

Mc GRAW-HILL  
**Radio Trade  
Catalog**

*Succeeding* THE RADIO TRADE DIRECTORY

# McGRAW-HILL RADIO TRADE CATALOG

*succeeding*  
THE RADIO TRADE DIRECTORY

Volume II November, 1926 Number 4

*A Consolidation of Condensed Catalogs  
of Radio and Allied Products*

*with a complete  
Classified Directory  
of the American Manufacturers  
of everything used in the  
construction, maintenance  
and operation of  
Radio Apparatus  
both Transmitting  
and Receiving*

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The Coal Catalog

## PREFACE

**I**T is with a considerable measure of satisfaction that we present this second edition of the McGraw-Hill Radio Trade Catalog, succeeding the Radio Trade Directory.

In the first edition it was our purpose to make this Catalog so comprehensive that it would be used to replace, to a large extent, bulky and disorderly catalog files, and to save the time and trouble of endless correspondence and delay in securing buying information.

This purpose was realized instantly upon the appearance of the first edition and evidenced by the thousands of acknowledgements expressing appreciation, many of them containing enthusiastic statements as to actual use being made of the book.

Users have told us of many cases in which the Catalog has saved them time and confusion in locating authentic and reliable sources of supply and enabled them to accept orders which they otherwise might have lost.

With this new edition the Catalog is completely revised and brought up to date—necessitating more than 3,000 changes in manufacturers' and products' listings, including changes of firm names, addresses, new products, etc. In addition, numerous changes have been made in the catalogs of manufacturers, bringing their buying data up to date in point of accuracy and completeness.

The Radio Trade Catalog has unquestionably established itself as an important factor in reducing the cost of distribution, simplifying not only selling but also buying. It is published to be of genuine worthwhile service to you and we cordially welcome any constructive criticism for its betterment.

*The Publishers*

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# MANUFACTURERS' CATALOGS

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*Condensed Catalogs of  
representative Manufacturers  
whose products are used  
in the radio industry*

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*Arranged according to  
principal product cataloged*

# ALDEN MANUFACTURING COMPANY

Advanced Radio Components

SPRINGFIELD, MASS.

Dept. D-7



## Na-Ald Adapters

The Na-Ald line of adapters plus the Na-Ald connectoralds fit any tube to any set. This is the one complete line, to fill every requirement. The scientific design insures utmost efficiency. Packed in individual cartons, fifty to a standard package, weighing 8 to 10½ lb.



No. 419X Adapter

**No. 419X Adapter**—For using small UX tubes in UV 201A sockets. A hardened steel screw in a brass bushing clamps the tube in a case. This case fits the regular UV 201A socket and supplies the side pin to hold the tube in place.

List Price .....\$ .35

**No. 421X Adapter**—For using UX tubes in WD 11 sockets. Especially suitable for Radiola III, IIIA and similar sets to take advantage of the improved characteristics of the UX 199 and UX 120 tubes. These sets can be brought up to date and greatly improved by using these tubes.



No. 421X Adapter

List Price .....\$ .75

**No. 429 Adapter**—For using UX 199 and C 299 tubes in storage battery sockets, both the old UV 201A and also the UX 201A, push type. Full surface, positive contacts are provided by plunger pads backed by music wire springs pressing against cross-overs moulded in place. Undesirable capacity is avoided by elimination of overlapping contacts and broad parallel surfaces.

List Price .....\$ .75



No. 429 Adapter

**No. 999 Adapter**—For using all UX tubes and also UV 201 A tubes in UV 199 sockets. Makes the UV 199 socket universal, to use any tube you wish. Used in sets equipped with the UV 199 sockets, and also in tube testers and rejuvenators.

List Price .....\$1.00



No. 999 Adapter

## Na-Ald Connectoralds

Install power tubes in any set without rewiring. The Na-Ald connectoralds fit the new UX 171, UX 112 and UX 120 power tubes to present sets without rewiring. They function as adapters, holding the tube in place, and at the same time provide

cables to attach the necessary B and C voltage direct to the tubes without necessitating a change in the wiring of the set.

These connectoralds can also be used to attach C battery only, where suitable B battery voltage is applied direct through the wiring of the set.

Na-Ald connectoralds in combination with the Na-Ald No. 300 Output unit described on the next page, will connect the high voltage direct from a B eliminator to the power tube. No change in the wiring of the set. At the same time, the Output Unit protects the speaker against damage from the high voltage of the eliminator and power tube, and improves the quality of reproduction.



No. 112 Connectorald

**No. 112 Connectorald**—For using UX 171 and UX 112 power tubes in UV 201A sockets. For maximum volume without distortion from storage battery sets, the use of a power tube with this connectorald is recommended. The connectorald is so designed that the tube is not raised in the socket, so that the power tube can be used even in sets with limited headroom.

List Price .....\$1.50

**No. 120 Connectorald**—For using UX 120 tubes in UV 201A sockets. This connectorald provides cables for attaching the necessary extra B and C batteries for this tube, used in the last stage. No. 419X Adapter fits the UX 199 tubes to the other UV 201A sockets in the set.

List Price .....\$1.25



No. 120 Connectorald

**No. 420 Connectorald**—For using the UX 120 tube in UV 199 sockets. This connectorald holds the tube at an angle to conform to the space requirements of the Radiola Superheterodyne Semi Portable, and the Radiola Super VIII. This connectorald can also be used to fit the UX 120 tube to almost all of the sets which have UV 199 sockets.

List Price .....\$1.25

**No. 920 Connectorald**—For using 120 tubes in UV 199 sockets. Holds the tube upright, and provides cables for attaching the necessary extra B and C batteries.

List Price .....\$1.25



No. 920 Connectorald

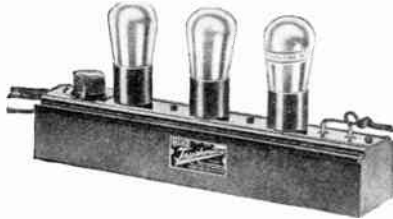


**Na-Ald Truphonic Amplifier**

Perfect audio amplification becomes at last a reality with Na-Ald Truphonic Amplification. Neither transformer, resistance, nor impedance coupling, this new balanced system recreates the original with a fidelity which can be conveyed by nothing short of actual demonstration.

**Truphonic Power Amplifier, No. 394**—Wired complete ready to attach to any set. This unit contains three Truphonic couplers, a Na-Ald Output Unit in a lacquered steel catacomb, with battery cable, sockets, special adapter and rheostat. Can be attached to any set in less than two minutes.

List Price .....\$20.00



Na-Ald Truphonic Amplifier

**Truphonic Catacomb Assembly, No. 306 and No. 307**—Complete audio assembly for the set builder. Three Truphonic Couplers and a Na-Ald Output Unit in a lacquered steel catacomb, with a special moulded cover plate containing the sockets for the entire set. A great advance toward perfect re-creation combined with simplified construction and improved appearance.

List Price

No. 306 for six sockets, 12½ in. long.....\$20.00  
No. 307 for seven sockets, 14¾ in. long..... 22.00

**Individual Truphonic Couplers, No. 301**—Couplers with mounting brackets.

List Price, per stage.....\$5.00

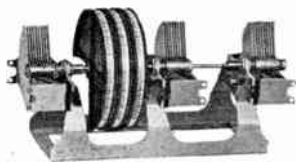
**Na-Ald Output Unit**

The Na-Ald Output Unit, No. 300, is a choke and condenser type filter which protects the speaker from damage when using power tubes. Even with the most powerful tubes, the direct current is kept out of the speaker entirely, preventing the speaker from burning out or demagnetizing, and at the same time improving quality.

List Price .....\$5.00

**Na-Ald Localized Control Condenser**

Control under the finger tips of one hand, without the complications and inefficiency of single control is attained with Na-Ald Localized Control. All the condensers may be moved together, or each one may be operated independently. No complicated gears nor frictions to introduce backlash.



Na-Ald Localized Control Condenser

List Price

No. 2172 Double, .000375 mfd..... \$8.00  
No. 2173 Triple, .000375 mfd..... 10.00  
No. 2174 Quadruple, .000375 mfd..... 15.00  
No. 2170 Double, .000375 mfd. with tickler control. 10.00  
No. 2232 Double, .0005 mfd..... 10.00

The .0005 capacity is supplied in the double only.

**Na-Ald Sockets**

Na-Ald Sockets give a clean and perfect contact. These sockets are easily installed in new sets, and to replace sockets of other makes in present completed sets. There is a Na-Ald socket for every style of tube.

**Na-Ald Deluxe Socket No. 400**—For heavy duty service with the big, high voltage expensive tubes, use this heavy duty socket. Triple laminated, dual wipe contacts automatically clean corrosion from the tube prongs by simply twisting the tube in the socket. Generous proportions and spacing assure both mechanical strength and insulation safety for high voltages.

List Price .....\$ .75



Na-Ald DeLuxe Socket No. 400

**Na-Ald No. 481-XS Silencer Socket**—Perfectly cushioned for complete elimination of all kinds of tube disturbances. Free motion in all directions—sidewise, up, down, pivotally. Without doubt the finest socket made for UV 201A and all UX tubes. Special phosphor bronze triple locked contacts are held in constant tension, pressing firmly, strongly, flatly against the tube prongs, insuring permanent, quiet connections. Removable solder tabs extend for direct connection either above or below the panel.



Na-Ald No. 481-XS Cushion Mount Socket

List Price .....\$ .50

**Na-Ald No. 482-S Silencer Socket Button**—For mounting directly to the panel, the contact button and contacts of the No. 481-XS Silencer socket is supplied separate without the base. All the advantages of the resilient cushioning and perfect contact of the 481-XS socket are retained.

List Price .....\$ .35

**Na-Ald No. 401 Small-space Socket**—For all storage battery tubes.

List Price .....\$ .35

**Na-Ald Gang Socket**

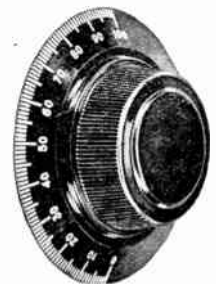
The latest development for manufacturers by the recognized leaders in socket manufacture. The cost of the complete socket strip, ready to use, is less than the cost of equivalent bare sub-panel. Very large economies in assembly costs, elimination of difficulties from servicing and repairs and adaptability to all conditions combine to make this form of socket ideal for manufacturing purposes. Recent improvements assure smooth positive contacts with UV 201A tubes as well as those with UX bases.

**Na-Ald Dials**

A complete line of Na-Ald true running dials and knobs are manufactured to fill every requirement.

**Na-Ald Super DeLuxe Dial, No. 3044**—Patented construction with positive gripping set screw in brass bushing. Large knob, ¼ in. shaft. Made both clockwise and counter-clockwise. Packed in individual cartons, 50 to a standard package.

List Price .....\$ .75



Na-Ald Super DeLuxe Dial No. 3044



Na-Ald Rheostat Knob No. 3844

**Na-Ald Rheostat Knob No. 3844**—Diameter 1½ in. for ¼ in. shaft.

List Price .....\$ .20

**Pointer Knob, No. K3674P**—Diameter 2¾ in.; pointer swings on a 3 in. circle.

List Price .....\$ .30

# AALCO RADIO LABORATORIES, INC.

1912 South Wabash Avenue

CHICAGO, ILL.

DISTRIBUTORS

R. F. HARTLEY SALES Co.  
99 Bedford St.  
BOSTON, MASS.

F. J. KYSELA  
2005 E. 15th St.  
KANSAS CITY, MO.

BLANCK & CARRIER Co.  
115 W. 63rd St.  
NEW YORK, N. Y.

BORDEN & MOYNELLA  
1836 New York Ave., N. W.  
WASHINGTON, D. C.

M. A. WETMORE  
1324 Hibernia Bank Bldg.  
NEW ORLEANS, LA.

A. M. MURTON Co.  
Chronicle Bldg.  
SAN FRANCISCO, CALIF.

S. H. STOVER Co.  
Century Bldg.  
PITTSBURGH, PA.

SHAPLEIGH SHOE Co.  
701 A. O. U. W. Bldg.  
LITTLE ROCK, ARK.

## Products

Aalco Loop Aerials, Aalco Shielded Coils, and special receiving sets for the jobber trade for sale under their own trade names.

## Aalco Loop Aerials

Tested products, guaranteed for life. Popular for their attractiveness, compactness and artistic design. Great area within the smallest possible space gives extreme distance. Directional effect and selectivity exceptional. Quickly adjusted to any position. Inductance variable, making dial matching simple. High frequency resistance greatly reduced by absence of sharp corners.



**Specifications**—Height, folded, 22 in.; height, normal, 30 in. Weight, 4½ lb. Genuine walnut; felt-bottomed base. Wave length range, 180 to 570 meters. Metal parts of highly nickel-plated brass; 64-strand low resistance wire.

**Aalco Loop Type No. 5**—For superheterodyne and other circuits using .0005 variable condensers.  
List Price.....\$12.50

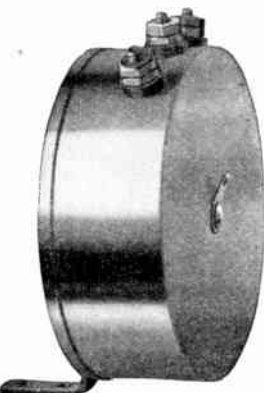
**Aalco Loop Type No. 35**—For tuned radio frequency, Neutrodyne, Browning-Drake and other receivers using .00035 variable condensers.  
List Price.....\$12.50

## Aalco Shielded Coil

A highly efficient, totally shielded coil that increases selectivity and improves distance reception to a remarkable degree. No direct pickup between the broadcast station and interference.

Its small size, 3 in. by 1½ in., lends the coil to the most compact arrangements. Can be mounted in any position. Easily adaptable to old sets. Highly nickel-plated finish. Sold singly or in kits.

List Price .....\$2.00



# MATHIESEN-SANDBERG COMPANY

5249 Ravenswood Ave.

CHICAGO, ILL.

## Collapsible Loop Aerial

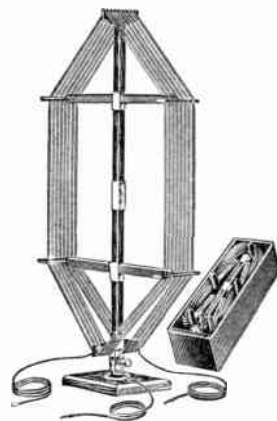
### Mathiesen Collapsible Loop Aerials

Our loop aerials are among the best manufactured. The designs do not require as much space in which to swing as do square loops. They are ideal for the home, have large volume and are very directional. Work splendidly on superheterodyne circuits.

### Baby Console Loop

Made of solid walnut with trimming of gold-plated metal parts. The arms are insulated and made of Bakelite. It has our special green silk-covered wire wound in single turns. Has three taps. Dimensions, set up, 30x14 in. Can be folded in box 15x4x5 in.

List Price  
\$12.50

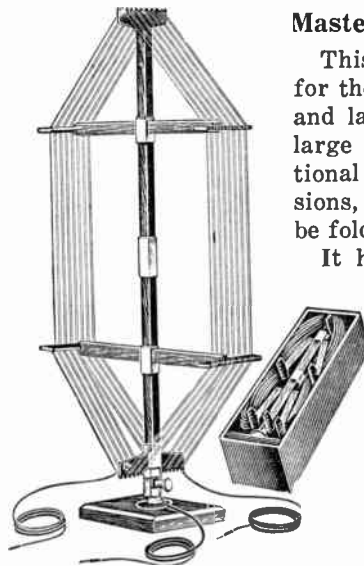


### Master Console Loop

This loop aerial is made for the use of experimenters and laboratories. Has very large volume with exceptional selectivity. Dimensions, set up, 40x21 in. Can be folded into box 22x4x5 in.

It has our special green-silk covered wire wound in single turns. Frame of solid walnut, with gold-plated metal parts and Bakelite arms. Has three taps.

List Price  
\$12.50



If your jobber cannot supply you with these aerials write us. We will give the name of our nearest jobber who can do so.

Jobbers are invited to apply for discounts.

*We manufacture loops only, therefore they must be good.*



# BEEDE ELECTRICAL INSTRUMENT CO.

Sales Office

136 Liberty St., New York, N. Y.

FACTORY: PENACOOK, N. H.

## Beede Battery Meters

**Type No. 206 Voltmeter**—0-50 volts. Used for determining the voltage or pressure of 22½ or 45-volt "B" batteries.

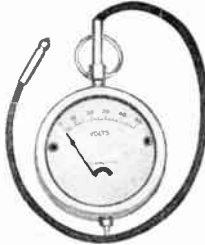
List Price .....\$1.25

**Type No. 209 Voltammeter**—0-50 volts; 0-50 amps. Used for testing voltage of "B" batteries, also the current of dry cells.

List Price .....\$1.50

**Type No. 101 Ammeter**—Used for testing dry cells only.

List Price .....\$0.90



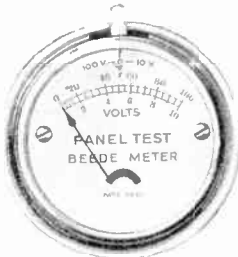
**Type No. 211 Storage Battery Tester**—This meter is designed for testing all 3 cells or individual cells of a six-volt storage battery. Tells the condition of the battery showing when to charge and when to stop.

List Price .....\$1.50

## Paneltest No. 400

A two-scale panel meter reading 0-10 volts and 0-100 volts. This meter is provided with a switch which controls readings of both "A" and "B" batteries. Overall dimensions, 2½ in.

List Price .....\$4.00



## Paneltest No. 303

Furnished either as an ammeter or a voltmeter. This is a handsome little instrument and greatly adds to the appearance of any set. Overall dimension, 1½ in.

0-10 volts. List Price ...\$2.50

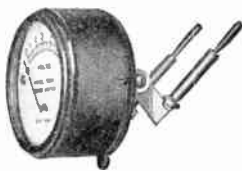
0-100 volts. List Price ...3.00

0-5 amperes. List Price .. 2.50

## Swivel Jack Meter

Designed for use on Radiolas, Victor and Brunswick Superhets. This meter may be adjusted to any angle and is provided with switch so that it may be disconnected from circuit if desired.

List Price .....\$3.00



All Beede Meters are accurate and guaranteed. Sold through the jobber. Catalog furnished upon request.

# WESTON ELECTRICAL INSTRUMENT CORP.

157 Weston Avenue,  
NEWARK, N. J.



## Model 506 "Pin-Jack" Voltmeter

Plugs directly into pin-jacks mounted on Radiola, Victor, Brunswick and Bosch sets. Dial has red line at 3-volt mark. Turn battery-setting knob until voltmeter pointer reaches this mark—it then operates at critical tube filament voltage for best reception, long tube and battery life and economical operation.

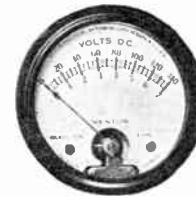


## Model 506 "Pin-Jack" Voltmeter with High Range Stand

Same plug-in utility as "Pin-Jack" Voltmeter—but made in 2 double-range combinations (160-4 and 160-8 volts) for use with High Range Stand. Simply remove voltmeter from panel and plug into High Range Stand; battery voltages measured up to 160. Equipped with two 30-in. flexible cables for battery testing or locating circuit troubles.



## 2-Inch Model 506 Voltmeter and Weston Universal Bi-Polar Switch



A new and remarkable combination having universal application to all sets. Consists of a Weston 2-in. Voltmeter with double scale (140-7 volts) and a 9-point bipolar switch. Resistance for high



range of instrument contained in housing of switch. An example of its remarkable application is its use on a 5-tube neutrodyne set where it closely regulates filament voltage of radio frequency tubes, detector tube, first and second audio frequency tubes, and checks voltage of "A," "C" and "B" Batteries. This combination thus makes a complete electrical check of any set by a simple turn of switch. Readily installed by any amateur.

## Radio Plug

Smooth and instantaneous in action; positive grip, Beauty of design and finish mark it as a typical Weston product. Its tremendous national demand makes it one of radio's outstanding sales successes.



## Model 489 Radio Table Voltmeter

A high resistance instrument beautifully made with a strong Bakelite case. Portable, accurate and dependable. Range combination (150-7.5 volts) an ideal all-purpose voltmeter for checking filament and grid voltages, locating troubles, testing new hook-ups, improving reception and materially increasing useful life of tubes. Pin-jacks and two cables furnished to connect filament circuits to panel so that voltmeter may be plugged in at will.



# THE W. G. NAGEL ELECTRIC COMPANY

511 Hamilton Street  
TOLEDO, OHIO



*Also Manufacturers of Dry Cell Testers, Ammeters, High-Resistance Voltmeters and Voltammeters, and Bakelite Hot Moulded Insulations.*

## Nagel Radio Battery Measuring Instruments

Nagel Radio Battery Measuring Instruments are the product of a firm whose entire effort during the past quarter of a century has been devoted to manufacturing precision measuring instruments for the au-

tomotive industry. The fact that Nagel Ammeters and Oil and Gasoline Gages are standard equipment on many of America's motor cars is proof of the quality and workmanship to be found in Nagel Radio Battery Measuring Instruments.

### Catalog No. 41 Dry Cell Tester 0-35 Amperes List Price, \$1.00



The Nagel Dry Cell Tester is an adaptation of the Nagel Automobile Ammeter, of which over six million are now giving daily service. The most accurate means of testing the strength of dry cells is by the short-circuit method. Other than the fine

quality to be found in this Nagel instrument, there is a distinct advantage in having a tester which reads two ways. The user cannot ruin this instrument by transposing the contacts.

### Catalog No. 22 Voltmeter 0-50 Volts, 60 Ohms per Volt List Price .....\$3.00

The first essential in a radio "B" battery measuring instrument is high resistance. This Nagel Voltmeter combines protection against battery drainage and long, accurate service due to its low temperature coefficient. The standard for high resistance in voltmeters is 60 ohms per volt. The Nagel policy prohibits the manufacture of a voltmeter of lower resistance.



### Catalog No. 23 Voltmeter 0-50 Volts 0-10 Volts List Price .....\$4.00

This double-scale Nagel Voltmeter is particularly designed and recommended for "B" and "C" battery reading. Nagel standard high resistance—60 ohms per volt—is embodied in this instrument, affording the user utmost protection against battery drainage, whether employing

the touch contact method or under continuous service.



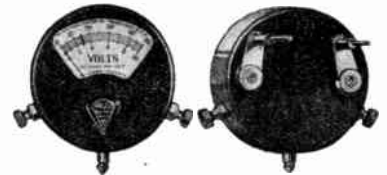
### Catalog No. 62 Voltammeter 0-50 Volts 0-30 Amperes List Price .....\$4.00

Both "A" and "B" batteries may be tested with this combination instrument. All the desirable features of Nagel individual meters have been adhered to and incorporated in the 62 Voltammeter. The resistance of the voltmeter scale—1,750 ohms—is high and will prevent serious damage to "B" batteries in testing. Unusual accuracy is offered on the ammeter scale. An exceptionally fine instrument for the experimenter or the man who enjoys building his own sets.

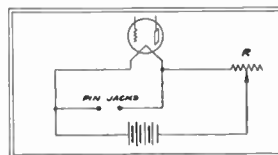


### Catalog No. 25 Pin Jack Voltmeter 0-50 Volts, 0-10 Volts List Price .....\$5.00

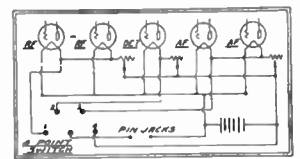
This combination instrument embodies every feature of the Nagel No. 23 Voltmeter plus the pin jack feature which renders it instantly adaptable for filament voltage regulation on all the Victor, Brunswick and Radiola sets. It insures maximum reception and tube life, possessing Nagel 60-ohms-per-volt high resistance. Never before has the radio amateur been offered an instrument of this character.



For the convenience of owners of sets not equipped with pin jacks, the diagrams below show how the meter may be adapted under different conditions.



Pin Jack Connections Where Voltages are Controlled by Common Rheostat



Pin Jack Connections Where More than One Rheostat is Used

# THE STERLING MANUFACTURING CO.

Radio Devices and Small Electrical Instruments

Factory and Main Office

2831-53 Prospect Avenue, Cleveland, Ohio

SALES REPRESENTATIVES IN ALL LEADING RADIO, AUTOMOTIVE AND ELECTRICAL JOBBING CENTERS

## Sterling Radio Equipment

Sterling Radio Equipment is divided into two main groups, Radio Care-Takers and Radio Inspectors, and each device is designed to make servicing of the radio set simple and accurate for the layman.



"Sterling" as a name for electrical instruments has been known since 1906 and ever since the birth of radio, Sterling Radio Equipment has been extensively advertised.

### Pocket Meters



Ammeters, voltmeters and volt-ammeters in capacities for every radio requirement. Correct calibration; durable. Full nickel finish. All show polarity.

List Prices .....\$1.00 to \$3.00

### Panel Meters



Ammeters, milliammeters and combination voltmeters, with or without built-in push buttons for mounting in receivers, battery chargers and tube testers. Back clamp mounting, nickel rims, silver dials. All capacities.

List Prices ..... \$3.00 to \$6.00



### R-25-28 Filament Voltmeter

Filament voltmeters for Radiolas No. 25 and No. 28. High resistance. Floating terminals. Silver dials, full nickel finish.

List Price .....\$6.00

### R-32 Charge Indicator



Shows whether battery needs charging or when it has been charged enough. Places current load on battery greater than drawn by all tubes in any set. Gives true reading of a battery's ability to operate receiver. Full nickel finish.

List Price .....\$2.00

### R-411 Tube Tester



A home tube tester which plugs into set and shows whether tubes are in "good," "fair" or "poor" operating condition. No computations to make. For large or small tubes.

List Prices .....\$7.50 to \$8.50

### R-406 Universal Tube Tester



Plugs into set and tests condition of tubes, also "A" and "B" battery voltages. Locates defective wiring, open transformers, poor contacts in sockets, etc. Ideal for service work.

List Price .....\$18.00

Sterling parts for set builders include: Adjustable Microcondensers \$1.00 and \$1.50. Full Range Audio Transformers \$1.75 and \$6.00. Soft Tread Rheostats and Potentiometers \$1.25 and \$2.00.

### R-111 Bulb Type Battery Charger

For radio "A" and up to 96-volt "B" battery charging. Equipped with Sterling ammeter. Snap switch gives instant change from "A" to "B" charging. Noiseless. Uses 2-ampere bulb. Dark green finish.

List Price, with bulb.....\$18.00



### No. 900 Vibrating Type Battery Charger

A high rate charger for "A" batteries. Average rate, 5 amperes. Sterling meter equipped. No possibility of overcharging. Black enamel finish.

List Price, 110 volts .....\$15.00

List Price, 220 volts .....\$17.50



### R-101 Bulb Type Trickle Charger

An a.c. 110-volt, 1-ampere bulb trickle charger. Equipped with automatic switch for battery charging or set operation. Indicator shows "off" or "charging." Operates with either 6-volt battery at 1/2-amp. rate or 4-volt battery at 1/4-amp. rate. Compact, convenient, automatic.

List Price, with bulb .....\$14.00



### R-403 Tube Reactivator

Will renew thorium coated filament in tubes, including No. 301-A and No. 171 types. Meter equipped to show when tubes need treatment and how good they are afterward. Adapter for small tubes included.

List Price .....\$12.50

Midget model for both large and small tubes, not encased nor meter equipped.

List Price .....\$3.75



### R-99 B Power Current Supply

This powerful Raytheon tube "B" eliminator supplies 180 volts at 50 milliamperes on high tap. Operates power tubes without hum. Detector voltage range, 10 to 80 volts. Medium voltage range, 25 to 135 volts.

List Price .....\$45.00

Model R-97—In addition to above voltages, has two C voltage taps, supplying 40 volts of C for power tubes and 3 to 9 volts of C for other tubes respectively.

List Price .....\$55.00





# WESTINGHOUSE ELECTRIC & MFG. CO.

EAST PITTSBURGH, PA.

BROADCASTING STATIONS

KDKA

WBZ

KYW

KFKX

## Voltmeters and Ammeters for Radio

Westinghouse Electric and Manufacturing Company makes instruments which can be depended upon for testing batteries, measuring filament and plate voltage or current, and for all other radio testing purposes. Ammeters, milliammeters, voltmeters and millivoltmeters are available with single, double or triple scales and at list prices varying from \$1.00 up.



## Cabinet Portable Voltmeter



The Cabinet Portable voltmeter is supplied in two ranges, 5 and 50 volts, and 5 and 150 volts. It is provided with standard terminals so that it may be used as an ordinary portable voltmeter, but its big feature consists of adjustable pin jacks by which it may be plugged in on the Radiola 20, 25, 28, the

Brunswick or Victor superheterodyne sets or any other radio set provided with pin jacks. A special lead is provided so that with the 0.5 and 150-volt voltmeter, B voltage on the Radiolas may be measured without even lifting the lid of the set. All that is necessary is to plug in the special lead on the stage jack. The case of the instrument is of the same black molded composition that has proved so successful in all Westinghouse portable instruments. The face plate is of a beautiful art-bronze finish and the whole voltmeter is designed to be in perfect harmony with fine radio cabinets or other pieces of furniture in the radio fan's home.

List Price ..... \$6.50  
List Price, West of Rockies to Pacific Coast ..... 7.00

**5 Volts and 50 Volts, Portable**—This direct-current, high resistance and efficient moving-vane voltmeter is adapted to testing filament volts, "C" volts and "B" volts, and is provided with nickel rims and white dials with black figures. Black rims and black dials with white figures will be furnished upon request. The attractive black moistureproof and acidproof molded case with insulated terminals is approximately 2 3/4 x 2 3/4 x 1 1/2 in. Two 3-ft. leads with special terminals to insert in the voltmeter jacks provided on many sets are supplied.



List Price ..... \$5.00

**50 Volts and 50 Amperes, Portable**—This is a highly efficient, low loss, moving-vane, direct-current, double utility, voltmeter-ammeter. The same moisture and acidproof molded case as described above is used. The standard finish is nickel rim, white dial, and black figures; others are available. A special testing lead together with a mounting bracket which may also be used as a terminal is part of the equipment.



List Price ..... \$5.00

**7 1/2 Volts and 150 Volts, Portable**—This high resistance, double range instrument of unusual accuracy, has a D'Arsonval movement provided in most expensive instruments. The case is of highly polished, black moistureproof and acidproof molded, approximately 2 3/4 x 2 3/4 x 2 in. To make the readings unusually accurate the dial has a mirror, while the face is tilted upwards to facilitate readings. Two 3-ft. leads with special terminals for inserting in voltmeter jacks provided on many sets are supplied. The voltmeter is ideal for measuring all ordinary direct-current voltages.



List Price ..... \$10.00

**Instruments for Panel Mounting**—All of the Westinghouse portable instruments are also available for mounting on panels. In general, the prices are somewhat lower for the panel type. Send for Booklet F 4695 for further information.

**Special Jack**—A special jack, which may be used in the measurement of different set voltages, is available.

List Price ..... \$0.75



## Micarta for Radio Panels

The good machining qualities, excellent appearance, high insulating qualities and permanence of Micarta, make it an ideal material for radio panels. Because of its homogeneous structure and strong bond, Micarta can be engraved with great facility, giving sharp, clear characters. It can also be drilled, tapped and punched without tearing away edges of holes.

Micarta panels have a deep, glossy finish similar to that of hand finished furniture. The absence of surface enamel enables those who prefer a matte or satin finish to obtain it merely by rubbing the panel lightly with fine emery cloth or sandpaper and then with oil.

Micarta is impervious to oil and water and does not react with common acids. These qualities make it well adapted for either the portable or the parlor set.

Micarta panels for radio are enclosed in special envelopes in which are printed complete instructions for drilling and finishing. The following finishes are available on all sizes of panels—black, No. 429, mahogany, No. 801, walnut grain, No. 805, and walnut burl, No. 804.



### STANDARD PANEL SIZES

Size, inches	Aprox. wt. per panel, lb.	List Price per Panel
7x 9x 3/4	.59	\$1.50
7x 12x 3/4	.79	1.97
7x 18x 3/4	1.18	2.95
7x 21x 3/4	1.40	3.45
7x 24x 3/4	1.60	3.95

# LUNDQUIST TOOL & MFG. CO.

WORCESTER, MASSACHUSETTS

## Yankee

### Yankee Meters

Yankee Meters represent the highest point of refinement in electrical instrument design. They are sturdy in construction and unsurpassed in workmanship, extreme care being taken in the manufacture and assembly of each part.

All Yankee Meters are carefully inspected and tested before leaving our factory. They are fully guaranteed as to workmanship and accuracy and may be depended upon to give satisfactory service. Heavily nickel plated and highly polished with mirror finish.

All Yankee Meters have a special feature in the regulator, which permits adjustment of hand back to zero for accuracy.

Packed in individual boxes; 100 to a carton



No. 108

#### Yankee Volt-Ammeter

An instantaneous reading meter for testing B batteries and dry cells. Not for permanent use in circuits. Readings may be taken irrespective of polarity of both battery or meter.

0 to 50 volts; 0 to 50 amperes.

List price.....\$1.50

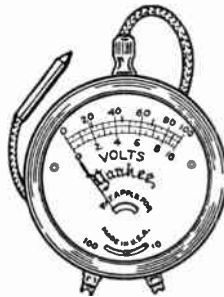


No. 116

#### Yankee Hi-Dro-Meter

For testing 6-volt storage batteries. Indicates condition of battery, and tells when and how long to charge.

List price.....\$1.50



No. 112

#### Yankee Dual Voltmeter

For checking filament voltage, also A, B and C batteries, either storage type or dry cells.

0 to 10 and 0 to 100 volts.

List price.....\$2.50

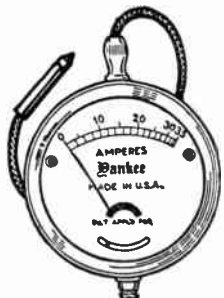


No. 101

#### Yankee Voltmeter

Scientifically designed for measuring B battery voltage. Has a dial with two heavy lines indicating 22½ and 45 volts.

0 to 50 volts.  
List price.....\$1.25



No. 104

#### Yankee Ammeter

For testing dry cells. Controlling springs are of special phosphor bronze which insures permanent accuracy.

0 to 35 amperes.  
List price.....\$1.00

# ELECTRIC SERVICE SUPPLIES CO.

17th and Cambria Streets

PHILADELPHIA

NEW YORK  
50 Church St.

CHICAGO  
Illinois Merchants  
Bank Bldg.

PITTSBURGH  
Bessemer Bldg.

BOSTON  
88 Broad St.

SCRANTON  
316 N. Washington Ave.



### Keystone Radio Lightning Arresters



Approved by The National Board of Fire Underwriters. A strong, sturdy, reliable protector designed to relieve antenna system of dangerous accumulations of static or lightning.

Air gap type. Body of genuine Bakelite, heavy brass binding posts molded integrally in upper and lower sections; rugged discharge electrodes are inside the body, where they are in an absolutely water, damp and dustproof enclosure and so located that any change in their relative positions is practically impossible.

The electrical characteristics leave little to be desired; the body of moulded Bakelite affords the highest grade of insulation between antenna and ground, and consequently causes no loss in strength of incoming signals; the discharge electrodes are of the "high speed" type, affording almost instantaneous breakdown to high voltages appearing on antenna and consequently the utmost protection to receiving apparatus; the heavy binding posts and discharge electrodes result in an arrester which has a very high discharge capacity; and the manner of assembly assures immobility of discharge electrodes, with a consequent maintenance of initial operating characteristics.

Binding posts are provided with wings for securely retaining antenna and ground wires; accommodate up to a No. 12 B. & S. stranded wire. Individual display cartons.



The binding posts are of approved type in that the wire can not escape from under the screw. Another important feature of these binding posts is found in the fact that the antenna and ground wires can be placed under the screws without cutting the wire. Note in the illustration, how the antenna lead can be run to the lightning arrester and continued on to the set without cutting the wire. It is unnecessary and inadvisable to connect two wires at the arrester.

Weight Complete, oz.	Cartons to Pkge.	Wght. of Pkge., lbs.	Retail Price, each
7	48	27½	\$1.50

# DIAMOND ELECTRIC SPECIALTIES CORP.

101 South Orange Ave., Newark, N. J.



## Battery Perfection is Never the Result of Accident

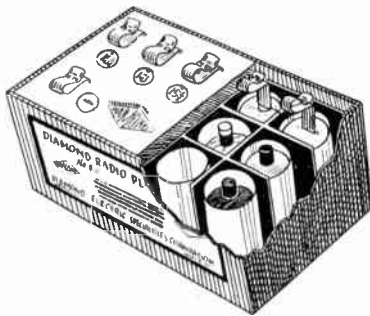
Before Diamond "B" Batteries were put on the market a chemist and electrical engineer of national reputation spent three years of hard, practical laboratory work in producing a "B" Battery that is as near perfect as a "B" Battery can be made.

The formula thus perfected has been tested under the most rigid conditions by the greatest scientific laboratory in the world, and passed with flying colors.

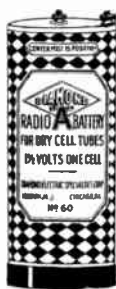
Inquiries from retailers solicited.

Each 45-volt battery is composed of 30 individual cells. Each cell consists of the following:

One zinc can (seamless), one carbon stick around which is moulded a mixture of manganese, graphite and sal ammoniac. This is wrapped by hand in a special material and tied tightly, which keeps it from breaking and causing a possible internal short circuit. This unit composes the positive element of the cell, and is called the "bobbin." It is placed in the seamless zinc can and electrolyte is poured around it. On top of this is placed a washer and the cell is then hermetically sealed with a prepared wax. The individual cells are assembled in a box and carefully separated by waterproof containers. They are then connected electrically with more than 60 soldering operations. At each step in the manufacture, tests are made and each operation is double checked and inspected. All this is done by hand by skilled workers trained up to Diamond standards of thoroughness and quality.



No. B-20



No. A-60

No.	Voltage	Length, In.	Width, In.	Height, In.	Weight	List Price
B-20	45	7 7/8	6 3/4	4 3/8	12 lb. 8 oz.	\$4.75
B-2	45	8	6 5/8	3	8 lb. 11 oz.	3.75
B-6	45	8 1/8	3 1/4	7 1/8	9 lb.	3.75
B-1	22 1/2	6 3/8	4	3	4 lb. 8 oz.	2.00
B-8	22 1/2	3 1/4	2 3/4	6	2 1/2 lb.	1.75
B-5	22 1/2	4	2 1/2	2 3/4	1 lb. 9 oz.	1.75
B-4	22 1/2	3 1/4	2 1/2	2 1/2	1 lb.	1.50
C-3	4 1/2	4	1 3/8	3 1/4	14 oz.	.60
A-60	1 1/2			6	2 lb. 1 oz.	.40
		Diameter, 2 1/2				

# DRY STORAGE BATTERY CORP.

213 South Broad Street  
PHILADELPHIA, PA.

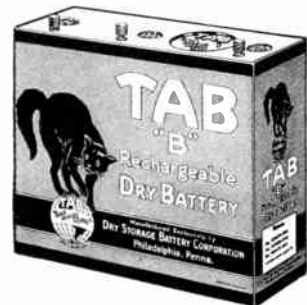
# TAB

## The Dry "B" Battery That Is Rechargeable

The most revolutionary advance in battery construction since the original discovery of the dry cell.

Tab "B" has longer original life than the average good dry battery plus a rechargeable feature that multiplies its life from six to eight times.

You can recharge this dry "B" battery with any ordinary charger, either by using direct or alternating current, to its full original strength six or eight times at a cost of approximately 1 1/2c. per recharge.



The cat has been adopted as the trade-mark for TAB batteries because tradition has always attributed many lives to the cat. This characteristic is even better exemplified in TAB batteries, as they literally "have many lives."

There is a real demand for TAB batteries—a demand that is natural and spontaneous because they have at least 6 times the life of the ordinary dry battery at a trifle greater cost.

Forty-five volt upright (30 cells)

Complete information upon request.

List Price.....\$4.50

## Elaborate Schedule of National Advertising

The personnel of the Dry Storage Battery Corporation includes men of wide experience in manufacturing and sales promotion. This organization has ample financial resources to carry out the elaborate schedule of advertising, including national publications and local newspapers, that has been planned for the next two years.

A full line of very attractive window trims, counter cards, circulars, etc., will be furnished the dealer.



# NATIONAL CARBON COMPANY, INC.

Executive and General Sales Offices  
30 East 42nd Street, New York, N. Y.

ATLANTA      CHICAGO      KANSAS CITY      DISTRICT OFFICES      LONG ISLAND CITY      LOS ANGELES      SAN FRANCISCO

## Eveready Radio Batteries

National Carbon Company manufactures, under the trade name Eveready, a complete line of radio "A," "B" and "C" batteries. "B" batteries fall into three broad classifications,—portable, large and heavy duty. In each class there is a pre-

# EVEREADY

## Radio Batteries

—they last longer

requirements or fit in the cabinets of certain receivers which will only accommodate this type.

ferred or *standard* type of battery, best suited to the conditions generally encountered in service. In addition to the standard "B" batteries, there are a number of *special* "B" batteries in each class which meet some special requirements or fit in the cabinets of certain receivers which will only accommodate this type.



No. 763



No. 768



No. 764



No. 766



No. 779

Dealers should keep in mind the fact that Eveready heavy duty batteries (No. 770 and No. 486) give twice the life of smaller and lighter weight batteries of equal voltage. They should, therefore, always be recommended where long life, maximum satisfaction and economical operation are considerations which outweigh the factor of low first cost.

Those "B" batteries, listed below, which are marked with an asterisk are *standard*. All other "B" batteries are *special*. Some of these batteries, it will be noted, are listed as being both "B" and "C" batteries, the battery being used as a "C" battery under special conditions. The letter in parenthesis indicates whether the battery is a portable, large or heavy duty type.

**Eveready Dry Cell Radio "A" Battery, No. 7111**—Developed by our laboratories especially for use with dry cell vacuum tubes. Full directions and diagrams for connecting Eveready No. 7111 Dry Cell Radio "A" battery for the various dry cell tubes are printed on the jacket of each battery. Diameter 2½ in., height 6 in.



No. 7111

List Price  
No. 7111 Radio "A" Battery... †\$. 50

*Dealers Note:* For further detailed information and trade prices, ask your jobber.

Catalog No.	Type	Voltage	Length In.	Width, In.	Height, In.	Weight	Last Price, Each
763	B (P)	22½	3½	2½	2½	13 oz.	†\$1.50
768	*B or C (P)	22½	4½	2½	2½	1 lb. 9 oz.	1.75
764	B (P)	22½	3½	2½	5½	2½ lb.	1.75
766	*B or C (L)	22½	6½	4½	3½	4 lb. 10 oz.	2.00
779	B or C (L)	22½	4½	3½	7½	4½ lb.	2.00
767	B (L)	45	8	6½	3½	8 lb 11 oz.	3.75
772	*B (L)	45	8½	3½	7½	9 lb.	3.75
770	*B (H)	45	8½	4½	7½	13½ lb.	4.75
486	*B (H)	45	8½	4½	7½	14½ lb.	5.50
771	*C	4½	4	1½	3	14 oz.	.60

†List prices quoted are for anywhere in the United States.



No. 767



No. 772



No. 770



No. 486



No. 771

# The Electric Storage Battery Co.

*The World's Largest Manufacturers of Storage Batteries for Every Purpose*

Allegheny Avenue and 19th Street, Philadelphia, Pa.

IN CANADA: EXIDE BATTERIES OF CANADA, LIMITED, TORONTO

EXPORT SALES DEPARTMENT  
23-31 West 43rd Street  
NEW YORK, N. Y.

SALES-SERVICE STATIONS  
EVERYWHERE

## Exide RADIO BATTERIES

### Exide Radio Power Units



Exide  
Radio Power Unit  
Model 3-A-6-Volt

Newest and most convenient form of "A" battery power. Consists of a mahogany metal case containing a specially designed Exide storage "A" battery, directly connected to a special charger. Plugs in on house lighting circuit and is thus kept well charged at all times.

Exide Master control Switch (furnished separately) permits the Unit as well as "B" power supply to be placed anywhere, and controls both with a single movement of the switch lever. Units with self-contained switch also available. Both models made in 4 and 6-volt types.



Exide Radio  
Power Unit  
Model 3-A  
4-Volt

Cat. No.	Type	List Price
16384	**Model 3A (4-volt)	\$23.00
15872	*Model 2A (4-volt)	27.00
16386	**Model 3A (6-volt)	38.00
15867	*Model 2A (6-volt)	36.00
16812	†Master control switch	4.50

\*Has self-contained switch.

\*\*Switch is separate. Use Master Control Switch when required.

†For use with Model 3A type only.

### Exide "A" Batteries

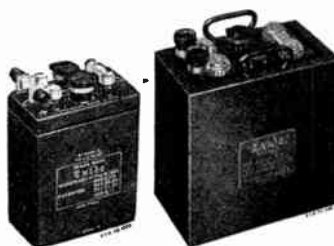


Exide  
6-Volt "A" Battery  
Type 3-LXL-9

**Six-Volt Types**—The outstanding six-volt battery in the radio field. Case, cell compartments and handles molded in one piece. Finished in glossy black, handsomely stippled. Attractive terminal posts and connectors. Plates, separators and operating characteristics of the highest Exide standard. Five sizes.

Cat. No.	Type	Capacity, Ampere hours	List Price
16450	3-LXL- 5-1	50	\$12.70
16451	3-LXL- 7-1	75	14.95
16452	3-LXL- 9-1	100	18.05
16453	3-LXL-11-1	125	21.00
16454	3-LXL-13-1	150	24.30

**Two and Four-Volt Types**—Designed for low voltage tubes. Two 2-volt and two 4-volt types.



Type 2-KZR-3      Type 2-LXL-5  
Exide 4-Volt Batteries

Types 1-KZR-5 and 1-LXL-9 are the 2-volt types with composition and wood cases respectively; for use with WD-11 and WD-12 tubes.

Types 2-KZR-3 and 2-LXL-5 are the 4-volt types with composition and wood cases respectively; designed for use with UV-199 or similar 3.5-volt tubes.

Cat. No.	Type	Capacity, Ampere hours	List Price
14230	1-KZR-5	24	\$ 5.30
15071	1-LXL-9	100	7.90
14231	2-KZR-3	12	6.35
13920	2-LXL-5-1	50	10.20

### Exide Rectifier

This compact rectifier enables anyone to charge his own "B" batteries at home from the usual 115-volt, 60-cycle a-c house-lighting circuit.

The jar is of glass, with a hard rubber top.



Exide  
Rectifier

Cat. No.	List Price
14881	\$2.80

### Exide "B" Batteries



Exide  
24-Volt "B" Battery  
Type 12-LR-2

Very dependable. Assembled in glass cells so that plates, separators and electrolyte are visible at all times. Extremely quiet in action. May be recharged over and over again at home, wherein lies their economy.

Made in two sizes, 24 and 48 volts, types 12-LR-2 and 24-LR-2 respectively.

Cat. No.	Type	Volts	List Price
15292	12-LR-2	24	\$10.15*
15293	24-LR-2	48	17.45*

Capacity of each type, 6,000 milliamper hours.  
\*Dry charged. Price includes necessary electrolyte, but not container for separate shipment or delivery.



# GOULD STORAGE BATTERY CO., INC.

250 Park Avenue  
NEW YORK, N. Y.

SALES OFFICES

CHICAGO, 32 W. Randolph St.

KANSAS CITY, 507 Land Bank Bldg.

SAN FRANCISCO, 1660 Pine St.

## Gould "AB" Unipower — Operated Automatically from the Radio Set Switch

Gould "A" and "B" Unipower can be used in combination or as separate "A" and "B" units furnishing current for the entire radio circuit, all controlled from the radio set switch. Unlike most combined "A" and "B" power units, Unipower "A" and "B" may be installed in the majority of cabinet type radio sets.



"AB" Unipower Supplies "A" and "B" power, controlled by the set switch.

## Gould "A" Unipower

Contains a noiseless Balkite charging cell of Gould design. Any good "B" eliminator may be used in combination with Unipower AC-6HA, which has an outlet provided for this purpose.



Type AC-6HA

AC-6HA—For operating storage battery types tubes. Is automatically operated from the radio set switch, and has in addition to an emergency

# Unipower

rapid charge four graduated trickle charge rates.

The AC-6HA is especially recommended for use on Atwater-Kent; All-American; American Bosch; Crosley; Eagle; Erla; Fada; Federal; Ferguson; Freed Eismann; Grebe; Howard; Kellog; Kolster; Murad; Pfanstiehl; Splitdorf; Stewart-Warner; Thompson; Zenith; Stromberg-Carlson (except 501, 502, 601 and 602). A special Unipower as standard equipment on Stromberg-Carlson sets is distributed exclusively by the Stromberg-Carlson Telephone Mfg. Co.

Dimensions: Length, 11 1/4 in.; vent pipe diam., 1 1/8 in.; width 7 1/8 in.; height, 10 in.; height to center vent pipe, 7 1/8 in.

List Price . . . . . \$42.50

AC-4—For Radiolas and sets using dry cell tubes or their equivalent. Has a normal trickle charge in addition to an emergency rapid charge rate and is controlled by Master Control Switch.

Dimensions: Length, 8 1/2 in.; vent pipe diam., 1 1/8 in.; width, 5 in.; height, 8 3/8 in.; height to center vent pipe 7 1/4 in.

List Price . . . . . \$33.00



Type AC-4 Supplied with separate master control switch.

## Gould "B" Unipower—ACB-135

May be used in conjunction with any source of "A" power supply, but is particularly designed for installation in connection with Gould "A" Unipower. Thoroughly tested and found absolutely fool-proof. Contains no exposed terminals and is equipped with a safety switch which automatically turns off all power when the cover is lifted.

The normal operating voltage of



Type ACB-135

Unipower "B" is 135 volts. The tube capacity is 60 mils, delivering 40 mils at 135 volts. The tube is guaranteed for one year. The entire unit is noiseless and is built in strict accordance with the recommendation of the National Board of Fire Underwriters.

Dimensions: Length, 11 in.; width, 5 1/2 in.; height, 7 in.

List Price . . . . . \$55.00

## Gould "A" Batteries

Assembled in rubber cases and ready for use, with carrying handle. Have the new standard terminals and are built to conform to standard capacity ratings.

Types	Capacities	List Price
R6-50	50 A.H.	\$13.25
R6-80	80 A.H.	16.50
R6-100	100 A.H.	19.00
R6-120	120 A.H.	22.50

# TOAZ ENGINEERING & SALES CO.

11703 Robertson Avenue, Cleveland, Ohio

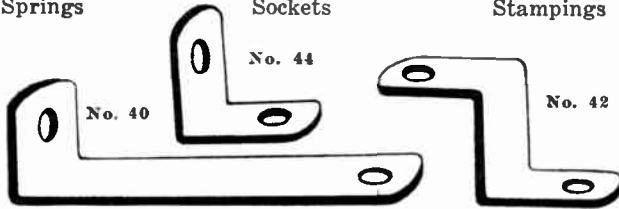


**Products**

Brackets  
Springs

Terminalugs  
Sockets

Dubbelugs  
Stampings



**Brackets**

We are prepared to make brackets to your specifications. Send blueprint or sketch for estimate.

No. 40. Brass.  $\frac{1}{2}$  and  $1\frac{1}{2}$  in. center of holes to corner. Suitable heavy stock. List Price per thousand.....\$21.00

No. 41. Same as No. 40, but heavily nickelplated and polished. List Price per thousand.....\$30.00

No. 42. "Z" bracket. Brass.  $\frac{1}{2}$  in. center of hole to corner.  $\frac{1}{4}$  rise. Suitable heavy stock. List Price per hundred .....\$ 3.00  
List Price per thousand..... 25.00

No. 43. Same as No. 42, but heavily nickelplated and polished. List Price per hundred.....\$ 3.75  
List Price per thousand..... 33.50

No. 44. "L" bracket. Brass  $\frac{1}{2}$  in. center of holes to corner. Suitable heavy stock. List Price per hundred.....\$ 2.10  
List Price per thousand..... 16.50

No. 45. Same as No. 44 but heavily nickelplated and polished. List Price per hundred.....\$ 3.00  
List Price per thousand..... 25.00



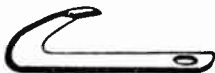
No. 60  
Dubbelugs

For No. 6 and No. 8 screws. Tinned copper.  $1\frac{1}{4}$  in. center to center of holes. Admirably serves the purpose of two lugs and some bus wire, besides saving soldering operations. Used to advantage for connecting and supporting mica condensers, etc. List Price per thousand ....\$12.00



No. 81  
Terminalugs (Gripfast Type)  
Patents Pending

One squeeze of the pliers fastens the wire. Tinned copper. For No. 6 and No. 8 screws. Grips the wire with a firm mechanical grip that permits the entire set to be wired more rapidly. Also used as a plain lug. Ease of assembling usually results in sufficient saving of time to more than pay for the cost of the Terminalugs. List Price per thousand .....\$5.00



No. 100  
Socket Springs

Phosphor bronze. Heavily nickelplated. List Price per thousand ....\$15.00



**Straight Side Dubbelugs**  
For No. 6 and No. 8 screws. Tinned copper. Furnished in 1 to 6-in. lengths ( $\frac{1}{2}$ ,  $1\frac{1}{2}$ , 3,  $4\frac{1}{2}$ ,  $5\frac{1}{2}$  and 6 in. center to center of holes). List Price per thousand inches.....\$6.00



(Plain Type)

For No. 6 and No. 8 screws. Tinned copper. For straightaway soldering where a mechanical joint is not required, the ease with which this lug solders is a constant source of pleasure. List Price per thousand .....\$4.50



No. 0199  
Socket Stampings

No. 0199 for 199 type tubes; Brass; heavily nickelplated. List Price per hundred .....\$ 22.50  
List price per thousand .... 185.00  
No. 0200 for 200 type tubes; Brass; heavily nickelplated. List Price per hundred .....\$ 18.50  
List Price per thousand .... 150.00

# THE AMERICAN BRASS COMPANY

General Offices

WATERBURY, CONNECTICUT

Offices and Agencies

NEW YORK  
DETROIT  
CHICAGO  
PROVIDENCE  
PITTSBURGH  
NEW ORLEANS

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PHILADELPHIA  
SAN FRANCISCO  
BOSTON  
CLEVELAND  
ST. LOUIS

Mills and Factories

WATERBURY, CONN. ANSONIA, CONN.  
KENOSHA, WIS. BUFFALO, N. Y.  
HASTINGS-ON-THE-HUDSON, N. Y.  
TORRINGTON, CONN.

In Canada

ANACONDA AMERICAN BRASS, LTD.  
NEW TORONTO, ONTARIO.



**Technical Service for the Radio Industry**

As the world's largest producers of copper and copper alloys, The AMERICAN BRASS COMPANY offers to manufacturers of radio parts and equipment the service of a technical staff having a background of more than a century's experience in the uses of Anaconda metals.

This service not only covers authentic information in regard to the chemical and physical properties of copper, brass and bronze but recommendations as to alloys and tempers best suited to various classes of work.

**Anaconda Products**

Anaconda Radio Bus Bars—Made of high conductivity Anaconda Copper, covered perfectly by a uniform coating of tin. Anaconda Radio Bus Bars bend easily and permanently without weakening or cracking the tin coating.

Anaconda Copper Antenna Wire is furnished single or stranded, tinned or untinned, on wooden reels or in 100- or 200-foot lengths in trade-marked cartons. Other Anaconda products include:

Silicon Bronze Stranded Antenna Wire.  
Magnet Wire and fine bare Copper Wire to be covered or enameled.  
Special Spring Wire for making delicate Coil Springs.

Sheet Brass for Stampings.  
Copper Condenser Plate stock.  
Phosphor Bronze for Clips and Flat Springs.  
Free Turning Brass Rods for Binding Posts and other fixtures shaped in automatic screw machines.  
Brass Tubing for Amplifiers and Detector Sockets.  
Copper and Brass Strips for lightning arresters and knife switches.

**Nation Wide Facilities**

Six mills offer a coast-to-coast service unexcelled for promptness and dependability.

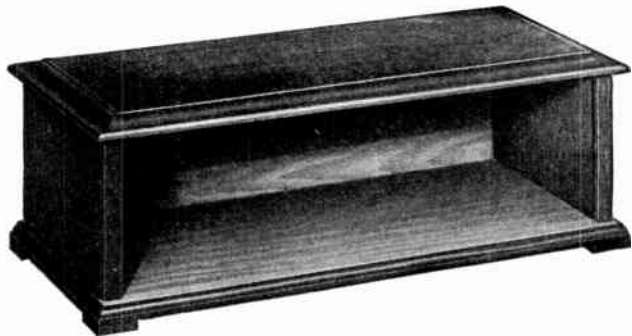
# EHLERT CABINET CO.

Factory and Office  
WAUKESHA, WISCONSIN

## High Grade Radio Cabinets

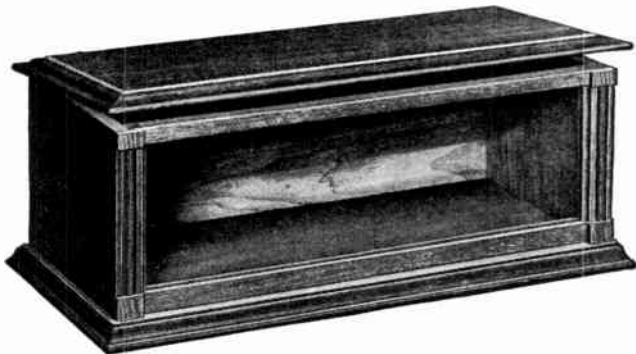
Cabinets for the Radio Trade in all the popular sizes. Send for catalog showing the complete Ehlert line.

Cabinets of special design made to order in production quantities for set manufacturers. Capacity 1000 cabinets daily.



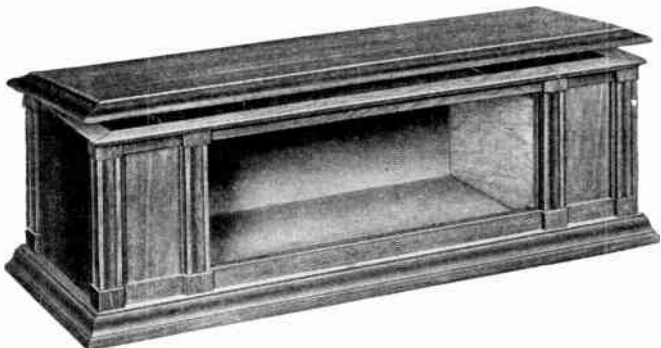
**Master**

A fine looking Cabinet, elegantly finished and sturdily built. In walnut or imitation walnut.



**Jewell**

A model beautiful in appearance, therefore well adapted for homes of refinement. In walnut only.



**B-Battery Super-Master**

A popular Ehlert Cabinet with "B" battery compartment. In walnut only.

# ELGIN PHONOGRAPH & NOVELTY CO.

ELGIN, ILL.

## Radio Consoles, Cabinets and Tables

A complete line of Radio Tables, Cabinets, and Consoles, including two consoles especially designed for Atwater Kent Receivers.

**De Luxe Console Model K**—Panels of 5-ply, highly figured butt walnut or diamond matched striped mahogany veneer; two-tone walnut or mahogany finish. Spacious instrument and battery compartments. Built-in speaker of finest spruce. Brass plated, ornamental hardware. Full length adjusters taking up to 30-in. panel, included unless panel size is stated. Overall size, 44 in. high, 34½ in. wide, 16¾ in. deep. List Price.....\$130.00

**Newport Console Model M**—Material description same as Model K, except in case design. Sides and top fancy figured mahogany or walnut; lower part and legs of gum-wood. List Price.....\$115.00



**De Luxe Console Model K**



**Newport Console Model M**



# EXCELLO PRODUCTS CORPORATION

4830 West 16th Street, Cicero, Ill.  
(Suburb of Chicago)



## Excello Radio Consoles

Excello Radio Cabinets and Consoles effectively combine beauty and Utility.

It would be difficult to find a more authentic harmony of line, mass and color than that which careful cabinet makers have evolved from highest quality materials in producing these consoles and cabinets.

Utility is served by affording adequate space for set, batteries and accessories and by providing an expertly designed tone amplifier chamber which gives exceptional results in tone production.

fying chamber which gives exceptional results in tone production.

Dealers find Excello Cabinets a popular and profitable line. Exclusive territory granted.



Style R-71

**Style R-71**—A wall console with tone chamber above the receiver. The top and amplifying chamber are hinged so as to permit ready access to the set when the top is raised. The panel space is 8 x 26 in. Filling pieces are provided when desired for smaller panels. Top, front and end panels are walnut.

Dimensions, 30½ in. wide, 16 in. deep 40 in. high.

List Price...\$55.00

**Style R-22**—This new console embodies our latest improvements. The tone chamber, constructed of seasoned wood with metal throat, is hinged as part of cover top above the receiver space. Receiver compartment accommodates set up to 8 x 32 in. Adjustable filler pieces provided for smaller sets. Has battery compartment below receiver space. Leaf for A battery pulls forward for easy testing or filling. Made of American walnut with 5-ply walnut veneer top and panels. Door panels of matched butt walnut. Highly polished two-tone walnut finish.

Dimensions, 37 in. wide; 16 in. deep; 40 in. high.

List Price...\$70.00



Style R-22

**Style R-26**—A wall console of graceful line with the tone chamber above the receiver space. The receiver compartment is equipped with adjustable panel which accommodates any set not exceeding 9 x 30-in. panel size. Ample battery compartment below receiver space. The top of the cabinet is hinged for easy access to the receiver parts when the top is raised.

Made of 5-ply walnut veneer top, walnut end panels and matched butt walnut door. Highly polished two-tone walnut finish.

Dimensions, 35 in. wide, 16 in. deep, 45 in. high.

List Price .....\$75.00

**Style R-23**—The latest perfected style of wall console with constructed, metal throat tone chamber above the receiver space. The design is such that a pure, undistorted tone of full volume is assured.

The receiver compartment is equipped with adjustable panels, so as to accommodate any set up to 10½ x 32 in. in size. Battery compartment, below the receiver space, accommodates A and B batteries and charger. The A battery sets on a sliding leaf which pulls forward for easy testing or filling.

Made of American walnut with 5-ply walnut veneer top and panels. Door panels are of matched butt walnut. Highly polished two-tone walnut finish.

Dimensions, 37 in. wide; 16 in. deep; 45 in. high.

List Price .....\$90.00



Style R-26



Note: The accompanying sketch illustrates the accessibility of all parts of Style R-23. This same accessibility is characteristic of the entire line of Excello Radio Consoles.



Style R-23

# BIRNBACH RADIO CO.

370 Seventh Avenue  
NEW YORK, N. Y.



### Birnbach Radio Battery Cable

Flexible stranded conductors for A, B and C batteries, assembled with soldered lug terminals to prevent loose battery connections. Separate solid colors in accordance with Radio Manufacturers Association, Inc., standards.

Packed in single carton.



No.	List Price
110. Five-conductor, 54 in.....	\$ .50
111. Six-conductor, 54 in.....	.65
112. Seven-conductor, 54 in.....	.80
113. Eight-conductor, 54 in.....	1.00
114. Five-conductor, 10 ft.....	1.25

### Birnbach Riga Radio Battery Cable

Flexible stranded conductors for A, B and C batteries, assembled with battery clips for the A battery and soldered lug terminals to prevent loose battery connections. Separate solid colors in accordance with Radio Manufacturers Association, Inc., standards.

Packed in single carton.



No.	List Price
100. Five-conductor cable.....	\$1.00
150. Five-conductor cable, 10 ft.....	1.60

### Birnbach Loud Speaker Extension Cord Unit

This extension cord permits moving the loud speaker any distance without disturbing the receiver. Additional pleasure may be had by using more than one loud speaker in the music-room, dining-room, bed-room, lawn or porch, all at the same time.

Packed in single carton.



No.	List Price
120. 20 ft. complete with connector.....	\$1.00
121. 30 ft. complete with connector.....	1.40
122. 40 ft. complete with connector.....	1.80
123. 50 ft. complete with connector.....	2.20
124. 100 ft. complete with connector.....	4.20
101. 20 ft. without connector.....	.65
151. Extension cord connector only.....	.30

### Birnbach Replacement Loud Speaker and Head Set Phone Cords

Packed in single carton.



No.	List Price
102. 5 ft. single loud speaker cord pin tips....	\$ .35
103. 5 ft. single loud speaker cord spade tips and pin tips.....	.35
104. 5 ft. double headset cord pin tips.....	.50
105. 5 ft. double headset cord spade tips and pin tips.....	.50

### Battery Connectors



No.	List Price
139. 3 in with loops on both ends.....	\$ .05
140. 6 in. with loops on both ends.....	.05
141. 8 in. with loops on both ends.....	.06
142. 12 in. with loops on both ends.....	.07



# CRESCENT BRAID, INC.

Makers of Premier "Blue Ribbon"  
Radio Cables and Cords  
PROVIDENCE, R. I.

## Products

Premier "Blue Ribbon" products include battery cables, telephone and extension cords for radio sets.

### Premier Battery Cable

Premier battery cable has been placed on the market to meet the demand of the radio owner who desires to eliminate the untidiness of the many wires about the set. It fulfills a long felt want by rendering a neater, cleaner and safer installation throughout.



For owners employing a cabinet or other means of locating batteries near set, our 5-ft. cable is recommended.

Each cable is made with five or more different colored

wires, each insulated with new code rubber and cotton braid. The separate conductors are encased in a strong braid covering, thus forming a single 5, 6, 7 or 8 wire cable as the case may be.

Cables are furnished with or without lugs in 5, 10 and 15 ft. lengths. For distant connections cable is furnished on 100-ft. reels.

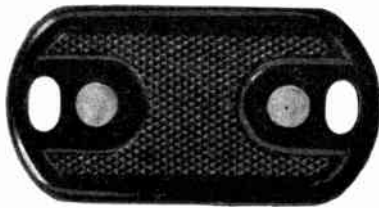
Special cables made on request.

#### List Price, 5-wire Cables Length, Ft.

	5	10	15
With storage battery clips.....	\$1.00	\$1.75	\$2.25
With lug terminals for dry cells. .75		1.50	2.00
With leaded ends.....	.60	1.15	1.65
List Price, per ft., 5-wire cable, on 100-ft. reel.....	\$ .10		
List Price, per ft., 6-wire cable, on 100-ft. reel.....	.12		
List Price, per ft., 7-wire cable, on 100-ft. reel.....	.14		
List Price, per ft., 8-wire cable, on 100-ft. reel.....	.16		

### Extension Cords

Designed for extending phone or speaker circuits of a radio set to a more distant point. Furnished complete with a bakelite connection plug for connecting to present leads of set. Furnished in 20-ft. lengths and up to 50 ft. and packed in an individual carton; 12 cartons to a display box with handsome display sign.



List Price, Premier (highest grade).....\$1.75  
List Price, Premier Jr. (medium weight)..... 1.25

Premium Jr. extension cords are also supplied in the following lengths:

List Price, 25 ft.....	\$1.50
List Price, 35 ft.....	1.75
List Price, 50 ft.....	2.00

Cords in bulk are furnished 100 in a package as follows:

	List Price
20 ft. Extension cord .....	\$.65
5 ft. Loud speaker cord.....	.35
6 ft. Loud speaker cord.....	.40
5 ft. Head set cord.....	.50
6 ft. Head set cord.....	.60
5 ft. Brandes set .....	.60

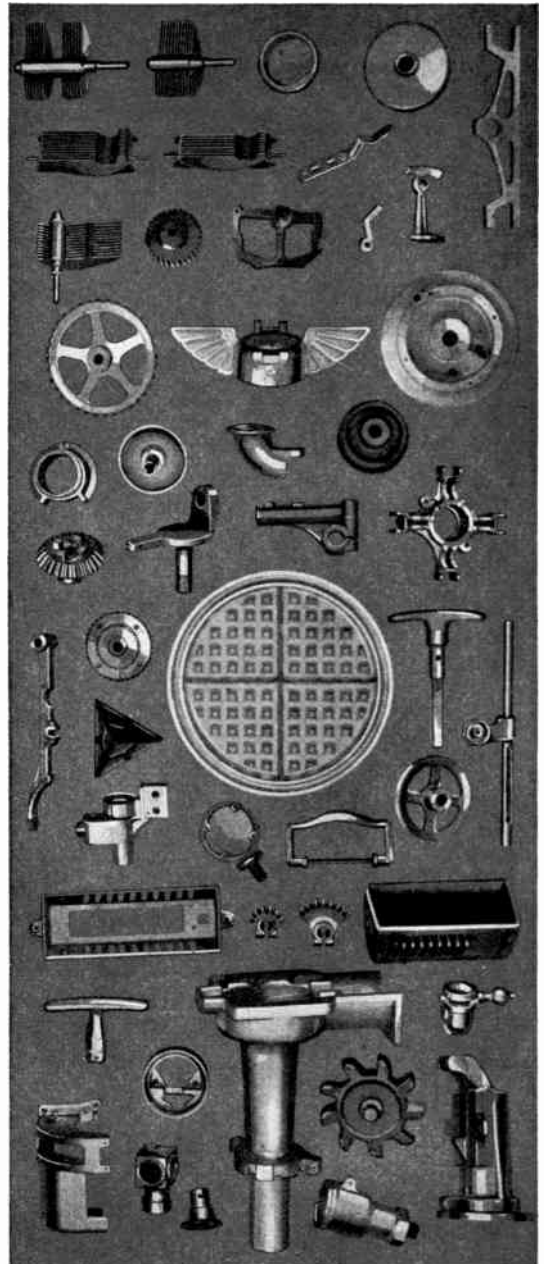
# BARNHART BROTHERS & SPINDLER

Monroe & Throop Streets  
CHICAGO, ILL.

## Superior Die Castings

Intricate mechanical parts accurately cast of aluminum, zinc, tin and lead base alloys.

Unexcelled facilities for producing the best that can be had in quality, delivery and price. Quotations submitted on receipt of blueprints or samples.



A Few of the Many Diecast Parts Produced by Our Modern and Efficient Die-Casting Department

# THE SUPERIOR DIE CASTING COMPANY

874 E. 72nd Street

CLEVELAND, OHIO

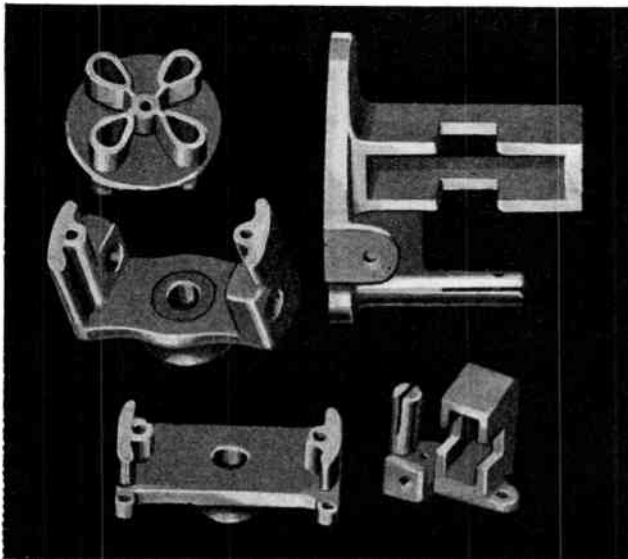
CHICAGO, 19 South La Salle Street  
DETROIT, General Motors Bldg.



## SuperCast Die Castings

Zinc, Tin, Lead and Aluminum Die Castings

Better methods are the reasons for SuperCast Die Castings. They are built up to a standard good enough to deserve the mark they bear.



Precise dies and tools—the right alloys—the art of industry are definitely and successfully applied to the continuous and daily needs of those users of die castings who want the advantages of SuperCast quality and service.

## Experience

Back of every SuperCast die casting there is intelligent metallurgical and engineering thought. Six years of knowing how is reflected in the in-built quality and dependability of the product we manufacture.

# FAHNESTOCK ELECTRIC COMPANY

LONG ISLAND CITY, N. Y.



## Spring Binding Post

Made in over 48 different sizes and styles.

Used by manufacturers of standard sets and parts, also makers of high grade A and B wet and dry batteries.

Easily attached; no soldering.

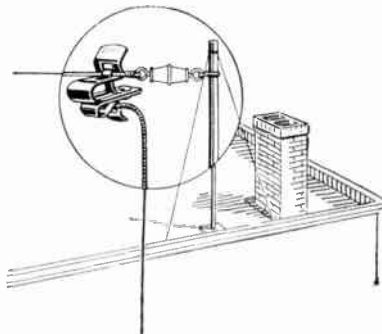


## Antenna Connector

The standard test connector in the telephone field.

Eliminates splicing and soldering of wires.

Snap larger connector over antenna wire; insert lead-in wire into smaller clip and a perfect connection results.



## Lead-in

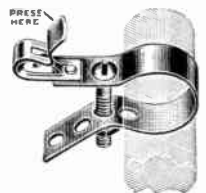
Consists of a copper strip to which are attached at each end Fahnestock Spring Binding Posts for making connection covered with cotton braid soaked in waterproof varnish. Clips nickel plated to prevent corrosion. Dimensions: Length overall, 12 in.; width,  $\frac{3}{8}$  in.



## Ground Clamp

Made from soft copper  $\frac{3}{8}$  in. wide, with a phosphor bronze spring binding post, also a screw and nut attached.

Eliminates soldering. Easily attached.



All genuine Fahnestock Products bear our name. Send for complete catalog.

# AERO PRODUCTS, INC.

1772 Wilson Avenue, Chicago, Ill.

PACIFIC COAST REPRESENTATIVE: HENGER-SELTZER, 111 Wall St., LOS ANGELES; 377 Brannon St., SAN FRANCISCO

## Supersensitive Aero Coils

Replace your present inductances with genuine patented Aero Coils, thereby eliminating radio frequency losses. A tremendous improvement will be immediately apparent in volume, tone and selectivity. Where not otherwise specified, these inductance units cover a wave band from 200 to 550 meters.

*Jobbers and dealers should have Supersensitive Aero Coils on hand at all times. Better order today.*



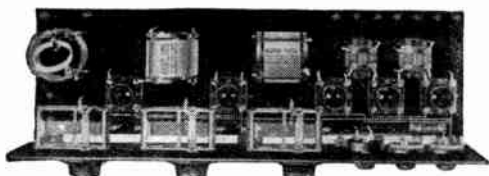
## Aero Tuned Radio Frequency Kit No. TRF-120

This kit contains 3 matched units. Antenna coupler has variable primary. Uses .00035 condenser.

With each TRF-120 kit is enclosed an 8-page colored blueprint layout book, actual size, containing exhaustive wiring instructions for building the Aero-Dyne 5-tube set. Any standard makes of condensers, sockets, and audio transformers may be used. For the panel, we recommend the Aero-Dyne Verichrome panel, 7 by 28 by 1/8 in., marketed by the Formica Insulation Co. at a list price of \$6.40. List Price .....\$12.00



Stock No. TRF-120



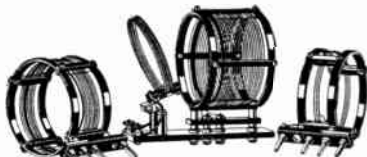
Layout View of the Aero-Dyne



Panel View of the Aero-Dyne

## Aero Short Wave Kit

Completely interchangeable. Adopted by experts and amateurs. Range 15 to 130 meters. Includes 3 coils and base mounting, covering U. S. bands 20, 40 and 80 meters. Uses .00014 condenser on secondary, and .00025 on feedback control.



Stock No. LWT-125

List Price .....\$12.50

## Aero R. F. Regenerative Kit

One radio frequency coil and one tapped 3-circuit tuner.

Makes the world's most efficient 4-tube set; uses .00035 condenser.

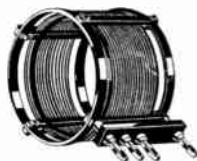


List Price ...\$10.00

Stock No. RFR-110

## Aero Interchangeable Coils Nos. 4 and 5

Increase the range of your short wave tuner by securing coil No. 4 and coil No. 5, combined range 125 to 550 meters. Both interchangeable coils fit the same Aero base supplied with the short wave kit, and uses the same condensers.



Stock No. INT-4



Stock No. INT-5

List Price

Coil No. 4—range 125 to 250 meters.....\$4.00  
Coil No. 5—range 235 to 550 meters..... 4.00



Stock No. AX-45

## Aero Antenna Coupling Coil

A genuine low-loss antenna coupler, with variable primary. Uses .00035 condenser.

List Price .....\$4.50

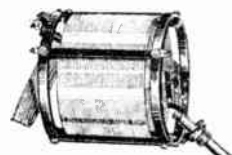
## Aero Crystal Coil or Wave Trap Unit

Very effective because of its ideal Aero Coil characteristics. Also for crystal sets. Uses .00035 condensers.

List Price .....\$4.00



Stock No. WT-40



Stock No. CT-80

## Aero 3-Circuit Tuner

The true low-loss tuner. Variable primary, uses .00035 condenser.

List Price.....\$6.50



Stock No. OS-55

## Aero Oscillator

Greatly improves the performance of the oscillator circuit of superheterodynes, uses .0005 condenser.

List Price .....\$3.50



# AEROVOX WIRELESS CORPORATION

MEMBER R.M.A.

489-493 Broome Street  
NEW YORK, N. Y.

Branch Offices:

BOSTON, 94 Portland St.  
CHICAGO, 52 W. Jackson Blvd.  
WASHINGTON, D. C., 1215-16th St.

CINCINNATI 304 Palace Theatre Bldg.  
LOS ANGELES, 324 N. San Pedro St.  
PORTLAND, ORE., 449 Alder Street

ST. LOUIS, Syndicate Trust Bldg.  
SAN FRANCISCO, 171 Second Street  
SEATTLE, WASH., 1427 L. C. Smith Bldg.

## Aerovox Fixed Condensers and Resistances

Nationally advertised and specified in the following circuits: Raytheon "B" Eliminator, Ultradyne, Raytheon Power Pack, Diamond of the Air, Craig Power Pack, Rogers Schudt, Tectron "B" Eliminator, "210 Power Amplifier," by M. B. Sleeper and others. Used by more than 200 manufacturers of Radio Receivers and "B" Eliminators.

AEROVOX Fixed Condensers are endorsed by M.I.T., Yale University, and other prominent Radio Engineers. Specified in the L.C. 27 by Laurance M. Cockaday.

## Aerovox Fixed Mica Condensers

Type 1250—Of highest electrical efficiency, not affected by moisture or temperature changes. Eyelet terminals and soldering lugs. Standard size. Mounting holes  $\frac{1}{8}$  in. from center to center. .00005 to .02 Mfd. List 35c. to \$1.50



Type 1250



Type 1275

Type 1275—With eyelet terminals and Grid Leak mounting. .0001 to .0005 Mfd. List, 40c.

Type 1150—With binding post terminals. Thoroughly impregnated. Standard size. Terminals spaced  $\frac{1}{2}$  in. from center to center and tapped for 6x32 screw. .00005 to .01 Mfd. List, 35c. to 90c.



Type 1150

Type 1175—With binding post terminals and Grid Leak mounting. .0001 to .0005 Mfd. List, 40c.

Type 1350—Housed in bakelite with tinned brass fittings. One piece end plate and soldering lug. Standard size and spacing. .0001 to .01 Mfd. List, 30c. to 80c.



Type 1350

Type 1375—With eyelet terminals and Grid Leak mounting. .0001 to .0005 Mfd. List, 35c.



Type 1375

## Aerovox By-Pass Condensers

Type 1200—Thoroughly impregnated and of high dielectric strength. Mounted in compact metal container with mounting lugs and tinned copper terminals. Tested 500 Volts, A. C. .05 to 5.0 Mfd. List, 55c. to \$4.00. Also supplied without containers.



Type 1200



## Aerovox Filter Condensers

Types 1225 and 1230—Will stand up indefinitely under severe service requirements of battery eliminators. .1 to 4.0 Mfd. Type 1225, Tested at 800 volts A. C. List price, 75c. to \$4.00. Type 1230, Tested at 1400 volts A. C. List price, 85c. to \$6.00.



Type 1225

Type 1225, Tested at 800 volts A. C. List price, 75c. to \$4.00. Type 1230, Tested at 1400 volts A. C. List price, 85c. to \$6.00.



Type 1230

Aerovox Condenser Blocks—Approved by Raytheon Mfg. Co. For economy, compactness and easy assembly of battery eliminators, several combinations of Aerovox Filter Condensers are mounted in a metal container. Parts list and circuit diagram sent on request. Raytheon Blocks in stock.

## Grid Leaks and Resistors

Type 1090—Element of special resistance material which makes them permanent and accurate. Turned ends  $\frac{1}{4}$  to 10 megohms, 20c. 25, 50, 75, 100, 150 and 200 thousand ohms, 30c.



Type 1090

Lavite Resistances, Type 1098—For use where large current capacity is required. Standard size to fit any Grid Leak mounting. 1,000 to 500,000 ohms resistance. Price, \$1.00.

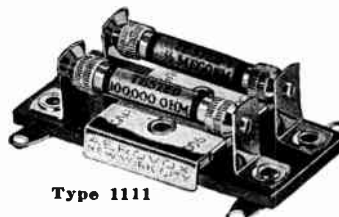


Type 1098

Grid Leak Mountings Type 1046 — Bakelite base. Takes any standard Grid Leak. Also double and triple.



Resistofomers, Type 1111 — Simplest complete unit for resistance coupled amplification. With .006 Cond. \$1.50; .01 Cond. \$1.70.



Type 1111

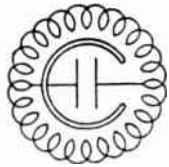
Three Stage Resistofomer Kit—Contains first, second and third stage Resistofomers, with essential parts for a 3 stage Resistance Coupled Amplifier. With .006 Cond. \$4.50; .01 Cond. \$5.10.



# CONCOURSE ELECTRIC COMPANY

286 East 137th Street  
NEW YORK, N. Y.

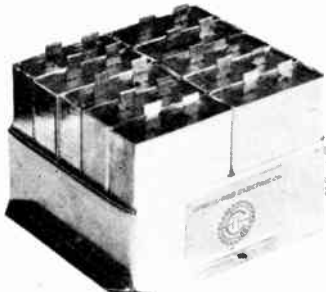
## The Ideal Condenser Service for Manufacturers



No intelligent set or kit manufacturer today doubts that condensers must be purchased from other considerations than that of price alone. While the Concourse Electric Company understands and gives all due weight to price restrictions, it carefully weighs the many other factors entering into

condenser production and use, and hence is able to offer an ideal service in the manufacture of condensers for every purpose.

**Experience**—The Concourse Company has for years conferred with and advised very large manufacturers in the perfection of old-type condensers and the construction of new types. It continuously operates under contracts to produce a very large percentage of all the commercial condensers now on the market. This standing in the trade reflects a skilled organization able to approach *your* particular condenser problem from the correct viewpoint and definitely settle it.

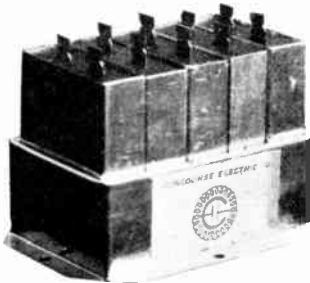


**Ability to Deliver**—With the increasing stability of Radio manufacturing, mass production on stated schedules becomes the rule, and the assembling process cannot be interrupted for lack of such small purchased parts as condensers. Our very complete and specialized equipment is almost immediately available for any order however large or urgent. We are, therefore, in a position to match the most critical delivery schedules.



**Stocks on Hand**—Because of the scope of operations, the Concourse Company is financially able to carry on hand all the standard raw materials—even the most costly—needed for maximum production requirements. This factor ties in very directly with ability to make prompt deliveries. Our financial soundness makes us as thoroughly dependable as any department under a manufacturer's personal supervision. Such ability to carry out contracts faithfully is worth a great deal but is in no way reflected in our prices.

**Prices**—We invite your submission of specifications, delivery requirements, etc., for the manufacture of any kinds of fixed condensers whatever—fixed, filter, by-pass, block or other types in every kind of mounting. Price for price, you will be assured of the very best materials, workmanship and service obtainable.



# The Condenser Corporation of America

Paper Dielectric Condensers

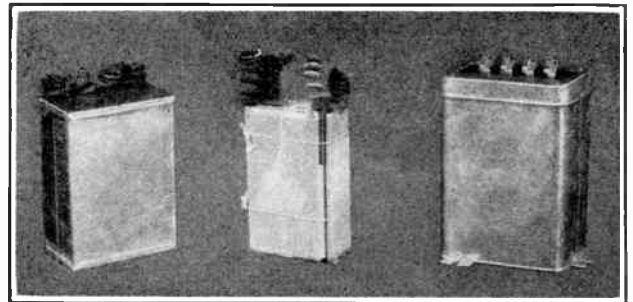
25 Waverly Place

NEW YORK, N. Y.



## Filter and By-Pass Condensers for Manufacturers

"Acrakon" condensers are wound automatically and processed by new improved methods.



Capacities from 0.1 mfd. up.  
Working voltages, 200 d-c. up.  
Dielectric resistance, over 1000 megohms per mfd.  
Capacity accuracy guaranteed within 5%.  
Low radio frequency resistance.  
Small phase angle.  
Non-inductive.

## Representative Users of Acrakon Condensers

Acrakon Condensers are now used by such representative manufacturers as the following:

Argus Radio Corp.  
Chamberlin Elec. Co.  
Colonial Radio Co.  
Conner Crouse Corporation.  
J. B. Ferguson, Inc.  
Forest Electric Co., Inc.  
Phila. Storage Battery Co.  
Precision Coil Co.  
Rasla Electric, Inc.  
Telautograph Corp.  
Timmons Radio Products Corp.  
Walbert Mfg. Co.  
And others.

Immediate delivery can be made on bare sections. Ten days to three weeks are required on special assemblies.

Our engineering service is available, without obligation.



# DUBILIER CONDENSER & RADIO CORPORATION

4377 Bronx Blvd., New York, N. Y.

Branch Offices

CHICAGO ST. LOUIS LOS ANGELES WASHINGTON

## Dubilier Condensers

Dubilier Condensers are known throughout the world for accuracy and dependability, demonstrated in practically every radio installation of note and in the best known of receiving sets and amateur apparatus. Their reputation has back of it exhaustive research and exacting factory tests of every condenser.



Micadon 601

**Micadon 601**—The standard of small fixed condensers in radio. Designed on revolutionary principles, it was one of the first radio products to discard heavy molded insulation with its high dielectric loss. Capacities: .00005 to .006 mfd. Tested at 600 volts D.C.

**Micadon 640**—Built to meet the need for higher capacities in super-heterodynes, reflex circuits, and resistance coupled amplifiers. The precision of its accuracy, and protection against losses in its fixed and permanent capacity have given this condenser unequalled popular demand. Capacities: .00025 to .02 mfd. Tested at 1100 volts D.C.



Micadon 640



Condenser Type 901

**Paper Condensers Types 901, 902, 903**—All purpose condensers especially adapted for use in the filter circuits of battery eliminators, power amplifiers, etc.

Made with a maximum working voltage for continuous operation of 160, 400, and 600 volts respectively.

Capacities: 1, 2, 4, and 6 mfd.

**Paper Condenser Type 907**—An improved and compact paper condenser to replace the old "bypass" type of condenser with a working voltage for continuous operation of 160 volts D.C. Capacities: 0.1, 0.25, 0.5, 1.0, and 2.0 mfd.



Condenser Type 907



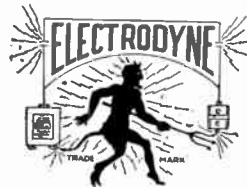
Micadon 700

**Micadon 700**—The newest addition to a famous line. Completely shielded in a bright aluminum case, this Micadon is tested at 1600 volts D.C., making it available for use in low-power C.W. transmitters.

Capacities same as Micadon 640.

# ELECTRODYNE CO., Inc.

2378 Third Avenue  
NEW YORK, N. Y.



## Electrodyne Fixed Condensers

An accurate and reliable mica condenser at a reasonable price.

The best grade India mica is used for the dielectric which is accurately measured for thickness to insure the absolute rated capacity.

Assembled between bakelite plates with metal supporting plates which are also used as connectors and mounting supports. Fastened with solid rivets, not hollow eyelets. Sealed in a moisture-proof insulating compound.

Individually tested for capacity and breakdown and guaranteed within commercial limit of 10 per cent.



Plain Condenser



Condenser With Grid Mounting

Capacity mfd.	List Price, Plain	List Price, With Grid Mounting
.0001	\$ .25	\$ .30
.00025	.25	.30
.0005	.25	.30
.001	.25	....
.002	.30	....
.003	.35	....
.004	.40	....
.005	.45	....
.006	.50	....
.01	.90	....

Also manufactured in other capacities; prices on request.

## Electrodyne By-Pass and Filter Condensers

A large capacity condenser, small in size, designed to hold its charge for days.

Dielectric of finest imported paper. Treated with moistureproof compound and put under tremendous pressure to insure a constant capacity.

Each condenser individually tested for capacity and a 600-volt breakdown test.

May be used also as filter condensers to eliminate hum in power units.

The semi-mounted type condenser will readily appeal to manufacturers who now use condensers unmounted with no protection around them.



Mounted By-Pass Condenser



Semi-Mounted By-Pass Condenser

Capacity, mfd.	List Price, Semi-mounted	List Price, Mounted	Capacity, mfd.	List Price, Semi-mounted	List Price, Mounted
.1	\$ .40	\$.60	1.	\$ .80	\$1.00
.25	.45	.65	2.	1.30	1.50
.5	.60	.80	3.	2.05	2.25
			4.	2.80	3.00

# Igrad Condenser & Mfg. Co.

26 Avenue D, Rochester, N. Y.

## Fixed Condenser Specialists

The experience that our skilled staff has acquired through many years of condenser building amounts to specialization of high order. The Igrad Condenser Types show how painstakingly we adapt the condenser art to new construction. We make special sizes and types to manufacturers specifications.

### Igrad "B" Unit

All of the different condenser capacities used in the standard types of "B" eliminators are compactly assembled in this single unit.

The different capacities are led out to high grade (non-removable top) binding posts on a bakelite strip panel, each post having its capacity plainly marked. All the windings are made up for operation on D.C. up to 300 volts, except the .1 mfd. size which stands up under 1500 volts A.C. This unit is entirely enclosed in a metal case only 3 1/2 x 2 1/2 x 5 in.

**Separate Condenser Units**—The different capacities included in the Igrad "B" Unit, as well as others, are furnished in separate units, if required, at prices indicated below. Particular attention is called to the uniformity of capacity ratings and high insulation resistances which mean long life condensers. They are highly recommended by the Raytheon Mfg. Co. for use in eliminators employing their tube.



List Price \$11.00

Igrad "B" Unit	\$11.00
Separate Condenser Units	
.1 mfd.	.60
.25 mfd.	.70
.5 mfd.	.75
1.0 mfd.	.90
2.0 mfd.	1.75
7.0 mfd. (high voltage type)	7.25



Code No. 42 A  
1 1/2 x 1 x 2 in. high



Code No. B 405  
2 x 1 1/2 x 3 1/2 in. high

# MICAMOLD RADIO CORP.

BROOKLYN, N. Y.

Representatives

BRANCH WAREHOUSE  
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1555 Venice Blvd.  
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L. D. TUTTLE COMPANY  
2008 1/2 Commerce St.  
DALLAS, TEX.

## Permanent Condensers

Made of best India mica and tin foil. Moulded in genuine Bakelite under heavy pressure. Absolutely noiseless, sealtight and moisture proof. Capacities guaranteed absolute and permanent. Not affected by heat of soldering, acid fumes on climatic changes.

List Prices

.00005 mfd. to .0005 mfd.	\$.35
.0006 mfd. to .002 mfd.	.40
.0025 mfd. to .004 mfd.	.50
.005 mfd.	.60
.006 mfd.	.75
.0075 mfd.	.85
.01 mfd.	1.00
.015 mfd.	1.40
.02 mfd.	1.75

All capacities guaranteed to be within 10 per cent of their marked values. Packed 10 per display box.



Type P.C. 100

## Interchangeable Resistance Coupler Units With Mica Permanent Condenser



Type R.C.U. 400

Moulded in genuine Bakelite. Advanced design; compact, pleasing appearance. Has new Micamold combination one-piece mount and soldering lug. Separate lugs and loose contact eliminated. Special nuts for direct connection of leads where soldering is not desired. A special recess permits interchanging of Micamold Permanent Condensers, especially convenient in experimental work. Resistor mountings carefully separated to render impossible the short-circuiting and blowing out of tubes.

With .01 mica condenser	\$1.50
Without condenser, for use with our type I.C. 500	
Mica Coupling Condenser	.75

## Resistance Valves and Resistors

Moulded in genuine Bakelite. Proof against all resistance changes due to atmospheric conditions, moisture absorption and temperature losses. Remain constant and noiseless, cannot break or become defective under most extreme conditions. Guaranteed within 10 per cent commercially of rated markings. Resistance elements in permanent contact with end terminals; need no soldering or cementing.



Type R.V. 300

Resistance Valves	List Price
Megohm ratings of .125 to 10.0	\$.45
Resistors	
Megohm ratings of .1 to .01	.70
Megohm ratings of .008 to .0025	.90

Valves and Resistors are packed 10 per display box; 5 boxes per carton.

## All-Weather Lightning Arrestor

Moulded in genuine Bakelite. Constructed of bronze electrodes and mica. Moistureproof and indestructible. Readily attached to outdoor aerial or across aerial-ground leads of receiving set. Equipped with special strap for mounting securely to outside window casements. Packed in individual boxes. 50 boxes to the carton. Listed as standard by Underwriters' Laboratories, No. 361-A4.



Type L.A. 700

List Price \$7.75

# SANGAMO ELECTRIC COMPANY

## SPRINGFIELD, ILL.

Radio Division

50 Church Street, NEW YORK, N. Y.

Sales Offices in Principal Cities of the United States

CANADA  
SANGAMO ELECTRIC COMPANY OF CANADA, LTD.  
TORONTO, ONT.

EUROPE  
BRITISH SANGAMO COMPANY  
PONDERS END, MIDDLESEX, ENGLAND

FAR EAST  
ASHIDA ENGINEERING COMPANY  
OSAKA, JAPAN



### Sangamo Mica Condensers

Sangamo mica condensers are solidly molded in bakelite.

They are moisture-proof, heat-proof and acid-proof. All edges are sealed, preventing moisture from creeping in to change the capacity. All edges are rounded to prevent chipping and high ribs give unusual mechanical strength.



Sangamo Mica Condenser Actual Size



Sangamo Mica Condenser with Resistor Clips

Accuracy is an absolute essential of good radio construction. Sangamo mica condensers are guaranteed to be accurate within 10 per cent of marked capacity and to retain their accuracy.

Made in a range for 34 sizes, providing exact capacities for all radio purposes.

Capacity mfd.	List Price	Capacity mfd.	List Price
0.00004	\$.40	0.0008	\$.40
0.00005	.40	0.001	.50
0.00006	.40	0.0012	.50
0.00007	.40	0.0015	.50
0.00008	.40	0.00175	.50
0.0001	.40	0.002	.50
0.00012	.40	0.0025	.50
0.00015	.40	0.003	.60
0.000175	.40	0.0035	.60
0.0002	.40	0.004	.60
0.00025	.40	0.005	.70
0.0003	.40	0.006	.85
0.00035	.40	0.007	.90
0.0004	.40	0.0075	.95
0.0005	.40	0.008	1.00
0.0006	.40	0.01	1.15
0.0007	.40	0.012	1.20

With resistor clips, 10 cents extra.

### Sangamo Wound Condensers

"Won't break down."

For radio and industrial purposes, such as removing static electricity from manufacturing processes; attaching across brushes of motors; B Battery eliminators; attaching across terminals of batteries.

American made; especially wound to eliminate internal air or ozone bubbles, which cause a variation in surface contact and therefore a fluctuating capacity, as well as shortening the life of poorly made condensers.

Accuracy guaranteed within 10 per cent of marked capacity.



Sangamo Wound Condenser



Series "A"

Guaranteed for continuous operation at 250 volts a-c., 400 d-c. Tested at 400 volts a-c., 750 d-c.

Capacities mfd.	List Price
1/2	\$.80
1	.90
2	.90
1	1.25
2	2.00
4	3.00

Also made in blocks, as follows:

Series A:

12 mfd., tapped 8-2-2 mfd.

14 mfd., tapped 8-2-2-1-1 mfd.

Special Varion Eliminator Group:

14 mfd., tapped 4B-2A-1A-1A-4A-1A-1A

Two 1/2 mfd. B tapped neutral, 1/2, 1/2

List Price.....\$12.00

Special sizes can be made up as desired if fair quantities are ordered at one time.



Series "B"

Guaranteed for continuous operation at 500 volts a-c., 1000 volts d-c. Tested at 800 volts a-c., 1500 volts d-c.

Capacities mfd.	List Price
1/2	\$1.25
1	1.40
2	1.60
1	1.95
2	2.50
4	4.00



# WIRELESS SPECIALTY APPARATUS CO.

*Manufacturers of Electrostatic Condensers for all Purposes*

JAMAICA PLAIN, BOSTON, MASS.

*Faradon*  
FOR SERVICE

## Faradon Capacitors

Are the finished product of 19 years' scientific research and service experience. They are manufactured from best materials, produced by precision tools, and subjected to rigid tests.

Model T—All-Metal-Mica Receiving Set Type Units, having the following features:

Permanent capacity; low energy loss; high voltage factor of safety; low cost; minimum size and weight; insulated end plates; tinned bronze terminals; attractive appearance.

Capacities from .00005 mfd. to .006 mfd.



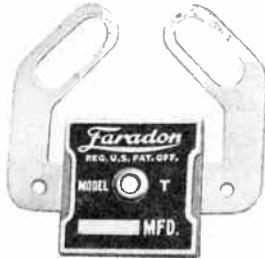
### Type I Terminals

For soldered connections in any portion of circuit.



### Type II Terminals

Holds standard cartridge grid leak. Also takes soldered connections.



### Type III Terminals

For transformer and other binding post mountings. Also takes soldered connections.

Model UC—Mica Dielectric Units are furnished in capacities from .00002 to 1.0 mfd., in a variety of casings and mounting arrangements.

These units are in general use in broadcast and amateur transmitting equipment.

Detailed descriptive catalog on request. A copy of Bulletin 101 should be requested by those interested in carrier current coupling condensers.



Casing No. 5

Casing No. 11

Casing No. 20B



Casing No. 75B

Casing No. 28B

Casing No. 77

## By-Pass and Filter Units Model WS

The distinctive features of Model WS are:

1. Long life.
2. Convenient terminals.
3. Casings of filter units of same height and width for neat grouping.
4. Attractive appearance.
5. Capacity, test and operating voltages stamped on each unit.
6. Dependable source of supply.
7. Quality at low cost.

The Faradon "Universal" Filter Condenser Block Model WS-3750 is designed to operate in connection with the most generally used "B" eliminator and power pack circuits.

The total capacitance of 14.2 mfd. is brought out to fixed terminals in convenient units, permitting ready connecting as desired.



Model No. WS-3750

Units to be connected in the circuit where possible high voltage surges may occur are constructed to withstand higher voltages than is usually required to take care of occasional surge peak potentials.

Convenience, safety and continued satisfactory operation are combined in the Faradon Filter Block.

Faradon Filter Capacitors are also furnished in individual units of  $\frac{1}{2}$ ,  $\frac{1}{3}$ , 1.0, 2.0, 3.0 and 4.0 mfd. in three voltage classes:

Class A, flash test 800 VDC, for continuous operation on d.c. up to 300 volts or on a.c. up to 150 volts.

Class B, flash test 1500 VDC, for continuous operation on d.c. up to 450 volts or on a.c. up to 225 volts.

Class C, flash test 2000 VDC, for continuous operation on d.c. up to 600 volts or on a.c. up to 300 volts.

Also a complete line of capacitors in units and gangs for all by-pass and blocking applications.



Faradon Filter Units

# AMSCO PRODUCTS, INC.

Broome and Lafayette Streets, New York, N. Y.



**Amsco Floating Socket**

Sturdy and substantial, yet extraordinarily small, and it floats. All types of tubes fit with the click that accompanies positive wipe contact. The tubes are floated and practically isolated from base or panel. Effectively eliminates microphonic noises, mechanical feed back and audio vibration. Essential for sensitive sets and those with built-in loud speakers.

List Price .....\$1.00



**Amsco Universal Tube Socket**

Takes the new tubes with standard bases of UX and CX types. Adapted for dry cell and storage battery tubes. A push-down motion locks tube in base and eliminates the twisting movement heretofore necessary.

List Price .....\$ .50



**Amsco Filatrol**

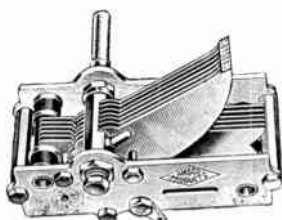
An automatic filament control that takes the place of manually adjusted rheostats in the average circuit. Unique design; a departure from the conventional form, gives unflinching efficiency. Unmatched compactness. Guaranteed for the life of any set.

List Price.....\$1.00  
Renewal Bulb.. .50

## Amsco Allocating Condensers

meet all Radio requirements—straight frequency line, straight tuning line and straight capacity line—allocating by frequency, wave-length and capacity variations.

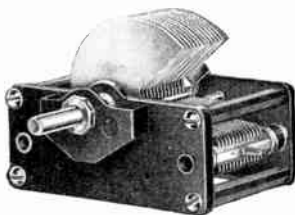
Individual condensers in gang units are carefully matched. Electrically, they are characterized by low phase differences and low minimum capacities which minimize losses to a negligible degree, and insure a perfect tuning curve.



**Straight Frequency Line (S. F. L.)**

A variable condenser with plates so designed that the resonant or tuned frequency will be raised or lowered the same amount for each dial division. In other words, radio stations which are allocated at ten kilocycle intervals will be spaced equally over the entire tuning range—no crowding at long or short waves.

Single Condenser Prices:  
.00025 and .0003 mfd. \$2.75  
.00035 mfd. .... 3.00  
.0005 mfd. .... 3.50  
Siamese (two gang) units:  
.00025 and .0003 mfd.  
each .....\$5.50  
.00035 mfd. each..... 6.00  
.0005 mfd. each..... 7.00



**Straight Tuning Line (S. T. L.)**

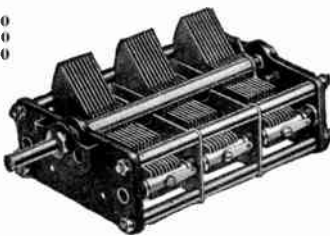
A specially designed modified frequency condenser which allocates the stations on the dial in accordance with wave-length divisions. This facilitates tuning according to the wave-lengths specified for the various stations in the daily programs. (Single Hole Mounting).

Single Condensers:  
.00025 and .0003 mfd. \$3.00  
.00035 mfd. .... 3.25  
.0005 mfd. .... 3.75  
Siamese Condensers:  
.00025 and .0003 mfd.  
each .....\$6.00  
.00035 mfd. each..... 6.50  
.0005 mfd. each..... 7.50



**Special 3-Gang Condensers**

.00025 and .0003 mfd. each....\$12.00  
.00035 mfd. each..... 13.00  
.0005 mfd. each..... 15.00



**Triplet Condensers**

.00025 and .0003 mfd. each.\$9.00  
.00035 mfd. each..... 9.75  
.0005 mfd. each.....11.25



**Amsco Tom Thumb Rheostat**

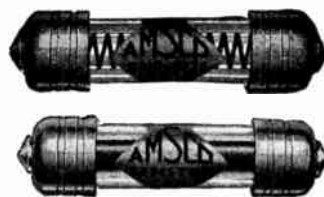
A true midget for saving space front and back of panel—eliminates needless bulk. Very effective—has normal electrical contacts. Aircooled. Bakelite base and knob with indicator arrow. 10, 20, 30, 50 ohms. Price.....\$ .75



**Amsco Resistive Coupling Amplifier**

With Amsco Metaloid Resistors, this unit perfects the resistive coupled audio circuit. It improves upon all previous designs in the arrangement of binding posts, in that the couplers may be lined up with the sockets, rather than between them.

Marvels of compactness, they eliminate the need for leads, and cut three full inches from the average panel. Price less resistor and grid gate.....\$1.25



**Amsco Metaloid Grid Gates and Resistors**

Uniquely Silent, accurate and stable.

Price list: 2,500 ohms to 9,000 ohms, 90c.; 10,000 ohms to 100,000 ohms, 65c.; 150,000 ohms 10 megohms, 45c.; 500 ohms to 2,000 ohms, special (prices on request).

Accuracy guaranteed within 5% of rated value—Silent Operation guaranteed without qualification. *Amsco for Excellence!*

## Other Amsco Products

In addition to the products described on this page, we make the following:

Double Rheostats, Potentiometers, "Dublwunder" Combination Potentiometers and Rheostats for filament and voltage control, Character Binding Posts, Grid Leaks and Condensers, Tinned Terminal Lugs.



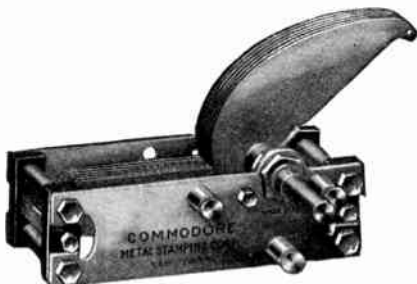
# Commodore Metal Stamping Corporation

88-90 Walker Street  
NEW YORK, N. Y.

## Commodore Compact Type S.L.F. Condenser

One of the smallest real straight line frequency condensers made. Total length with the rotors fully extended is only 5 in., making it possible to mount three of them on a standard 18-in. panel.

**Electrical Features**—Low loss type, genuine radion hard rubber insulation. Correctly shaped plates, giving even spacing between stations when using coil of recommended inductance.

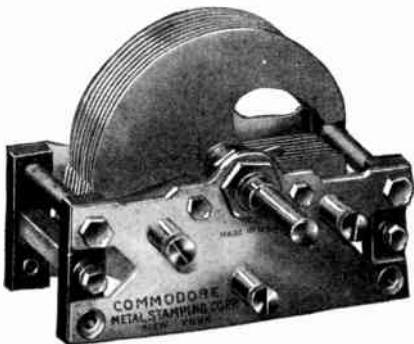


**Mechanical Features**—Brass construction throughout with aluminum end plates. Split "vice grip" front bearing. Large surface rear bearing. Stator plates peined into milled solid brass bars. Rotor plates spaced by brass spacers and peined by a supporting rod at outer ends. Stop pin which permits the dial to turn only 180 degrees. Four reinforcing rods to prevent twisting. See sizes and list prices below.

## Model 1927 Modified S.L.F. Condenser

Same mechanical and electrical features as the S.L.F. type described above. Retains the features of the S.L.F. type below 350 meters, and has the advantages of the S.L. Wave Length Type condenser above 350 meters.

See sizes and list prices below.



S. L. F. and Modified S. L. F. Condensers

Size	Max. Capacity, mfd.	List Price
7 plate (short wave)	.00017	\$2.00
7 plate (midget single-hole mounting)	.00004	1.00
13 plate	.00030	2.00
17 plate	.00038	2.25
17 plate (double)	.00038 per section	4.50
23 plate	.0005	2.50

# THE GOYER COMPANY

WILLIMANTIC, CONN.

Representatives  
CHICAGO, ILL., Davenport-Hickory Corp.  
DALLAS, TEX., Wetherbee Bros.  
NEW YORK, N. Y., Smith Sales Service, Inc.  
INDIANAPOLIS, IND., Samuel Toole  
BOSTON, MASS., J. L. Simon  
KANSAS CITY, MO., Fitzhugh Funsten  
OTTAWA, CAN., Wright Radio Co.

## "Windham" Variable Air Condensers

These low loss condensers have great mechanical durability. Practical separation between short-wave stations. They have the characteristics so necessary for easy tuning and selectivity. Suitable for accurate laboratory work and amateur assembling. Adjustable brake for balancing the rotor eliminates counterweights and springs and permits independent adjustment of the bronze cone bearings without altering balance or alignment. Base provided with two No. 8-32 tapped holes for sub-panel mounting.

Number	Rating, amperes	List Price
5-SS	.00012	\$2.75
11-SS	.00025	3.00
17-SS	.00035	3.25
23-SS	.0005	3.50
43-SS	.001	4.00



## "Windham" Rheostats and Potentiometers

Air cooled, wire-wound type. Regulates within close limits. Non-corrosive wire wound in grooves. Have been satisfactorily used in a wide variety of receiving sets. One hole only required to mount on panel.



Ohms	Rating		List Price
	Amperes		
6	1.0		\$ .75
10	.75		.75
20	.50		.75
30	.25		.75
200	(potentiometer)		1.25
400	(potentiometer)		1.25

Regularly furnished with attractive taper Bakelite knob and pointer, but graduated 2-in. dial may be supplied for \$ .25 over list price.

Vernier attachment may be supplied with the regular rheostats, and is always furnished with 2-in. composition dial and separate knob for manipulating vernier. For vernier, add \$ .50 to rheostat list price.

## "Windham" Bakelite Rheostats and Potentiometers

Made of the best materials the market affords. Most skillfully assembled. Base is of dense moulded Bakelite formed under hydraulic pressure, and designed to retain its original shape beyond ordinary working temperatures. Resistance element is special high grade alloy wire, and the smooth working bronze contact arm is operated by a brass spindle moulded into an attractive genuine Bakelite knob. All metal parts nickelplated. One hole only required to mount on panel.



Rating	List Price
6, 10, 20, 30 ohms	\$1.00
200, 400 ohms (potentiometer)	1.25

## "Windham" Wire Former

For accurately forming loops or eyes for No. 4, 6, 8 and 10 screws. Makes easy radius and sharp right angle bends. Has flat jaws and wire cutters. Made of best quality drop-forged steel, carefully tempered in oil. Every tool guaranteed against defects in workmanship and materials. Defective tools promptly replaced or money refunded.

List Price.....\$1.25

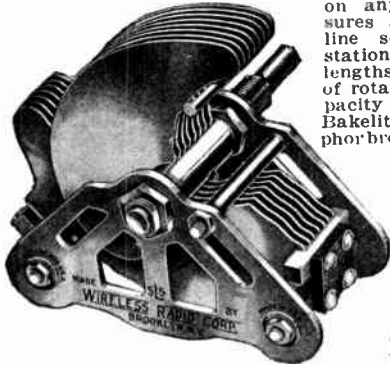


# WIRELESS RADIO CORPORATION

Varick Avenue and Harrison Place, Brooklyn, N. Y.

## Straight Line Separation Condenser

A combination straight line frequency and straight line wave length variable condenser. Rotor swaged—stator swaged; one hole panel mounting. Most rigidly constructed condenser on the market. Prevents jamming on any wave and assures an even straight line separation of all stations on all wave lengths. Stator plates are out of rotary field, assuring no capacity variation at any time. Bakelite insulation used. Phosphor bronze pig-tail connections.

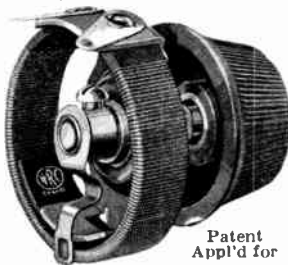


Range from 180 to 550 meters. Made with aluminum or brass plates. Specially constructed so that they can be easily joined to make tandem and triple types.

	Mfd.	Single	Double
.....	.00025	\$1.50	\$3.60
.....	.00035	1.60	3.60
.....	.0005	1.70	3.80

## Air-Cooled Rheostat

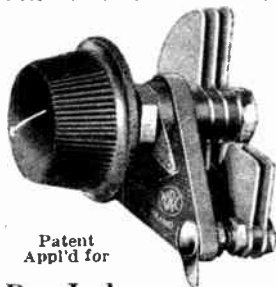
With or without arrow knob. One hole panel mounting. Resistance made of copper wire heavily nickel plated and exposed on all sides. All parts finished in heavy nickel-plate. Phosphor bronze connections assure positive contact at all times. Resistance can be built up slowly and held at any given point. Made in all standard resistances. List Price .....\$ .50  
"WRC" Potentiometers, List Price .....\$ .70



Patent Appl'd for

## Midget Condenser

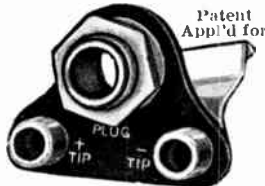
Patented one end plate construction. With arrow knob velvet bearing, heavy aluminum plates. A mechanically fine and electrically perfect vernier. The construction is so rigid as to prevent any possibility of misalignment. One hole panel mounting. Made with aluminum or brass plates in all standard capacities. List Price .....\$ .70



Patent Appl'd for

## Duo-Jack

Permits simultaneous use of speaker and phones. This jack makes it possible to use either the phone plug or phone tips, or both at the same time. With one phone plug you can use two loud speakers or two sets of phones in series or parallel as desired. When power tubes are used, there is a possibility of damaging loud-speaker unless two speakers are used in series. Occupies very little space. It can be mounted on either front or base panel. List Price .....\$ .25



Patent Appl'd for

## Push Pull Switch

All metal parts are of brass, heavily nickel plated and the insulation will stand constant use without current losses. It is instantaneous in "on" or "off" action and, when "on," maintains a positive and perfect contact. Well constructed of best materials. It is an ideal switch for sets where space is limited and the utmost efficiency and long service are demanded. List Price .....\$ .25



## Single Jack

Made with care and precision to give long and efficient service. Metal parts are of brass heavily nickel plated. Insulation will stand up under constant use. Has no sharp edges to wear out plugs. Maintains a positive contact and is uick acting in make or break contacts. List Price .....\$ .20



## "Glo-Dial" Vernier

Mounts in back of the panel. Adds to the attractiveness of a set, and increases its selectivity.

A small neat knob on the front panel controls the operation. The scale is on a translucent dial, the figures of which appear through an attractive panel window. In



Patent Appl'd for

back of this translucent dial is a small low current consumption electric light bulb, which is run directly from the receiver's filament battery. A small switch controls this light. In a dark room, the dial figures are easily read and the effect of the illuminated dial readings is very pleasing. Razor sharp tuning is made possible by the use of a smooth positive friction drive. All gears and cogs are eliminated, consequently there is no "back-lash" or "play."

Provision is made for mounting with all standard types of condensers, including double and triple. Can be used with any type set. List Price...\$1.75

Mazda Lamps for Glo-Dial and Pilot Light, List Price \$ .20

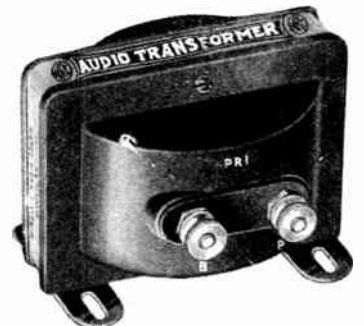


## Genuine Bakelite Vernier Dial

A handsome and efficient vernier that makes possible positive sharp tuning with quickness and ease. No gears; no back-lash. Genuine moulded bakelite, black satin finish. Ample space for station logging. Diameter 4 in. Ratio 10 to 1. Markings 0 to 100. List Price .....\$ .90

## Audio Transformer

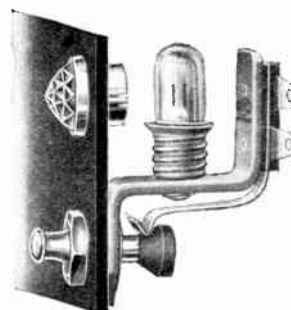
Realizing the ever increasing demand by the radio public for more perfect reproduction of broadcast programs which can only be accomplished by the perfection of amplifying units, our engineers have perfected an Audio Transformer that gives even, uniform and distortionless amplification of all notes and all frequencies, assuring perfect and noiseless reproduction of both voice and music. This transformer has a super-sized core combined with a high inductance primary. Complete shielding eliminates inter-stage interference. List Price .....\$2.00



## Combination Pilot Light and Filament Switch

This combination device does two things. It turns the set "on" or "off" and automatically lights up or turns off a pilot light which glows through an attractive red cut crystal effect on the panel. When the light glows, the set is operating, when it is off the set is not operating. This eliminates the possibility of unintentionally allowing the set to run after the program is over, thus saving that unnecessary drain on tubes and batteries. It can be easily mounted by anyone. List Price...\$ .50

We manufacture all our parts from the raw materials to the finished product.





# THOMPSON-LEVERING COMPANY

INCORPORATED

*Makers of Highest Grade Electrical Testing  
Instruments for Twenty-Five Years*

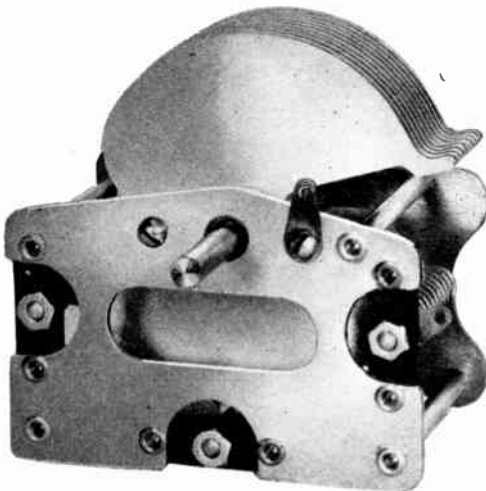
351-361 North 57th Street  
PHILADELPHIA, PA.

## Variable Air Dielectric Condensers

We build variable air dielectric condensers for radio receiving set manufacturers only.

We have supplied the largest manufacturers of high grade radio receiving sets for the last four years.

Twenty-five years experience in the manufacture of high grade electrical testing instruments is behind Thompson-Levering condensers, and our unexcelled plant facilities and trained personnel assures the prompt delivery of highest grade precision-made products in any quantity, and in strict conformity with customers' specifications.



To the manufacturers of radio receiving sets we offer:

- (1) Unlimited facilities for design and development.
- (2) Quality production.
- (3) Efficient service.
- (4) Uniform quality of product.
- (5) Dependable schedule of deliveries.

Send us your specifications and requirements and let us quote you.

At your request we will send engineer to cooperate with you.

# W. F. LOUGHMAN

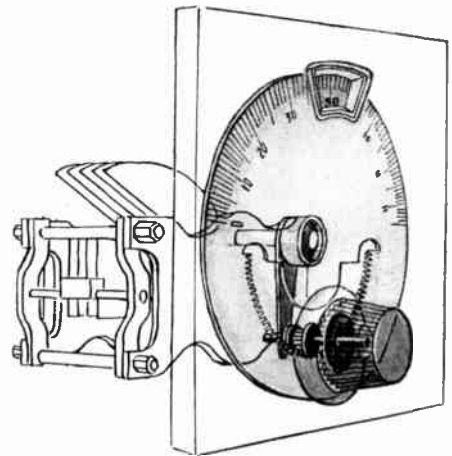
161 High Street  
BOSTON, MASS.

## Dialler No. 180

Dialler No. 180 is a very simple gear and friction device giving sharp, sensitive vernier control. It is mounted upon the instrument shaft, behind the panel. A "Looksee" window is provided for setting in the panel, to facilitate reading.

There are 200 divisions in a 180-degree scale. The vernier ratio is approximately 6 to 1.

This unit's simplicity makes it surprisingly adaptable to nearly any variable condenser or tuning unit.



Readings are clockwise and anti-clockwise, 0 to 100 and 100 to 0.

Material is aluminum in a non-reflective finish.

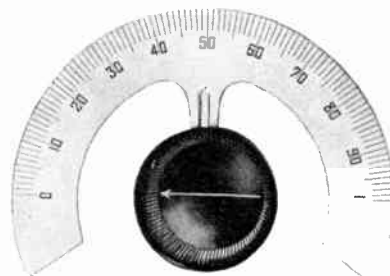
List Price, complete with "Looksee" and knob \$1.00

## Dial No. 104

This dial is made in a shape for most convenient use upon a panel-mounted condenser where there are three holes already drilled through the panel. The slotted cut on this dial allows a 180-degree revolution before any contact is made with the screws or fasteners.

The dial is mounted behind the panel with the shaft protruding. The dial reading is clearly visible through the "Looksee" or panel window.

The finish is the same as that of No. 180—a process aluminum with non-reflective, painted face.



List Price, complete with knob and "Looksee" . . \$.75

# THE H. H. EBY MFG. CO.



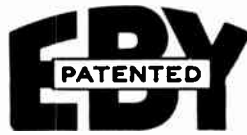
4710 Stenton Avenue  
PHILADELPHIA, PA.

## Eby Shielded Dials

Manufactured under Patent of Aug. 10, 1926.

A complete metallic shield forms the back of the Eby Dial and minimizes the effect of body capacity. It is a sensitive, finely constructed indicating device and keeps the instruments accurately set even after the hand is removed from the dial.

This dial is made in only one model. It operates any type con-



denser whether it turns clockwise or counterclockwise. It is graduated from 0 to 100 and from 100 to 0, with a hair-line indicator. One hole mounting.

It contains no gears or washers. Its smooth noiseless sensitive action is obtained by an anti-backlash friction drive and non-microphonic construction. Beautifully moulded black bakelite housing with a black oxidized adjusting nut. The nationally advertised list price is.....\$2.50



Eby Shielded Dial Showing Shield



Eby Shielded Dial Panel View

## Eby Binding Posts

Made in six different types and engraved in 35 different markings. The tops do not come off.

Eby Posts are nationally advertised and specified for some of the leading circuits on the market.

Eight out of ten manufacturers use them as standard equipment on their sets.

List Price .....\$0.15



Complete sets for various circuits, including all necessary markings, are now packaged separately.



Standard Eby Binding Post Markings

## Eby Sockets

These sockets assure a positive three point, wiping spring contact at all times.

When the tube moves the contact actually gets tighter and checks the jar.

Eby sockets are made in only one model.

They retail quickly and profitably at the advertised list price of.....\$0.50



Genuine Bakelite throughout. Phosphor bronze contacts are riveted. Mechanical spring soldering lugs.

# THE KURZ-KASCH COMPANY

Moulders of Plastics

DAYTON, OHIO

NEW YORK, N. Y., 250 Park Avenue CHICAGO, ILL., 608 S. Dearborn St. SAN FRANCISCO, CALIF., DETSCH & Co., 555 Turk St.  
 LOS ANGELES, CALIF., DETSCH & Co., 1939 E. 16th St. PORTLAND, ORE., DETSCH & Co., 207 Security Bldg.  
 SPOKANE, WASH., DETSCH & Co., S. 162 Post St. DENVER, COLO., DETSCH & Co., Box 1511

## Kurz-Kasch Aristocrat Dials and Knobs



Since the birth of radio, Kurz-Kasch has been foremost with all important improvements—the leader in the field of plastic mouldings. The name Aristocrat has always signified radio parts—Dials, Pointers, Knobs, etc.—of unsurpassed quality and efficiency. Kurz-Kasch Products are extensively advertised in all leading radio and trade publications. Whether you require standard radio mouldings—or plastics custom moulded—be sure to try Kurz-Kasch FIRST.

### Aristocrat Vernier Port Dial

Absolutely the most sensational advancement in the history of radio. A Vernier Dial with all mechanism and shaft ends concealed—a dial without gears, chains, cogs or cams. Nothing to wear out or get out of order. Positively no backlash! Readings appear in beveled port—clearly read and accurately logged. Installed in a few minutes! Vernier ratio: 14 to 1. Complete with famous Kurz-Kasch Split Bushing that fits any shaft—holds tight—aligns right! In three colors—black with white markings—mahogany or walnut with gold markings.



- No. 590—200 to 0.....\$2.00
- No. 591—0 to 200.....2.00
- No. 592—100 to 0 to 100.....2.00

### Aristocrat E-Z-Toon Vernier Pointer

Here's the fast-selling E-Z-Toon Vernier Pointer that broke all records last season. Because of its amazing efficiency and smooth operation, the E-Z-Toon Vernier Pointer is the most popular pointer of its kind on the market. Vernier ratio, 50 to 1. Oversize knob fits the hands perfectly and makes fine tuning a pleasure. Made of Bakelite—in three finishes—black, mahogany and walnut with gold or silver finish pointers. Can be supplied with single or double pointers as desired.



- No. 792—Single Pointer.....\$1.00
- No. 793—Double Pointer.....1.10

### Aristocrat E-Z-Toon Vernier Dial

Until we brought out the new Aristocrat Vernier Port Dial shown above, this Aristocrat E-Z-Toon Vernier Dial was the leader of Vernier Dials. It is one of the most profitable Vernier Dials a dealer can handle. Made in three pieces of Bakelite. Supplied with the famous Kurz-Kasch Split Bushing that fits all shafts and permits installation in a jiffy. Vernier ratio is 50 to 1.

Dial is four inches in diameter. Markings clockwise or counter clockwise 180 deg. and 360 deg. Made in black with white or gold markings. You can't go wrong on this dial, for it is still the leader in its field—and its extremely low price makes sales come easy.

- No. 775—0 to 100.....\$1.50
- No. 776—100 to 0.....1.50
- No. 777—0 to 200.....1.65
- No. 778—200 to 0.....1.65



### Aristocrat Rheostats

The fine quality and mechanical excellence of Kurz-Kasch Products has won for them the leadership in the field of plastic mouldings. In no other products is their sterling worth better exemplified than in the Aristocrat Rheostats and Potentiometers. The illustration can show but little of the fine, precision craftsmanship and rugged construction of these quality mouldings. They are designed for single hole mounting. Black dials and knobs with white filler, are standard. Can also be supplied in mahogany or walnut finish with gold markings. When seeking quality rheostats and potentiometers be sure to see the Aristocrat Line before you invest in any other.



- Rheostats, 4 to 30 Ohms
- No. 724-727—Shaft only .....\$ .75
  - No. 729-732—Arrow Knob ..... .90
  - No. 733-736—505 Dial.....1.00
  - No. 737-740—Pointer Knob..... .90
- Potentiometers, 200-400 Ohms
- No. 825-826—Shaft only .....\$ .85
  - No. 830-831—Arrow Knob.....1.00
  - No. 835-836—No. 505 Dial.....1.10
  - No. 840-841—Pointer Knob .....1.00



No. 17  
1 1/4 in.  
Arrow Knob  
1/4 or 3/32 thread  
Unit cartons of 20  
List Price, \$1.15



No. 18, 1 1/2 in.  
Arrow Knob  
1/4 or 3/32 thread  
Unit cartons of 20  
List Price, \$2.20



No. 706  
1-Piece Pointer Knob  
Complete with set  
screw 1/4 in. (3 1/4 in.  
circle)  
Unit cartons of 10  
List Price, \$.45



No. 705, 2-piece  
Pointer Knob  
With Split  
Bushings  
1/2 in. (3 1/2 in.  
circle)  
Unit cartons of 10  
List Price, \$.45



No. 702 1-Piece  
Pointer Knob  
Complete with  
set screw 1/4 in.  
1/2 in.  
Unit cartons of  
20  
List Price, \$.30



# AMERICAN FELT COMPANY

*Main Office:*

211 Congress Street  
BOSTON, MASS.

*Branch Offices:*

NEW YORK, N. Y.  
114 East 13th Street  
CHICAGO, ILL.  
325 South Market Street



## Felt for Radio Applications

**For Radio Tube Sockets**—Because of its resiliency and uniformity, American Felt Company's felt is splendidly adapted for use as a shock absorber in radio tube sockets.

Many radio set manufacturers have discarded spring rubber as an insulator and are using felt as a shock absorber in sockets of the detector tube and first stage of audio.

Radio tubes should be well protected from unnecessary jarring by the use of felt *underneath* the sockets. You thus eliminate tube noises.



**For Loud Speaker and Radio Set Bases**—As a cover for the base of loud speakers and radio sets, American Felt Company's felt is also gaining wide use.

With the radio set or loud speaker completely covered with felt on the base, there are no unsightly pock-marks left on handsome furniture.

Felt also protects the sensitive radio sets from possible damage if they happen to be put down carelessly.

It has no superior as an insulator.

**Other Uses for Felt in Radio**—Sets and parts manufacturers are only beginning to see the scores of uses to which American Felt Company's felt is adapted in and around a radio set.

## Our Service to the Radio Industry

Experienced felt men at either of our branches will be glad to discuss the uses of felt in radio with manufacturers

# WESTERN FELT WORKS

ESTABLISHED 1899

*Manufacturers of Highest Grades of Felts*

4031-4117 Ogden Ave.

CHICAGO, ILL.

*Branch Offices*

NEW YORK, N. Y.  
BOSTON, MASS.  
DETROIT, MICH.

SAN FRANCISCO, CAL.  
CLEVELAND, OHIO  
ST. LOUIS, MO.

## Felt for Protection

Felt has greater life—adds a finish to the loud speaker, loop aerial, cabinet, etc.—is more economical—felt slides easily over a polished surface, leaving no dull or marred path—it has excellent insulating qualities.

Felt is easier to handle and apply, therefore bringing economy to this process of production.

Felt has become the most practical base material for radio sets, loud speakers, loop aerials, etc.

Felt for packing insures safe shipment of delicate parts and high-grade cabinets.

Felt means better appearance and adds a selling advantage.



**Felt  
For Protection  
Any Color**

Radio sets, parts and accessory manufacturers can make this their headquarters for their felt supply. Entire process from converting raw wool to furnishing felt to exact size done in one plant, insuring quality production and quick deliveries. *Let us help you to design.*

## McGRAW-HILL CATALOG AND DIRECTORY COMPANY, INC.

Direct-Mail Department  
475 Tenth Avenue at 36th Street  
NEW YORK, N. Y.

### Direct-Mail Service

The logical use of direct-mail by radio manufacturers is in support of their creative and reference advertising and personal selling.

### Complete Service

The McGraw-Hill policy embodies rendering a complete direct-mail service to meet the requirements of any sales problem—marketing counsel, creative and printing service, addressing and mailing operations—any or all, according to your needs.

### Accurate Prospect Lists

Accuracy in mailing lists is the key to economy and increased results in your mail campaigns.

Only in an organization with the multiple contacts, resources and experiences of McGraw-Hill can you logically expect mailing lists that are accurate and reliable as is possible to provide.

The innumerable changes which continually take place in the radio dealer field makes it imperative for you to use a list that keeps pace with them.

Hence it is our policy of confining this phase of direct-mail service to addressing from *daily corrected* stencils.

### Radio Markets Covered

Radio manufacturers  
Radio wholesalers  
Radio dealers

### Selectivity

Selectivity in mailing lists is necessary to enable concentration on actual prospects and worth-while markets.

Therefore, our addressing stencils are so arranged and classified that selections can be made according to territory, types of products handled, etc. Radio sets, parts and accessory dealers can be addressed separately or in combination, without duplication of names.

This selectivity also enables the making of test campaigns, which are of particular economic value in determining appeals of most influence to prospective buyers.

No organization in the country has the complete equipment and facilities of this company for handling addressing to the radio field. Prompt and efficient service is assured on any direct-mail job, large or small.

An estimate of the cost of handling your addressing and mailing or complete campaigns will be made promptly on request.

## T. B. H. RADIO COMPANY

DANVILLE, N. Y.

### Viodyne Balanced Headset

This exceptionally fine headset was designed by a past master of phone design and is one of the most perfectly balanced headsets ever developed.

A special patented construction enables us to supply these standard, full-sized phones (approximately 2-in. diaphragm) at a price which is competitive with the usual cheaply constructed "Midget" size phone.

The Viodyne reproduces naturally the articulation of clear speech, yet yields both high and low overtones of the whole range of musical instruments—not merely low pitch—for the Viodyne Headset retains the higher notes unimpaired. Its power, sensitivity, and clear, smooth and natural tone are unsurpassed.



The Viodyne Headset has a thick aluminum case, double magnets, rustproof diaphragms and 2000-ohm windings. It is light in weight and comfortable on the head, yet sturdily built to withstand rough usage. The wonderfully balanced diaphragms are extremely sensitive, yet they will not blast or distort on heavy amplification.

The head band is made to fit comfortably. The head piece is formed of steel wire, covered with black webbing and equipped with adjustable yokes and slide rods. The cord is 5 feet long, black, with color tracer.

Each Headset is subjected to rigid tests before shipment.

Viodyne: List Price .....\$3.25

### Violona Headsets

Violona model is of the same standard parts, single magnet, 2000 ohms, same headband and cord as used in the Viodyne. A good, sensitive phone for those who wish to carry a low-priced headset.

Violona: List Price .....\$1.95

*Distribution through jobbers only. Write for particulars on our attractive proposition.*

# Soss Manufacturing Co., Inc.

Grand Avenue and Bergen Street

BROOKLYN, N. Y.

DETROIT OFFICE: 1051 Book Building, Washington Boulevard



## Soss Invisible Hinges

Soss Invisible Hinges offer the radio cabinet builder an unusual feature—when installed, no parts are visible. Shut the door and Soss hinges disappear from sight entirely. For the first time, the protruding butts common to most every door made, are eliminated, a flush surface and clean unbroken lines are now presented to the eye. This unusual feature makes Soss Invisible Hinges very desirable for finer cabinet work.

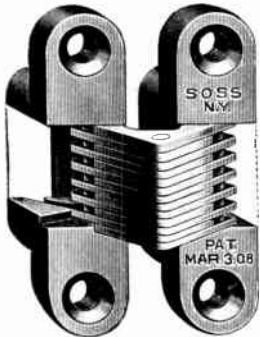
### Easily Installed

Soss Invisible Hinges require no special work or effort. They are applied to the same part of the door and jamb as ordinary hinges and work just as smoothly. But instead of being attached to



Style 110

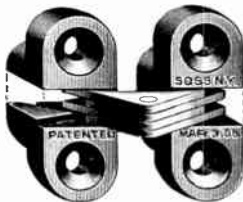
the door in the usual way, Soss hinges are mortised into the door and jamb, and are entirely invisible when the door is closed. No metal projects from either side of the door. No wide crack is visible when the door is opened, for Soss hinges fit right into the mortise. When the door is closed, Soss hinges cannot be reached or accidentally damaged—a safety feature of particular value to the doors of fine cabinets.



Style 101

### Unusually Strong

The short leverage and sturdy construction of Soss Invisible Hinges give them extraordinary strength and carrying power. Doors hung with Soss hinges will not sag and ruin the appearance of the cabinet.



Style 100

### Styles of Finish

Soss Invisible Hinges are made in three styles: Rukfast, Blunt and Polished. Rukfast is the assembled hinge, plated but not buffed or polished. Blunt hinges, assembled, buffed and plated. Polished hinges have the arm sections highly ground, buffed and plated. Hinges can be furnished in brass, nickel, bronze, or any special finish.



Style 103

Samples, prices and catalog sent on request

# COMPRESSED WOOD CORPORATION

Manufacturers of Wood Radio Horns

345-359 W. Austin Avenue

CHICAGO, ILL.

## Madera Clearspeakers

*Wood horns are good horns.*

Compressed wood horns offer a positive solution to the problem of acquiring the best acoustical value from any radio set.

### Console and Cabinet Models—

Such horns can be made in any shape and still retain the necessary inert, non-vibrating, non-absorbing character.

Our engineering staff is prepared to offer valuable assistance especially on built-in speakers of any size.



### Table Type Horns—

We have many stock numbers of Madera Clearspeakers.

These are made in four models—finished in black leatherette and in mahogany, with two styles of bases—one as illustrated—equipped with super sensitive, non-adjusting unit.

List Prices ..... \$10.00 to \$25.00

*We can also furnish horns without units.*



# FETHA-STEL PRODUCTS CO., INC.

Manufacturers of Radio and Phonograph Horns  
569 West Van Buren St., Chicago, Ill.



## Hi-Lo Radio Horns

The Hi-Lo Sound Chamber is made from a patented composition—a material which is light, yet very tough and will stand a great deal of rough handling without breakage. It can be shipped with little packing expense. Nails can be driven into this material or holes drilled into it without breakage, and due to its toughness it can be mounted at a very small expense.

The material is non-vibratory, therefore, the tone quality is exceptionally good. The round, sweet mellow tone can best be appreciated after having heard the Hi-Lo horn. With an installation of Hi-Lo, your speaker cabinets will prove even better sellers than they are now.

Shipped 4 to 12 horns to the carton.

Prices quoted are based on quantities less than 500 f.o.b. Chicago.

Standard finish is black.

Models shown are carried in stock for immediate shipment.

We build horns to your specifications



**Model R72**  
72-in. air column, 24 x 16 x 10 in. or 24 x 16 x 5 in.  
Weight, 7 lb.  
List Price . . . . \$10.00

**Model R49**  
49-in. air column, 6 x 28 x 12 in. Detachable bell. Any style of bell can be built on this horn.  
Weight, 5½ lb.  
List Price . . . . \$7.50



**Model R44**  
44-in. air column, 18 x 15 x 9 in. or 18 x 15 in. x 5 in.  
Weight, 4 lb.  
List Price . . . . \$5.00

**Model R36**  
36-in. air column, 8 x 28 x 12 in.  
Weight, 3 lb.  
List Price . . . . \$3.00



**Model R26**  
26-in. air column, 6 x 11 x 9 in. or 9 x 11 x 4 in.  
Weight, 2½ lb.  
List Price . . . . \$2.00



**Model R16**  
16-in. air column, 7 x 9 x 6½ in.  
Weight, 1½ lb.  
List Price . . \$1.50

# RACON ELECTRIC COMPANY, INC.

14 Greene Street  
NEW YORK, N. Y.

RACON ELECTRICAL CO., LTD., Slough, England  
RACON ELECTRICAL CO., 105 Sherbourne St., Toronto, Canada

## Horns Built to Specifications



**Type 200-A Loud Speaker Gooseneck Horn**  
We also make all other types

We are specialists in the manufacture of impregnated textile horns for loud speaker and receiving set manufacturers.

We also build sound chambers in any length of air column and in any design, in strict accordance with customers' specifications.

Our engineers are at all times ready to assist you in the development, design and production of your horns. Scheduled deliveries are assured.

It is a well-known fact that in order to take all the frequency that is present in music of all kinds, it is necessary to have an

air column of at least 6 ft.

The engineers of this company have developed the perfect horn—one with an air column of over 6 ft. that fits in a space of 1 ft.

The new Racon model is made of impregnated cloth in one piece and hardened under a patented process. It withstands all ordinary abuse and is not affected by atmospheric conditions. It has no vibrations of its own, therefore it is perfect for acoustical amplification.

We are also sole licensees for the manufacture of the flexible horn that can be adjusted and placed in any size cabinet.

*Racon Products are fully protected by patents.*



**Spiral Type Horn—6 ft. column in 1 ft. space**



# DeWITT-LaFRANCE COMPANY, Inc.

CAMBRIDGE, MASS.

## Superadio Dynometer

The first direct reading meter for the measurement of the dynamic on power values of radio tubes. Other types of testing meters employ the static method from which the dynamic characteristics must be calculated. In design, operation and results it is entirely different from any other instrument of its general type. Its extreme simplicity permits testing three tubes per minute without error, or resort to calculations or curves.

Its important uses are:  
 (1) Reading directly the amplification factor, plate impedance and mutual conductance.

(2) Matching tubes and classifying as R. F. or A. F. amplifiers or as detectors.

(3) Predetermining rough handling, operation on excessive filament voltages, under-ageing, low vacuum, poor filament wire, improper size or spacing of tube elements.

List Price .....\$120.00  
 Liberal discount.



## Model "C" Superadio Eliminator

Built especially for use with Radiola Models 25 and 28 and will fit in either side of their cabinets. Has provision for "C" battery also. Special master voltage control permits voltage regulation to any value regardless of the current being drawn. Model "C" may be used efficiently with any set. Tumbler switch in cable is provided.



Maximum output, 12.6 volts or 180 volts at 70 milliamperes. For use on 60 cycles, 110 volts a-c.

Overall size: Length, 12 1/2 in.; width, 5 in.; height, 6 1/2 in. "B" supply taps: Detector, 0 to 80 volts variable; 45, 67, 90 and 135 volts. "C" taps: 4 volts; 9 volts; 0 to 45 volts variable.

In office green enamel with rubber feet.  
 List Price .....\$17.00

## Superior Power Unit

This DeWitt-LaFrance unit supplies complete "A," "B" and "C" power to any radio set.

It consists of a Model C Superadio Eliminator with master control, a Tungar Trickle Charger and a Philco "A" Battery, space being provided for either a 4-volt or 6-volt battery.

Switching from operation to trickle charger is accomplished by throwing the G.E. tumbler switch to the desired positions.

All units mounted in a heavy-gauge green-enamelled metal cabinet, each unit in a separate compartment.

"B" supply taps: Detector, 0 to 80 volts; 45, 67, 90 and 135 volts.

"C" taps give 4 volts, 9 volts and 0 to 45 volts variable.  
 List Price, without trickle charger and battery.....\$68.00



## Announcing a New Eliminator

We shall soon be in a position to place upon the market a new model "B" eliminator. It will have a maximum output of 45 milliamperes at 135 volts, and is scheduled to sell at \$28 list. Watch for this unusual value.

# NATIONAL VULCANIZED FIBRE COMPANY

WILMINGTON, DEL., U. S. A.

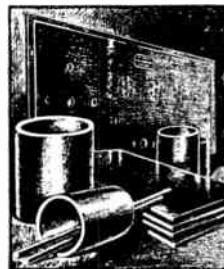
We Operate Six Great Plants and Maintain Sales and Service Offices at:

- |              |            |           |               |
|--------------|------------|-----------|---------------|
| Baltimore    | Birmingham | Boston    | Chicago       |
| Cleveland    | Denver     | Detroit   | Greenville    |
| Los Angeles  | Milwaukee  | New Haven | New York      |
| Philadelphia | Pittsburgh | Rochester | San Francisco |
| Seattle      |            | Toronto   | St. Louis     |

## PHENOLITE

Laminated BAKELITE

SHEETS: RODS:TUBES:SPECIAL SHAPES

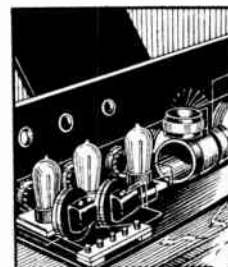


## Phenolite (Laminated Bakelite)

Made in six standard grades—each adapted to a specific use, and each of definite character and unvarying quality, made in accordance with our own scientifically exact formulae. For high voltage insulation we recommend Phenolite Grade "H."



Machine Phenolite (Laminated Bakelite) just as you machine wood or steel. It can be milled, punched, threaded, turned, tapped, sawed, drilled, bored, ground. For machining quality we recommend Phenolite Grade "P."



Radio panels and tubes of Phenolite (Laminated Bakelite) combine perfect insulation with great physical strength and fine machining quality. Phenolite has a dielectric strength of 700 to 1300 volts per 1/1000 of an inch. For radio panels we recommend Phenolite Grade "N."

Write for booklet—"Facts about Phenolite."

Made By The Makers Of National Vulcanized Fibre

# FIBROC INSULATION COMPANY

1005 Lincoln Avenue  
VALPARAISO, IND.

BRANCH OFFICES

BIRMINGHAM, ALA., Age Herald Bldg.  
CHICAGO, ILL., 31 S. Desplaines St.  
CLEVELAND, Ohio, 1034 St. Claire Ave., N. E.  
DENVER, COLO., 1422 Sixteenth St.  
DETROIT, MICH., 326 Ford Bldg.  
LOS ANGELES, CALIF., 211 South San Pedro St.  
NEW YORK, N. Y., 305 Broadway

PHILADELPHIA, PA., 244 N. Tenth St.  
PITTSBURGH, PA., Oliver Bldg.  
PORTLAND, ORE., 53 Fourth St.  
SALT LAKE CITY, UTAH, 306 S.W. Temple St.  
SAN FRANCISCO, CALIF., 509 Mission St.  
SEATTLE, WASH., Polson Bldg.  
ST. LOUIS, MO., Langan & Taylor Bldg.

CANADIAN OFFICE: TORONTO, 220 King St. W.



### Fibroc Bakelite Radio Panels and Insulation

FIBROC is used throughout the electrical industry as an insulator—some grades will withstand a voltage puncture of 600 volts per mil of thickness and a column resistivity of  $10^{12}$  ohms per cube, and surface resistivity if  $10^{11}$  ohms per cm. square. It is free from hysteresis and eliminates distortion.

FIBROC has an average tensile strength of 21,000 lb. per sq.in. FIBROC panels are several times stronger and more rigid than panels of any other material of equal thickness. They do not sag under the weight of panel mounted parts or deteriorate with age. They can be drilled easily without chipping or splitting.

FIBROC contains no sulphur to give a "bloom" and cause surface leakage. It is unaffected by ordinary solvents, oil, soldering flux, sunlight or climatic changes.

FIBROC has no melting point—it will not warp. FIBROC is non-hygroscopic, that is, it will not absorb moisture from the air, and therefore its insulating quality is never impaired.

FIBROC retains all of its beauty and desirable qualities without time limit. It will not "cold flow," screws or rivets can be tightened down without forcing the panel out under the pressure. Instruments and parts mounted on FIBROC panels can be relied upon to hold rigidly in place and keep their alignment.



### Beautiful Finishes

FIBROC-BAKELITE panels are examples of true beauty—their finishes rival those of the finest natural woods. They are made in mahogany, walnut, circassian walnut, high lustre and dull black finishes. They offer the manufacturer absolute harmony between panel and cabinet.

### Elaborate Effects

Through the development of a new process FIBROC-BAKELITE panels are now offered in inlaid wood, mother-

of-pearl, and marble effects—the most elaborate designs being beautifully reproduced to the smallest detail. This innovation in panels offers the manufacturer the opportunity of carrying out the complete finish of period furniture or specially designed receiving sets, with the panel of greatest efficiency.

### Fibroc Tubes

FIBROC tubes hold their shape. They offer a firm material on which to wind coils. They will not bend and therefore prevent distortion. FIBROC tubing is made in standard lengths and diameters.



### Chemical Test

A recent test by a chemical engineer brought out the following facts regarding FIBROC "B," a grade especially suited to use in radio work.

#### FIBROC "B"

(Sample  $\frac{1}{8}$  x 1 x 1 in.)

- Water absorption (two hours) .....2/10 in.
- Change in gauge .....0005 in.
- Di-electric strength ..... 600 volts per mil of thickness
- Tensile strength .....16,000 lb.
- Punches (hot) up to  $\frac{1}{8}$  in. in thickness
- Machines well—may be tapped and threaded.

### For Small Gears

Small gears for use in geared radio equipment or other electrical devices such as washing machines, vacuum cleaners, drink mixing machines, etc., when made of FIBROC-BAKELITE assure silent, positive service for a far greater length of time.

# MOULDED PRODUCTS CORPORATION

549-551 West 52nd Street  
NEW YORK, N. Y.



## Moulded Products

Specialized service to radio, electrical and mechanical industries covering mouldings in bakelite and other compounds.

Equipped to handle any production demands speedily and accurately.

Prepared to make immediate deliveries on radio tube bases and dials, rheostat knobs, sockets, etc.

## Sofrubba Standard VT Socket

A patented radio tube socket of soft live rubber 2½ in. in diameter. This sweeping improvement in socket design enables receiving sets to be economically fitted with sockets that really absorb the shocks.



The tubular contact sleeves provide a hugging contact firmly about the tube prongs.

## Features

It is a perfect shock absorber.

Durable—It is unbreakable.

Adaptable—Adaptable without change to top and subpanel mounting. Aligns itself perfectly to warped panels and imperfect panel drilling.

Positive—Gives a perfect hugging contact. Each contact is one continuous self-cleaning piece.

Universal—Takes UV and UX types of tubes.

Economical—Easily distinctive for low price.

Guaranteed—Unconditionally for 5 years, assuring you that the rubber characteristics will remain the same.

Deliveries—You are assured of deliveries, guaranteed by bond.

## Sofrubba Midget VT Socket

A tube socket of same material specifications as the soft rubber standard socket, but designed for a specific need.

It is only 2 in. in diameter, for special use in sets where space is limited.



# NORTON LABORATORIES, INC.

1025 Mill Street  
LOCKPORT, N. Y.

## Custom Moulding

In offering our services as moulders of bakelite, we have anticipated the growing need for the essential demands of the radio buyers. Our facilities both in equipment and personnel assure continued satisfaction. Below are some of the current radio items in which Norton mouldings are used.



## Lightning Arrestor

Made for Swan-Haverstick, Inc., Trenton, N. J.

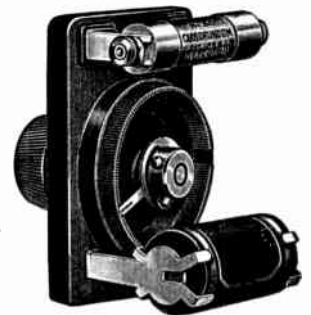
Dimensions: Height overall 2½ in., diameter 2 in., diameter of cap 3 in. Body carries outside thread, cap inside thread. Color, dark brown. Attachment to holding fixture made by machine screw engaging in threaded insert moulded into stem.

Our engineering advise is always at your disposal.

## Detector Stabilizer Unit

Made for Carborundum Co., Niagara Falls, N. Y.

Dimensions: 3½ x 2½ x 1½ in. Color, black. Top side carries circular groove for potentiometer mounting, also engraved markings in raised letters indicating proper connection points for detector and battery. Underside skeletoned to reduce cost and provided with specially located ribs for the winding of wire and holding of condenser. A standard 1½-in. arrow knob with moulded-in shaft is used for control. We take pride in having our workmanship satisfy.

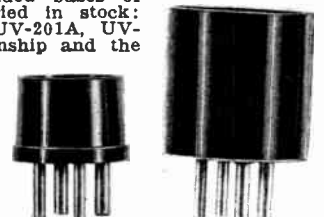


## Stock Items

**Knobs**—A distinctive and specially designed line of radio knobs has been added to the standard arrow knob line and includes three sizes: 2½, 1½ and 1-in. diameters provided with moulded pointers filled with white or gold, such that when used together they harmonize. The largest adapts itself to the condenser, fitting in with standard engraved panels. Where engraved panels are not in use, specially engraved metal plates are provided. The next in size adapts itself to rheostat use, while the third size has many uses where a small knob is desired, such as selector switches, midget condensers, etc. The pointers extend beyond the skirt ¼ in. on the largest size, ½ in. on the second largest, and ¾ in. on the smallest, blending back into the body of the knob to the extent of giving a substantial and pleasing appearance. All knobs are provided with a set screw and

brass bushing for ¼ in. diam. shaft unless otherwise ordered. Shipped from stock in bulk or packed in individual boxes.

**Vacuum Tube Bases**—Moulded bases of the following types are carried in stock: UX-201A, UX-112, UX-120, UV-201A, UV-199. The quality of workmanship and the special treatment which they undergo during their manufacture, make them especially attractive to the discriminating purchaser. Strong, lustrous finish, adapted for re-use, standard in dimensions, with moulded or spun-in prongs. Shipped from stock in bulk only.





# THE WATERBURY BUTTON CO.

Established 1812

WATERBURY, CONN.

*Branch Offices*

PHILADELPHIA 712 Denckla Bldg.	LOS ANGELES 1111 Wall St.	BOSTON 68 Essex St.
TORONTO 11 Richmond St. W.	NEW ORLEANS 210 Godchaux Bldg.	BALTIMORE 5 Hopkins Pl.
CHICAGO 230 So. Wells St.	NEW YORK 1140 Broadway	SAN FRANCISCO 435 Mission St.
CLEVELAND Burns Rd., No. Olmstead	ST. LOUIS 203 Bd. of Ed. Bldg.	

### Waterbury Products

- Attachments—Vernier
- Bezels—Panel
- Brackets—Sub Panel
- Brackets—Panel
- Clamps—Ground
- Clips—Battery and Electrical Test
- Condensers — Variable    Straight    Line    Wave  
Length
- Contacts—Switch
- Dials—Metal
- Dials—Composition
- Dials—Drum Type
- Drivers—Screw Insulated Handle
- Escutcheons—Panel
- Eyelets—Brass
- Insulation—Molded Composition and Bakelite
- Insulators
- Knobs—Composition, Metal, Battery and Character
- Plates—Name
- Plugs—Phone
- Posts—Binding Metal, Composition, Character
- Sets—Crystal
- Sockets—Vacuum Tube Single, Gang
- Stampings—Metal to order
- Terminals—Wire
- Transformers—Audio Frequency
- Variocouplers
- Variometers

### Over a Century in Business

The Waterbury Button Company enjoys the prestige and high reputation that come with over a century of manufacturing experience.

Activities in that long period have extended into almost every basic industry.

Whether jobber or set manufacturer, it will be to your interest to secure quotations on and samples of any desired items in the Waterbury line of radio parts.

# THE M & M CO.

500 Prospect Avenue

CLEVELAND, OHIO

BRANCHES: AKRON AND YOUNGSTOWN, OHIO

### Products

Manufacturers of M & M Lead-In Insulators, McLean Storage Batteries and McLean Radio "A" Power Units.

### M & M Insulators

Every antenna installation requires certain pieces for its construction, namely, wire, aerial insulators, a lightning protective device, a lead-in insulator and one or more wall or column insulators.



M & M Insulators are moulded of hard rubber with brass conductors through their centers. When installed they are absolutely wind, weather and waterproof and insure the best in insulation. The 4-in. size is for windows, the 10-in. size for walls and casings and the 20-in. size for brick walls and partitions. Each size packed in individual box; standard package, 25 boxes.

List Price, 4-in. . . . . \$ .50  
List Price, 10-in. . . . . .80  
List Price, 20-in. . . . . 1.50

### McLean Storage Batteries

Successfully built in our own plant and marketed since 1919. Over thirty thousand in use in Northern Ohio is ample proof of their exceptional quality. These batteries must not be confused with the ordinary storage batteries.

**Guarantee** — Every battery is unreservedly guaranteed for a period of 18 months.

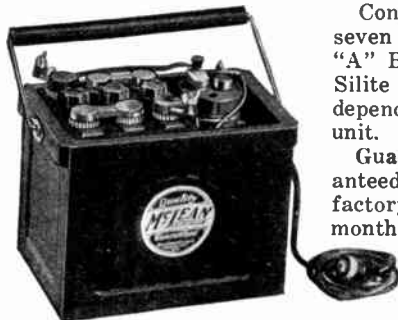


Type No.	Capacity, amp.	List Price
607	60	\$16.00
609	80	18.00
611	100	20.00
613	120	28.00

### Radio "A" Battery and Silite Trickle Charger

Consists of a full size, seven plate McLean Radio "A" Battery with built-in Silite Trickle Charger. A dependable "A" Power unit.

**Guarantee**—Fully guaranteed to render satisfactory service for 18 months.



List Price. \$30.00



# INDIANA STEEL PRODUCTS COMPANY

General Office  
4545 South Western Boulevard  
CHICAGO, ILL.  
FACTORY: VALPARAISO, IND.

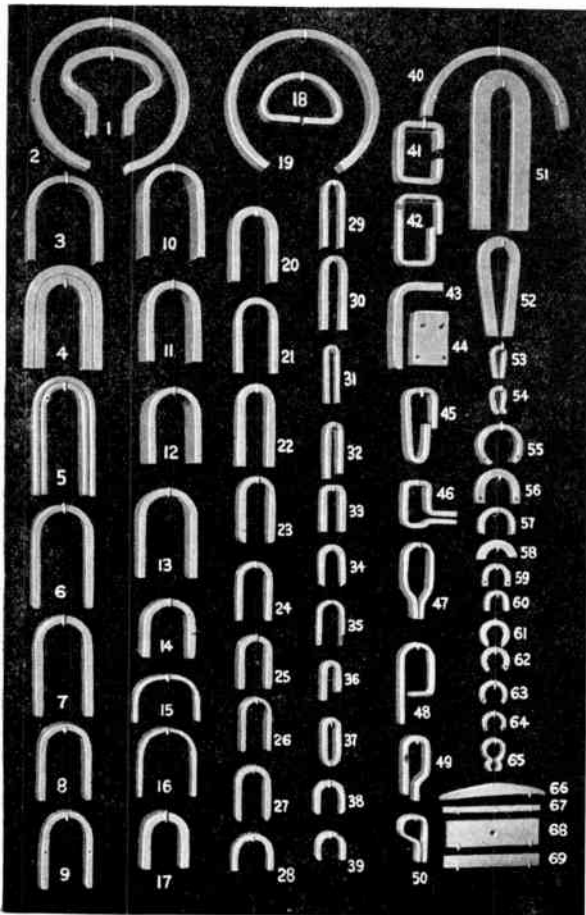
## Loud Speaker and Head Phone Magnets

As the pioneer manufacturers of Permanent Magnets of every size and description, we offer you the benefit of many years of research work together with our actual experience in catering to the requirements of the most critical users of quality Magnets in this country.

Since the inception of Radio, special attention has been paid, in our laboratories, to the development of Magnets best suited for use in Loud Speakers, Speaker Units and Head Phones.

We are manufacturers of Magnets exclusively and show in the illustration below a few of the many types which we are constantly producing.

If you are in the market, send us your blue prints or sketches for price and delivery. If you have Magnet problems, get in touch with us and let us work out a solution for you.



A Few of the Many Types of Magnets We Are Constantly Producing

# CROWE NAME PLATE & MANUFACTURING CO.

1749 Grace Street  
CHICAGO, ILL.

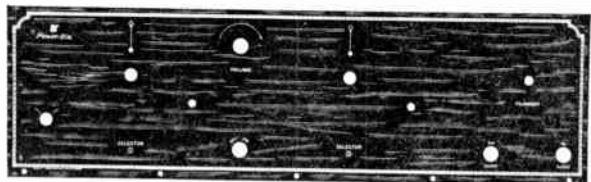
## Crowe Cable Markers



These markers indicate plainly and beyond possibility of mistake the cables leading to the various connections. Made of metal, with bold, black markings. Furnished in bulk in 23 standard markings. Also put up in packages containing 11 markers, these in turn packed twenty-five packages to the carton.

List Price, Per Carton  
\$6.25

## Metal Panel for B-T Power-Six

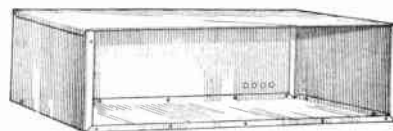


Made of bronze, completely drilled, ready for use, accompanied by necessary insulation. Size 7 x 24 in. Metal panel eliminates the necessity of separate metal shielding of panel on part of set builder.

List Price, \$6.50

West of Rockies, \$7.00

## Metal Shield for B-T Power-Six



Packed k. d. complete with screws. Made of brass. Size, 23 x 9 3/4 x 6 1/2 in. Used in conjunction with Crowe metal panel it provides complete metal shielding of receiving set.

List Price, \$7.50

West of Rockies, \$8.00

## HANSCOM RADIO DEVICES

WOONSOCKET, R. I.

### "Superunit" Set Tester

An indispensable aid to trouble men, home experimenters and DX fans.

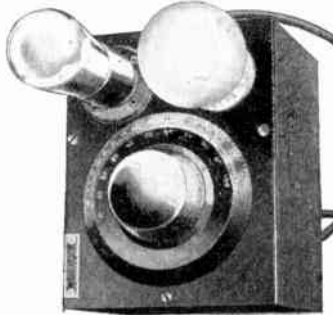
An oscillator wave meter with the dial calibrated in meters which operates directly from the 110 volt a-c. mains.

It will radiate a sharp signal on any wave length according to the dial setting.

Can be used to calibrate a receiver and to determine the wave length of any signal which is received.

Uses one 201-A tube and one 25 watt lamp.

List Price, each... \$10.00  
Packed 10 to the carton.



### "Superunit" Phonograph Reproducer

The "Superunit" Phonograph Reproducer is not a loud-speaker, but consists of an electric generator which is used in place of the regular reproducer on the phonograph.

The "Superunit" Phonograph Reproducer is hung in such a manner that only a small portion of the weight is supported by the needle. This prevents undue wear of the records.

The "Superunit" Phonograph Reproducer is furnished complete with volume control, mounting screws, attachment cord and instructions.

List Price, each... \$16.50  
Licensed under Hogan Patent 1,014,002.



### S-C Capacity Element

The most practical method for single control; can be easily applied to existing sets. It conforms to the standard layout and does not require the electrical connection of one side of the condensers together. The tuning dial controls both condensers while one is independently variable through a large angle.

2 Stage Type—Complete with dial, template and instructions, for Roberts, Browning Drake, Universal, Superheterodyne, etc. List Price, each... \$15.00

3 Stage Type—Complete with dial, template and instructions, for neutrodydes and tuned radio frequency. List Price, each... \$20.00

### "Superunit" Six Receiver

A six tube set employing the most up-to-date ideas.

Single Control, made possible by the use of the S-C Capacity Element.

Shielded Coils.

Three stages of Donle Truphonic audio provides ample volume with perfection of tone.

#### Power Operation—

The "Superunit-Six" can be furnished with series filament wiring and will operate with small tubes on any good B eliminator which will supply 70 milliamperes at 90 volts. This provides full power operation dispensing with A, B and C batteries. In ordering this type specify "Superunit-Six" Electric.

Cabinet—The "Superunit-Six" is enclosed in a cabinet which is of sufficient size for the B batteries, and is finished in two toned walnut with sloping panel.

List Price, without tubes or batteries,

\$85.00



## PREMIER METAL ETCHING CO.

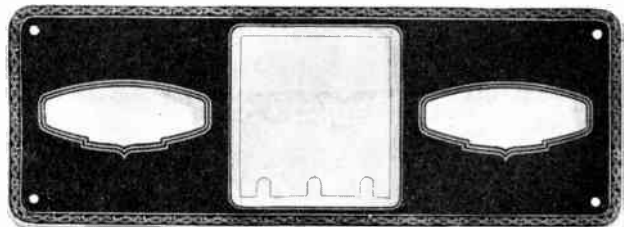
185 Fourteenth Street  
LONG ISLAND CITY, N. Y.

QUALITY *Premier* SERVICE

### Etched Metal Products for the Radio Industry

We manufacture, *to order*, etched and lithographed radio panels, nameplates, dials, escutcheons, scales and pointers *in all metals*.

All these radio parts can be rapidly and inexpensively produced by the etching process, whether the design be simple or ornate. In addition, they are unbreakable and are shipped to customer complete, ready for immediate assembly.



### Unexcelled Facilities and Service

Our modern facilities and trained personnel with many years' experience enable us to produce large or small quantities on schedule and in strict conformity with customers' specifications.

Our experts will co-operate with you in the development of etched metal parts for your product, without obligation on your part. Send us your specifications, samples or sketches, and let us lay figures before you.

*Send for samples of our work*

### Prominent Users of Premier Etched Metal Products

We supply some of the foremost radio manufacturers in the United States with etched metal products, including:

Brandes Radio Corp.  
Connecticut Telephone & Electric Co.  
Farrand Mfg. Co.  
General Electric Co.  
Priess Radio Corp.  
Radio Corporation of America.  
Timmons Radio Products.  
Westinghouse Electric & Mfg. Co.  
Wireless Specialty Apparatus Co.  
And many others.

# The Formica Insulation Company

Factory & Main Offices

4662 Spring Grove Avenue, Cincinnati, Ohio

Sales Offices

BALTIMORE, MD.,  
709 Title Bldg.  
BOSTON, MASS.,  
6 Beacon Street  
CINCINNATI, OHIO,  
4614 Spring Grove Ave.  
CHICAGO, ILL.,  
9 South Clinton Street

CLEVELAND, OHIO,  
516 Caxton Bldg.  
DENVER, COLO.,  
1420 Sixteenth St.  
HABANA, CUBA,  
55 Calle Obispo  
KANSAS CITY, MO.,  
508 E. 17th St.

MINNEAPOLIS, MINN.,  
1026 Second Ave., South  
NEW ORLEANS, LA.,  
Whitney Central Bldg.  
NEW YORK, N. Y.,  
129 Charlton Street  
PHILADELPHIA, PA.,  
725 Bulletin Bldg.

PITTSBURGH, PA.,  
422 First Avenue  
ROCHESTER, N. Y.,  
327 Cutler Bldg.  
ST. LOUIS, MO.,  
1326 Syndicate Trust Bldg.  
SAN FRANCISCO, CAL.,  
585 Mission Street

TOLEDO, OHIO, 419 Ohio Bldg.

## Laminated Phenolic Insulation

Formica offers a complete service on Laminated Phenolic Insulation for radio sets. This includes sheets, tubes and rods from which manufacturers with complete equipment can cut and machine such insulating parts as they require. It also includes fully machined and finished parts of Formica of all types.

## Formica Front Panels

Formica panels decorated by the Veri Chrome process and drilled or punched to any manufacturer's layout are available. These may be decorated in any one of a number of colors, or in two or three colors. Prices vary according to size, thickness of material, finish desired, nature of layout and number of holes. Quotations will be made promptly on receipt of blueprints or samples.

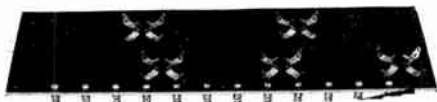


## Formica Sub-Panels

Formica for sub-panels may be bought in sheet form in any one of a number of grades and finishes of Formica and all work done by the radio manufacturer. Or the panels may be purchased cut to size with all holes drilled and punched ready for assembly.



Where desired these panels may also be marked with arrows or the identification of terminals either by the Veri Chrome process or by stamping.



**Completely Assembled Sub-Panels—**  
Where it is desired Formica will deliver completely assembled Sub-Panels with contacts riveted to the panel for  
Ux Tube bases, or with socket shells attached. Write for prices on making these panels to your layout.

## Formica Kit Panels

Formica panels decorated by the Veri Chrome process are provided for many of the leading kits and are sold by Dealers to amateurs who assemble their own sets.

- Bremer Tully Counterphase or Power Six 7x24x $\frac{1}{8}$  black polished, decorated in gold—drilled. Price.....\$5.68
- Browning Drake National 7x24x $\frac{1}{8}$  black polished, decorated in gold, drilled.....\$5.68
- H. F. L. Nine-In-Line Superheterodyne 7x26x $\frac{1}{8}$  black polished, not drilled.....\$6.00
- Victoreen Universal 7x26x $\frac{1}{8}$  black polished, not drilled.....\$6.00
- Victoreen Superheterodyne 7x24x $\frac{1}{8}$  black polished—decorated in gold, not drilled.....\$5.46
- Madison Moore Superheterodyne 7x30x $\frac{1}{8}$  black polished, decorated in gold, not drilled.....\$7.00
- Camfield Duoformer V 7x21x $\frac{1}{8}$  polished black decorated in gold, not drilled.....\$4.50
- Aerodyne Five Tube 7x28x $\frac{1}{8}$  black decorated in gold, not drilled.....\$6.40
- Karas Equamatic 7x28 black polished, decorated in gold, not drilled.....\$6.40
- Karas Equamatic Sub-panel 6x27x $\frac{1}{8}$  black polished Formica, drilled.....\$4.64
- St. James 8-tube 8x24x $\frac{1}{8}$  black polished, decorated in gold, not drilled.....\$6.30

## Cut Panels of Standard Sizes

Jobbers and dealers everywhere sell Formica panels cut to size and packed in individual envelopes.

## Formica Panel Finishes

Formica panels are provided in a number of finishes: Gloss Black; Sanded Black; Satin Black and Gloss and Satin Surfaces in Burled Walnut, Straight Grain, Walnut and Mahogany.

## Formica Tubes for Coils

These may be had in any size and in a variety of grades and finishes, threaded or plain.



## Formica Small Parts

Formica Washers, Condenser Ends, Jack and Transformer Insulation and Small Parts of all sorts.



# GENERAL ETCHING & MFG. CO.

3070-3082 W. Grand Avenue  
CHICAGO, ILL.

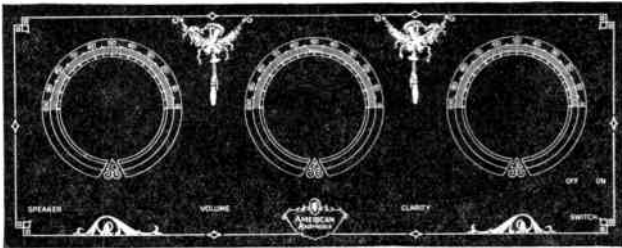
## Panels

**Etched Bronze, Brass and Aluminum Panels**—Made in a variety of attractive finishes and designs.  
**Steel Wood Grained Panels**—Standard finishes, such as mahogany, walnut, etc., processed with scale work and decorations. A popular style panel at a low price.

**Processing on Bakelite Panels**—We have special facilities for processing designs on your bakelite panels.

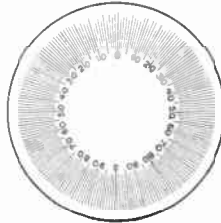
Any design can be reproduced either on processed or etched metal panels.

With considerably increased facilities in our large new plant, you are assured of quantity production to keep up with demand.



## Dials and Shields

In addition to panels we specialize in the manufacture of etched or lithographed metal dials and shields used in the radio industry for exterior mounting, also for panel window index scale.



## Other Products

Cable markers.  
Binding post markers.

Pointers.  
Name plates, etc.

**Special Items**—We are in position to manufacture any special items that may come within our line. We invite your inquiries.



Our large and modern plant—built to meet the growing demand for our quality products.

# THE LITHO-ETCHING CORPORATION

52 Vanderbilt Avenue  
NEW YORK, N. Y.

Phone: Vanderbilt 0480

BRANCH SALES OFFICES

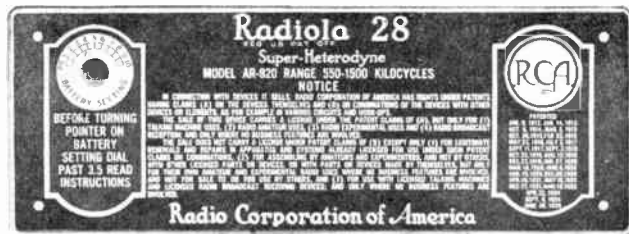
220 So. State St.  
CHICAGO, ILL.

General Motors Bldg.  
DETROIT, MICH.

## Manufacturers of Etched Metal Panels, Dials, Name Plates, Pointers, etc.

We are equipped to render prompt and efficient service to radio manufacturers in the quantity production of etched metal parts of brass, bronze, nickel silver, aluminum, zinc, etc.

Modern production methods and a skilled staff of designers and etchers insure faithful reproduction from your sample, blue print, or sketch. Often we can suggest improvements in design, etc., that will save you money and result in a more attractive display.

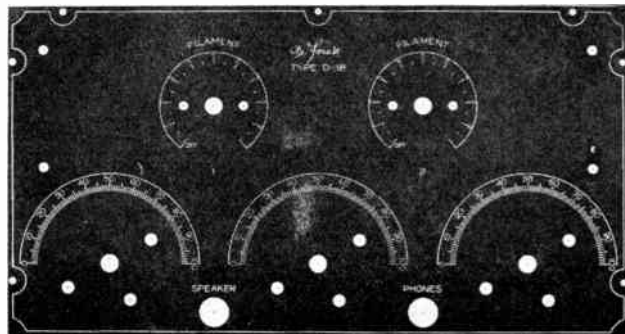


Name and License Plate



Vernier Dial

Our twenty-six years' experience in the business and our employment by prominent manufacturers in the radio and other industries indicates that we have a worth-while service to offer you.



One-piece Metal Panel



# L. F. GRAMMES & SONS, INC.

Manufacturers of Metal Specialties

ALLENTOWN, PA.

SALES OFFICES

25 West 43rd Street  
NEW YORK, N. Y.



City Centre Building  
PHILADELPHIA, PA.

## Grammes Metal Specialties

The Grammes line of products is widely used by manufacturers of sets and accessories. It includes large stocks of cabinet hardware, pins, nails, etc., and any special needs that are stamped, formed, etched, engraved, embossed, printed, lithographed, enameled or cast.

Over a half century's experience in supplying the needs of leaders in all industries has placed Grammes in a position to serve efficiently and economically.



## Advertising Signs

Any wording or design can be transferred on metal. It can be etched, black on brass or made up in our special processes, "Chemi-Color" and "Etch-Art."

An "Etch-Art" sign is illustrated. This is mounted plaque-like on stained wooden frame easel and chain hanger attached.

Whatever your needs in advertising signs, Grammes craftsmen will create and produce an effective job.

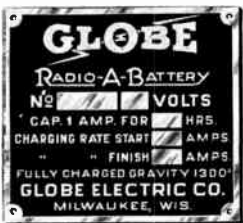
## Embossed Name Plates

Embossing is the term applied to raising in relief any wording or design in varying thicknesses. Grammes special "Vari-Tint" process permits a variety of 400 color combinations and tints—unlimited possibilities for an attractive name plate.



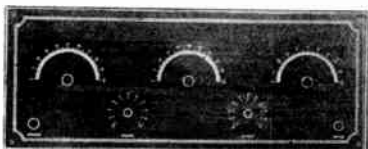
## Etched Name Plates

Produced by printing any wording or design with an acid resisting ink. Portions not so treated are "eaten away" chemically to a depth of about .005 in. The sharpness of outline obtained assures a very attractive, verile and durable plate. Made in any size or shape.

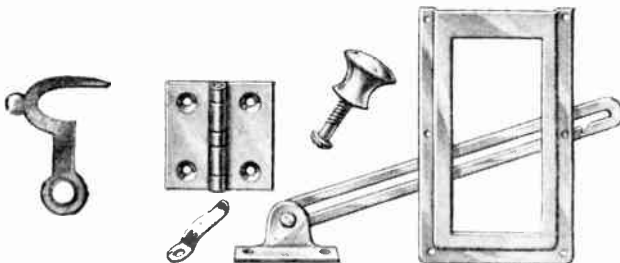


## "Etch-Art" Radio Panels

Panels, complete with dial markings, lettering, trademark, screw and shaft holes. Can be had with raised gold or silver markings on black, mahogany, mottled brown, or any finish background to match the set.



## Cabinet Hardware



**Log Chart Holders**—Several popular styles for holding instruction card or log chart. Attached with escutcheon pins. Prices on application.

**Knobs**—A large variety, fitted on wood screws or with nut. Metal, wood and glass heads. Prices on application.

**Lid Supports and Slides**—Several styles, plain or notched. Brass or steel with dipped, polished or nickel finishes. Prices on application.

**Hinges**—A large assortment. Prices on application.

**Hooks and Catches**—Stamped and friction spring. Prices on application.

**Eyelets and Wiring Clamps**—Prices on application.

Complete line of cabinet hardware shown in Grammes Catalog Z.

*If you haven't it, ask for it*

## Escutcheon Pins



Any materials in any finish—copper, silver, nickel, etc., gauges from 22 to 10 and in lengths from 1/4 to 1 in. inclusive. Round-head nails carried in stock. Any style made to order. Prices on application.

## Radio Dials

Here are some styles of metal dials made by Grammes.

The Grammes Research Department will co-operate with you in creating dials and other parts that will best serve your sets.

Send specifications for prices.



# POLYMET MANUFACTURING CORPORATION



599-601 Broadway, New York, N. Y.



### Polyplugs

A feature of the Polyplug is the tension slot which enables the phone cords to be pulled or jarred without the slightest disturbance to the actual contact. Made of genuine Bakelite; mechanically perfect; built for unusually long life.



List Price, No. 100 (Black) and No. 101 (Mahogany)...\$.50

### E-Z Plugs

Design and construction identical with the Polyplug, except that it is made of composition.

List Price, No. 200 (Black) and No. 201 (Mahogany) \$.35

### Poly Claro Plug

A new development for obtaining quality results over extreme tone range. Adds body, detail and definition to reception. Causes no "scrapy" sounds; no wire or adjustments, merely plug into loud speaker jack.



For sets without jacks connect Claro Plug binding posts to those on set, and attach loud speaker lead tips to Claro Plug binding posts.

List Price ..... \$1.50

### E-Z Extension Connector

This device permits loud speaker to be carried from room to room without moving receiving set.



No tools are required for attaching or detaching the terminals — tension slot construction.

Length of cord, ft. . . . .	Connector only	20	25	35	50
List Price . . . . .	\$.035	\$1.25	\$1.50	\$1.75	\$2.00

### E-Z Stat Rheostat

Popular for its great simplicity. Base fastens directly to panel as a 1-hole or 2-hole mounting, eliminating fuss of contact-arm adjustment. Base of great di-electric strength, tinned metal lugs for easier soldering.

Composition			Bakelite		
No.	Ohms	List Price	No.	Ohms	List Price
300	6	\$.75	600	6	\$.85
301	10	.75	601	10	.85
302	20	.75	602	20	.85
303	30	.75	603	30	.85

### E-Z Potentiometers

Made with the same care and precision as the E-Z Stat Rheostat.



Composition			Bakelite		
No.	Ohms	List Price	No.	Ohms	List Price
400	200	\$1.00	800	200	\$1.10
401	400	1.00	801	400	1.10

### Polygrid Leaks

Individually tested for guaranteed accuracy within 5 per cent reading marked. Noiseless in operation and protected from moisture.

List Price (0.25 to 10 megohms) .....\$.25



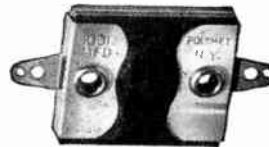
### Poly Resistors

Same high type of construction, materials, precision, individual testing and rating guarantee as in Polygrid Leaks.

5,000, 10,000, 15,000, 25,000 Ohms . . . . .	List Price	\$.75
40,000, 50,000, 75,000, 100,000 Ohms . . . . .		.50

### Poly Fixed Mica Condensers

Poly fixed mica condensers are precision made. Tinned metal plates and lug in one piece. Bakelite housing. Guaranteed within 5 per cent of capacity rating and against breakdown at 1000 volts.



Size, mfd.	List Price	Size, mfd.	List Price	Size, mfd.	List Price
.00015 . . . . .	\$.25	.002 . . . . .	\$.35	.005 . . . . .	\$.65
.00025 . . . . .	.30	.0025 . . . . .	.40	.006 . . . . .	.70
.0005 . . . . .	.30	.003 . . . . .	.45	.01 . . . . .	1.00
.001 . . . . .	.35	.004 . . . . .	.55		

### Polymet High Voltage Condensers

Tested and guaranteed against 1000 volts d-c. breakdown test. Non-inductive; high dielectric resistance.

Size, mfd.	List Price	Size, mfd.	List Price
.1 . . . . .	\$.60	2 . . . . .	\$1.50
.25 . . . . .	.70	3 . . . . .	2.50
.5 . . . . .	.80	4 . . . . .	3.50
1.0 . . . . .	1.00	5 . . . . .	4.50



Furnished in individual units or block condensers; fixed terminals or flexible leads, in cans or unmounted.

### Block Condensers for Raytheon Circuit

Have passed all laboratory tests with high rating.

Type F1000 Polymet Block Condenser—Contains all condensers needed in filter circuit, 14 mfd. Tapped at 1, 1, 2, 2, 8.

List Price . . . . . \$9.50

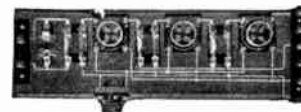
Type F1001 Polymet Buffer Condenser—Used across secondary of input transformer. Contains 0.1—c—0.1 mfd.

List Price . . . . . \$2.00

### Polymet Resistance Coupled Amplifier Kits

High quality kits sold at reasonable prices. Bakelite bases. Grid leaks and condenser holders are of finest phosphor-bronze contact springs.

Kit No.	A	B	C
Stages of resistance-coupled amplification	3	4	2
List Price	\$4.00	\$5.00	\$3.00



# HOWARD B. JONES

614-618 South Canal Street  
CHICAGO, ILL.



## Jones Multi-Plugs

**Type PM**—For mounting on panel. When this type is used, set wires are soldered to posts at back of socket (no binding posts are necessary).



- |  |        |
|--|--------|
| PM socket only .....                           | \$0.80 |
| Plug and 4-ft. cable only .....                | 2.20   |
| PM Multi-plug, complete with 4-ft. cable ..... | 3.00   |
| PM Multi-plug, complete with 8-ft. cable ..... | 4.00   |

List Price

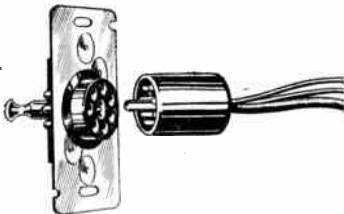
**Type BM**—When this type is used, set wires are soldered to back of socket posts (no binding posts necessary). Plug and 8-ft. cable leads to batteries, antenna and ground.



- |  |        |
|--|--------|
| BM socket only .....                           | \$1.30 |
| Plug and 4-ft. cable only .....                | 2.20   |
| BM Multi-plug, complete with 4-ft. cable ..... | 3.50   |
| BM Multi-plug, complete with 8-ft. cable ..... | 4.50   |

List Price

**Type WB**—Consists of multi-plug socket mounted on standard switchbox cover for use in dealer's demonstration rooms and for permanent home installation where batteries are in basement or wall space.



- |  |        |
|--|--------|
| WB socket only .....                           | \$1.30 |
| Plug and 4-ft. cable only .....                | 2.20   |
| WB Multi-plug, complete with 4-ft. cable ..... | 3.50   |
| WB Multi-plug, complete with 8-ft. cable ..... | 4.50   |

List Price

**Type BP**—This type is adaptable to any set now equipped with binding posts. No soldering is necessary. Simply connect the 18-in. leads on socket to the seven binding posts on set. Excellent for demonstrating the relative merits of sets.



- |  |        |
|--|--------|
| BP socket only .....                           | \$1.80 |
| Plug and 4-ft. cable only .....                | 2.20   |
| BP Multi-plug, complete with 4-ft. cable ..... | 4.00   |
| BP Multi-plug, complete with 8-ft. cable ..... | 5.00   |

List Price

## Double Plug Cable

For use where both set and power unit are equipped with Jones sockets.



- |  |        |
|--|--------|
| Double Plug Cable, with 6½-ft. cable ..... | \$5.00 |
|--|--------|

List Price

# The Davy Electrical Corporation

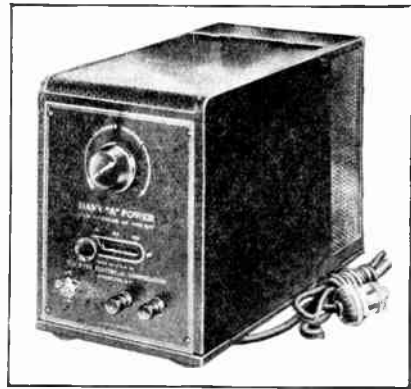
505 Court Street  
BROOKLYN, N. Y.

## Davy "A" Power

### The First "A" Power Without Battery

This "A" storage battery eliminator is neither a combination of storage battery and trickle charger, nor any other aid to a storage battery. It is in itself a complete unit, entirely eliminating the "A" battery and functions efficiently without hum.

The Davy "A" Power operates on 110 volts, 60 cycles alternating current. It rectifies the full A.C. wave, and by using a novel filter circuit, suppresses the ripple below the limits of audibility. It delivers an E.M.F. of 6 volts. A regulator prevents the voltage from rising over the limit value and overloading the filaments or damaging the tubes.



Types RFT, RFT-1, RFT-2

It may be used with any type of set, and has been found very popular for operation with 4 to 8 tube sets using 201-A type tubes. Thus it is very rapidly making the storage battery obsolete for this kind of work.

The RFD-99 type Davy "A" Power will operate from six to twelve 199 type tubes.

It provides a steady, unflinching current supply. Ordinary line voltage fluctuations will not interfere with reception.

The rectigon tubes operate considerably under their rated output and should last for thousands of hours.

Davy "A" Power is encased in a black japanned perforated sheet steel case. Sturdily built.

Size, 13x6x8 in.

Guaranteed to be electrically and mechanically perfect.

**Outstanding Features**—Davy "A" Power is complete in itself. It is not mechanical—not electrolytic. Has no condensers to break down—no moving parts—no storage battery liquids.

It is not a makeshift combination—it is the first practical "A" eliminator not containing a storage battery.

It has been subjected to the most severe tests with satisfactory results.

Dependable and noiseless in operation—no hum.

List Prices, Complete with two Westinghouse 2-ampere Rectigon tubes:

- |                                  |         |
|----------------------------------|---------|
| Type RFT-2 (2 amperes) .....     | \$55.75 |
| Type RFT-1 (1½ amperes) .....    | 52.00   |
| Type RFT (1¼ amperes) .....      | 47.50   |
| Type RFD-99 (0.75 amperes) ..... | 45.00   |

(Note: This latter unit is for 199 type tubes and employs a dry pressure contact rectifier instead of tubes.)



# The Acme Electric and Manufacturing Co.

Manufacturers of Acme Battery Charging Products

1444 Hamilton Avenue, Cleveland, Ohio

## Acme Battery Charging Products

These units are designed and built by engineers long experienced in radio. They are nationally advertised products and are exceptionally well-known both to the trade and radio public.



## Acme Universal "B" Supply Unit

Four-tap type. Gives excellent performance up to and including 6 and 8 tubes, including radio frequency sets. Smooths out every trace of ripple. Quality and volume of tone improved. No snap, crackle, noise or hum. Easy to operate. Fool-proof. Cannot burn out tubes in set or "B" supply unit. Has variable control and removable fixed resistance. Very compact. Any standard filament tube for rectification purposes may be used.



110 volts a-c, 60 cycles.

List Prices, East of Rockies

Type BE-30, without tube.....	\$32.00
Tube .....	3.00

## Acme Radio Control Switch

This switch is entirely automatic in its operation. Positive in action, functions properly, is compact in design, neat, attractive, nothing complicated in its construction to cause trouble.

When connected to receiving set, and set is turned on, the trickle charger automatically disconnects itself from A battery and the B power unit is connected to the set. When the set is turned off, the trickle charger is connected to the storage battery and immediately starts charging A battery; also the B eliminator is disconnected from the set and line.



May be used with any set regardless of type of charging equipment. Patented. Guaranteed.

Cost of operation negligible.

Should be a part of every set sold or now in use.

List Price, complete East of the Rockies.....	\$5.00
---	--------

## Acme "A" Power Unit

This "A" Power Unit is a combination of a 6-volt storage battery, especially designed for radio purposes, with an Acme Bulb Type Trickle Charger.

The trickle charger has two independent windings enabling storage battery to be charged either at rate of  $\frac{1}{2}$  or  $1\frac{1}{2}$  amperes by merely throwing toggle switch. Made in neat rubber case, so designed as to give proper ventilation. Quiet, simple to operate and constructed of the best materials.



List Prices, East of Rockies

Type APU-6, without bulb.....	\$35.00
2-ampere bulb .....	4.00

## Acme Universal Charger



With this Acme Universal Charger, a 4 or 6-volt battery may be charged, also 48 cells of radio B battery.

There are two independent windings on this charger and the batteries may be charged with the radio set in operation which, in many cases, is quite advantageous.

List Prices, East of Rockies

Type AU, without bulb.....	\$12.00
2-ampere bulb.....	4.00

## Acme Trickle Charger

This trickle charger uses a 2-ampere tungar bulb in its operation with a specially designed transformer with independent windings. The charging current delivered ranges from  $\frac{1}{2}$  to  $\frac{3}{4}$  amperes and consumes 25 to 40 watts of energy. Supplied with extension cord attachment.

The case is made of sheet steel finished with crystallizing lacquer, mounted on rubber feet, and presents a neat appearance.



List Prices, East of the Rockies

Type AT-1, without bulb.....	\$6.00
2-ampere bulb .....	4.00



# CHAMBERLIN ELECTRIC CO., INC.

Manufacturers of Chamberlin "B" Power Units

112 Chambers Street  
NEW YORK, N. Y.



## Chamberlin "B" Power

Delivers a maximum current of 50 mils at 180 volts. Efficiently operates any receiver from 5 to 9 tubes, including the new power tubes. Its current values are as follows: 10 mils at 225 volts; 20 mils at 210 volts; 30 mils at 200 volts; 50 mils at 180 volts; 60 mils at 150 volts.

**Voltage Variations Obtainable**—Taps are provided which give the following voltage variations: 16 to 67.5 for detector tubes, such as UV 200 A; 67.5 volts for radio frequency amplifier circuit, and 90, 135 and 180 volts for operating the audio amplifying stages using UX-120 or UV-171 power tubes in conjunction with UV-201A or other types. The range of audio voltage available through this exclusive arrangement permits distribution of load and voltages over the first audio, intermediate and power stages, in a way that insures maximum efficiency for the tubes and perfect reproduction.

Chamberlin "B" Power utilizes a unique double filter system which provides a steady and pure direct current. Rectifying in the a-c. model is accomplished with either a type "B" or "BH" Raytheon tube.



Type 105 Chamberlin "B" Power

**Type 105**—Operates on 50 to 60 cycles, 105 to 110 volts. The entire power unit is housed in a 9 x 6 x 8 in. satin finish steel box. The output connections terminate at a small bakelite panel on top. The panel contains binding posts, detector rheostat and snap switch. Furnished with ten-foot cord and plug. Weight, 30 lb.

**Type 110**—Will operate from any 110 volt d-c. outlet and protection is provided by means of fuses in the box.

List Prices  
**Type 105**, for a-c. only, complete with Raytheon tubes ..... \$47.00  
**Type 110**, for d-c. only..... 24.00

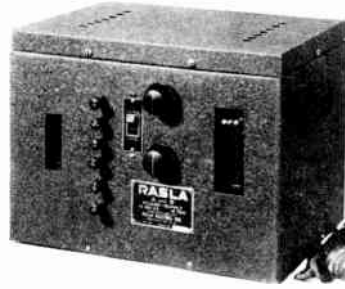
# RASLA ELECTRIC, INC.

193 West Ninth Avenue  
BROOKLYN, N. Y.

## Rasla—A Pioneer in Radio

The name Rasla is well known among radio fans and radio dealers. Rasla products mean quality and service to the consumer and profit to the dealer. There has never been any price cutting or unloading of Rasla products.

## Rasla "A" and "B" Supply



"A" and "B" Supply

A marvel of performance—furnishes complete power to the radio set. It gives steady unfailing B power to the plate, is noiseless in operation, humless and clear as a bell and provides steady undiminishing power to heat the filaments of the tubes.

The "A" power consists of a Willard glass case storage battery with gravity indicators in front always showing the condition of the battery, and a Rasla Trickle Charger.

The "B" supply is designed to operate sets up to ten tubes including the UX 112 power tube. The open circuit voltage is one hundred fifty and it has a variable R.F. voltage from zero to one hundred twenty-five and a variable detector voltage from zero to one hundred.

The Trickle Charger has a variable charging rate from 2/10th of an ampere to 65/100ths. The entire device is housed in a handsome antique green metal case and controls the set by just one switch including the filaments of the set.

List Price .....\$70.00

## Rasla "B" Supply

**Type 150**—Designed to operate sets up to ten tubes, including UX 112 Power Tubes. It furnishes power voltage of one hundred fifty, variable R.F. zero to one hundred twenty-five volts and variable detector zero to one hundred volts. It is very flexible and noiseless in operation. It uses the celebrated Rasla Electrolytic Rectifying Unit, a real scientific achievement.



"B" Supply (Type 150)

List Price .....\$38.50

**Type 150-A**—Same as above but without variable resistance. List Price.....\$35.00

## Other Products

Rasla D-c. "B" supply. List Price..... 21.50  
 Rasla D-c. Trickle Charger. List Price... 10.00  
 Rasla Power Control, a mechanical device to control the B supply and Trickle Charger. It throws the "B" supply on and cuts the trickle off when set is in operation—a device you can always rely upon.  
 List Price .....\$3.50  
 Rasla Crystal Detector. List Price.....\$1.25

# GRIGSBY-GRUNOW-HINDS CO.

4540 Armitage Ave.  
CHICAGO, ILL.



## Majestic-B Current Supply

Unexcelled in power, control and efficiency by any source of power supply for the plate circuits of radio receiving sets.

An oversize current supply unit insuring a reserve power to meet any condition imposed, always giving the power required to bring out the full tonal strength, yet with ample filtering capacity to positively eliminate the alternating-current hum.

It is this filtering circuit that represents the cost in any B eliminator—to reduce or cut costs here means a certain failure in results. Every unit in the Majestic is manufactured in the Grigsby-Grunow-Hinds factory, which means "one profit" values and a resulting selling price competitive with batteries.

Compare the Grigsby-Grunow-Hinds specification, with that of any other power unit. Compare the voltage range in the tables on the following page for milliamperage output.

The Majestic-B gives better results than B batteries because:

1. Voltage can be positively regulated.
2. Constant and uniform power is assured at all times.
3. Lower operating cost.
4. Improved tone quality and volume.

## Specifications of Majestic-B Current Supply

For 100-120 volts, 60 cycles, a.-c.

Cabinet finished in rich, black crystal enamel.

Dimensions, 10½ in. deep by 5½ in. wide by 9 in. high. Weight, 20 lb. net; 25 lb. packed.

Bakelite panel.

Complete with extension cord and attachment plug.

One Raytheon tube furnished with Grigsby-Grunow-Hinds protective packing.

Packed in individual padded carton.

Guaranteed for one year against electrical and mechanical defects.

A printed guarantee enclosed with each unit.



**Standard-B and Super-B Models**  
Super-B equipped with Separate Switch  
to control light circuit

## Majestic Super-B

Rating, 45 milliamperes at 150 volts.

For sets up to 12 tubes including the new 135-150 volt power tube.

General construction similar to the Standard-B except that a heavier filter circuit is provided. A super-power unit with a filter circuit beyond comparison. Has a separate switch to control the current from the outlet thus making it unnecessary to remove attachment plug.

This is the most popular model because of its refinements, and its capacity assures the owner that in the event that he may later acquire a larger receiver, his Super-B will have sufficient power.

List Price, complete, with Raytheon tube:

East of Rocky Mountains.....\$35.00  
West of Rocky Mountains..... 37.50

**Majestic Standard-B**

Rating, 45 milliamperes at 135 volts.

Especially designed for sets having not more than seven 201-A type tubes, or six 201-A plus one 135-150 volt power tube.

A popularly priced model for the average set. Tone quality vastly superior to that obtained from batteries. It is provided with four terminals, NEG, DET, INT, and AMP. The DET (detector) and INT (intermediate amplifier) have adjustable resistances which in conjunction with the "high" and "low" switch, afford a wide range of voltages. The voltage output of the model is regulated to meet the requirements of the average receiver in use today. Too much voltage input into the set would be harmful to the tubes.

List Price, complete, with Raytheon tubes:

East of Rocky Mountains.....\$32.50  
West of Rocky Mountains..... 35.00

STANDARD-B AND SUPER-B			MASTER-B	
Milli-Amperes	Low Position	High Position	Milli-Amperes	Max. Volts
0	220	310	0	275
5	200	268	5	260
10	177	240	10	250
15	162	220	15	240
20	145	207	20	230
25	132	192	25	220
30	118	176	30	210
35	110	165	35	200
40	100	154	40	185
45	88	143	45	177
50	78	124	50	168
55	67	112	55	158
60	57	102	60	150

**Majestic Master-B**

Rating, 60 milliamperes at 150 volts. This model has three adjustable resistances controlling all voltages. This is essential on sets such as Radiola Models 25, 28 and 30, where the current draw is very low.

The maximum voltage output is sufficiently high to operate not only UV-112 and UV-120 power tubes (135-150 volts) but also the latest super-power tube UX-171 (180 volts).

It will be found unequalled for sets having a heavy current drain, such as the 10-tube Zenith.

The Majestic Master-B is the last word in B eliminator construction.

List Price, complete, with Raytheon tube:

East of Rocky Mountains.....\$42.50  
West of Rocky Mountains..... 45.00



Master-B Model

**The Raytheon Tube—An Important Element in the Majestic-B Power Supply**

A most important element in the Majestic-B Current Supply is the Raytheon tube, endorsed by numerous radio engineers and radio editors, and generally recognized as the most satisfactory rectifying tube on the market.

Full wave rectification, no back surge, no filament, no liquid. Reserve power with 60 milliamperes capacity.

It is a necessity to the trade for those sets known as "B battery eaters." Current costs average 1/10 cent per hour as compared with from 3 to 7 cents per hour for dry batteries. The Majestic-B will soon pay for itself.

The Raytheon Tube in itself does not produce a

first-class B-Eliminator; that depends entirely upon the filter circuit, the proper balancing of transformer windings and choke coils. The Raytheon tube merely rectifies the alternating-current lighting circuit into direct-current. It is the Majestic filter circuit that makes the Majestic current supply so different from others.

The Raytheon tube is, in our opinion, the best rectifying means for B-power units available.

Raytheon tubes are warranted for 600 hours; on maximum output of 60 milliamperes they should last 1,000 hours. On the average 5-tube set they should give service of 2,000 to 3,000 hours or even longer.

The most important phase of perfect reception is that the detector voltages be exactly regulated to the requirements of the circuit and tube in use. This is impossible with ordinary battery connections.

List Price, each:

Spare Raytheon Type B Tubes.....\$6.00



G-G-H Specially Packed Raytheon Tube



## THE RELIABLE STORAGE BATTERY CO.

2135-57 Columbus Road  
CLEVELAND, OHIO

### Reliable A Power Unit

A most economical and dependable A power supply developed with respect to the most exacting demands. In a single olive-green, acidproof metal container, it is composed of a 40-ampere hour A battery and a bulb-type charger with a trickle charge rate of  $\frac{1}{2}$  ampere or a high rate of  $1\frac{1}{2}$  amperes, both rates regulated by a nickel-plated switch on front panel. The battery has specially processed pure oxide plates, insuring perfect service over a long period. Ventilation design prevents its overheating. Requires no use of chemicals or replacement of water.

Especially satisfactory for sets operating on as high as 8 tubes, because its high battery amperage makes charging during reception unnecessary.

Fully guaranteed for one year. List Prices  
Complete, 110 volts, 60 cycles.....\$34.00  
Complete, 110 volts, 25 cycles..... 35.00



### Reliable Storage A Battery

Users of Reliable Radio Batteries purchase battery capacity, and not just an over-sized box. Ampere-hour capacity, and not size or weight or number of plates, determines storage battery value. The capacity depends upon the amount of active materials in the battery. Every Reliable battery contains the best lead plates and acid solution possible to put in them, and every one receives careful finished inspection to assure its extreme activity and readiness for service.

Reliable Radio A Batteries are made in 60, 80, 100 and 120 ampere-hour capacities and are popularly priced.



## THE ELECTRIC HEAT CONTROL COMPANY

5902 Carnegie Avenue  
CLEVELAND, OHIO

"King" Trade-mark Registered in U. S. Pat. Off.

### King Products

King A and B Battery Chargers, Power Supply Units, Audio-Frequency Transformers, etc.

Inquiries solicited for building any type of radio transformer to specifications.

### "King B" Power Supply

Double wave rectifying, using UX 213 or similar tube. Any voltage from 0 to 120 on either detector or amplifier. 135 volt tap for power tube, supplies up to 8 tubes. Metal grained case  $11\frac{1}{2}$  x 6x6 in., walnut or mahogany finish. List Price, with tube .....\$50.00



### King "Type C-6" Charger

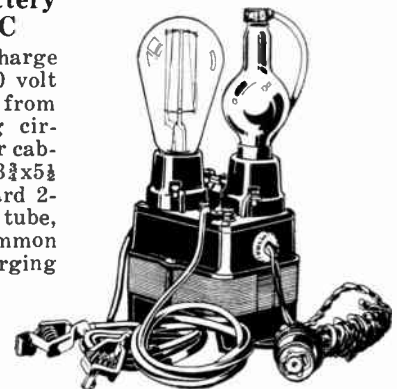
For charging 6 or more batteries in series at 5 to 6 ampere rate. Equipped with selector switch, meter, rubber-covered leads, porcelain bushings. Heavy steel case  $10x7\frac{1}{2}x9$  in. Finished in maroon, crystal lacquer. List Price with 5-ampere rectifying tube

\$60.00



### King A and B Battery Charger Type C

Designed to charge radio 6 volt A or 100 volt B batteries, in series, from common a-c lighting circuit. Exposed type for cabinet mounting  $5\frac{1}{2}x3\frac{1}{2}x5\frac{1}{2}$  in. Uses any standard 2-ampere charging tube, also a 60-watt common light bulb when charging B batteries. Also made in enclosed type. List Price either model, without tube .....\$11.50





# APCO MANUFACTURING CO.

Factory and Main Office  
1200 Eddy Street  
PROVIDENCE, R. I.

NEW YORK, N. Y., 154 Nassau Street

CHICAGO, ILL. 1438 S. Michigan Blvd.



### Distribution

Apco products are nationally advertised and made by an established company whose successful record guarantees their workmanship.

Apco products are sold only through carefully selected dealers.

### Apco Full Automatic "A" Battery Converter



No. 299

List Price .....\$19.50

Entirely new to the radio industry. When connected, it keeps the "A" battery always at maximum efficiency without care—none of the disadvantages of "A" eliminators. Full automatic—no switches or adjustments.

### Apco Rectodyne



No. 266

List Price .....\$29.50

Furnishes perfect "B" battery elimination for 110-volt alternating-current direct from light socket. No hum.

Complete with two Apco twin tubes.

### Apco Raytheon Rectodyne

For eliminating "B" batteries.

Furnishes 150 volts and 60 milliamperes.

No hum or interference; uniform smoothness.

Handsomely encased in one unit.

Equipped with Raytheon no-filament, gas-filled bulb.

List Price .....\$35.00



No. 274

### Apco "A" Battery Charger

Noiseless and efficient—maximum charging rate of 7½ amperes per hour—tapers down as battery becomes charged.

Handsome nickel finish.

Economical to operate.

List Price .....\$12.50



No. 277

### Apco Trickle Charger



No. 233

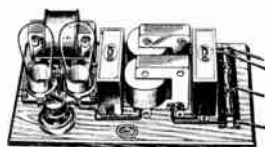
List Price .....\$8.50

For recharging "A" batteries.

Economical to operate—no jars to fill—no trouble.

Connects in lamp socket on any 110-volt a-c. circuit.

### Apco "B" Eliminator (Open Kit Model)



No. 265

List Price .....\$22.50

Rectodyne made in open mounting all ready to wire—assembly takes about one hour. Furnished complete with ten feet of cord, plug, all connections and two new Apco twin tubes.

### Apco Twin Radio Tube (Double Filament)

Two bulbs for the price of one—contains two filaments. When first filament is burned out, throw the switch on the base and the tube is as good as new. Tubes are standard in every respect.

List Price .....\$2.00



No. 270

### Apco "B" Battery Charger

Self-polarizing charger carrying 24 to 100 volts to "B" batteries without disconnecting the set.

Charging rate, 1/10 to 1/4 amperes. Uses ordinary electric light bulb.

List Price .....\$4.00



No. 299

# EAGLE CHARGER CORPORATION

121 North 8th Street, Philadelphia, Pa.



### Eagle Master Charger

Charges A batteries, full or trickle, at the turn of a switch. Charges B batteries of all standard voltages. Wires need not be disconnected from set or batteries (the Master being automatic in operation)—simply "point the arrow and throw the switch." All connections made in rear, making it particularly suited for cabinet use. No variable resistances in the form of lamps or coils for charging various size B batteries. Entirely automatic. Particularly suited for the new TAB rechargeable batteries that will be introduced soon. Charging rate for A batteries, trickle to 2 amperes; for B batteries, 45 to 135 volts. Mahogany crackle finish with copper and black background panel.  
List price (without tube).....\$21.00

### The New and Complete Line of Eagle Chargers

Eagle Chargers solve the problem of profitless overstocking of many brands to please many customers. They represent a comprehensive and complete line that not only meets all present-day demands but anticipates those of the future. There is an Eagle Charger to satisfy all demands for quality, performance or price and the rapidly increasing number of Eagle buyers is evidence of their popularity, based on high performance and dependable service.

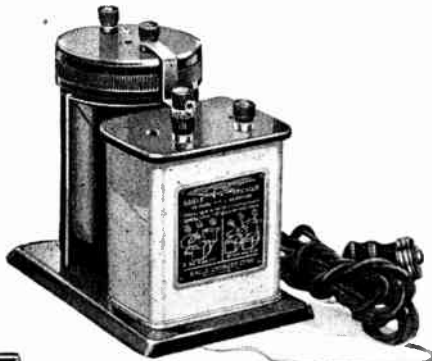


### Eagle Junior and Senior Chargers

Tube type rectifiers for charging automobile and radio 6-volt batteries at full 2 and 6-ampere rate.  
Charges B batteries up to 150 volts in series at 250 milliamperes.  
Straight transformer winding—cannot burn out radio tubes.  
Furnished with ample cable and markers, eliminating the possibility of a reverse hook-up.

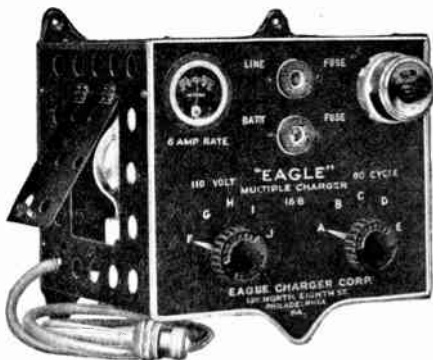
#### List Prices

Junior  
2 amperes (without tube).....\$14.00  
Senior  
6 amperes (without tube).....20.00



### Eagle Trickle Charge

Charges both A and B batteries—practically a complete power unit for the price of an ordinary trickle charger. It is shipped dry. No liquid chemicals used—just add plain water. Costs less than 2 cents per day to operate. Particularly suitable for the new TAB re-chargeable dry B batteries that will be introduced shortly.  
Charges A batteries at 1/2 ampere rate; B batteries at 250 milliamperes. Charges A batteries while listening in. Beautiful mahogany crackle finish.  
No corrosion of terminals.  
List price .....\$10.00



### Eagle 16B Semi-automatic Gang Charger

A tube type rectifier for service station work. Charges 1 to 16 automobile or radio batteries at 6-ampere rate. Will charge 16 batteries in the same length of time that it takes to charge one. Current consumption for 16 batteries is slightly less than 1 kw. per hour. Equipped with accurate ammeter, showing charge and discharge. Has double-pole, double-throw switch and is fused both in a.c. line and in battery circuit.  
Finished in black crackle with gold raised letters and gold border. Suitable lugs cast on case to either stand on bench or mount on wall. Equipped with one set of battery leads and tube complete.

List Prices,  
Complete

110 volts, 60 cycles.....\$ 85.00  
220 volts, 60 cycles..... 105.00

### Eagle 16B Automatic Gang Charger

Full automatic in every respect and most adaptable to rural sections where line voltage failures are very common. When line voltage fails, the automatic circuit breaker opens the battery circuit. When current again comes on, it automatically starts to charge the same as before. Contains all of the other features of the semi-automatic described above.  
List Prices  
110 volts, 60 cycles, complete.....\$ 95.00  
220 volts, 60 cycles, complete..... 115.00



### Eagle 5B Semi-Automatic Gang Charger

A tube type rectifier, service station charger. Charges from one to five 6-volt automobile and radio batteries at 6-ampere rate.  
Has patented magnetic control which permits charger to accommodate any line voltage from 100 to 140, thus eliminating the possibility of overcharging where the line voltage is low.  
Current consumption for 5 batteries is slightly less than 1/2 kw. per hour.  
Furnished with one set of battery leads and tube complete.  
Beautiful black crackle finish with gold-raised letters and border, together with accurate-reading ammeter.  
List Price, complete .....\$54.00

### Eagle 5B Automatic Gang Charger

Full automatic in every respect and most adaptable to rural sections where line voltage failures are very common.  
When the line voltage fails, the automatic circuit breaker opens the battery circuit. When the current again comes on, it automatically starts to charge the same as before.  
Contains all of the other features of the semi-automatic described above.  
List Price, complete .....\$64.00

# GENERAL ELECTRIC COMPANY

Merchandise Department  
BRIDGEPORT, CONN.



**Tungar**  
REG. U.S. PAT. OFF.  
BATTERY CHARGER

## 2-Ampere and 5-Ampere Chargers

Either of these Tungar battery chargers will take care of all radio "A" and "B" storage batteries from the largest installations to the smallest. They charge auto batteries, too.

They are quiet—the transformer is completely embedded in a compound.

Safe—the insulating transformer makes it impossible to burn out Radiotrons.

No radio interference—because an absence of moving parts eliminates any possibility of disturbing reception in the neighborhood.

Complete—charges 2, 4 and 6-volt radio "A" and 6 to 12-volt auto batteries at a rate of 2 to 1 amperes (2 ampere size) or 5 to 3 amperes (5 ampere size). Either size will charge 24 to 96 volt "B" storage batteries, in series, at 1/10 to 1/4 amperes.

Specially adapted for permanent installation so that battery charging may be controlled by merely throwing a switch.



Two-Ampere Size

Cat. No.	Cycles	A.C. Volts	Net Wt., Lb.	List Price
277153	60	110	10	\$18
279171	40-50	110	12	20
279172	25-30	110	14	22



Five-Ampere Size

Cat. No.	Cycles	A.C. Volts	Net Wt., Lb.	List Price
3049323	60	110	20	\$28
3049324	40-50	110	23	31
3049325	25-30	110	25	34

## Trickle Charger

For continuous operation with low capacity, 4 or 6-volt radio "A" storage batteries.

Convenient—once installed, merely inserting or pulling out a-c. plug starts or stops battery charger.

Safe—can be installed in radio cabinet or console. Cannot overheat or damage the battery or set. Approved and listed as standard by the National Board of Fire Underwriters.

Sturdy construction—the transformer is imbedded in compound and charger completely encased.

Variable charging rate—four terminals provide capacity for all requirements with either 4 or 6-volt storage "A" batteries.

Quiet—clean—and economical.



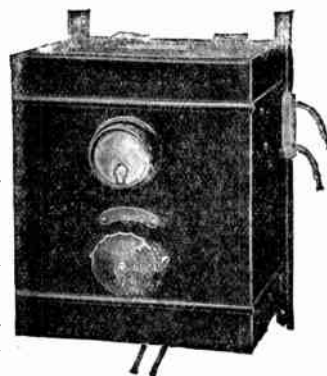
Trickle Charger

Cat. No.	Cycles	A.C. Volts	Net Wt., Lb.	List Price
3049336	60	110	5	\$12

## Four-Battery Tungars

Radio dealers, battery service stations and garages will find these Tungars well equipped to charge a number of batteries at one time—profitably.

They are easy to operate and are highly efficient. Their high quality is assured by the fact that they are the product of General Electric.



Cat. No.	Cycles	A.C. Volts	Net Wt., Lb.	List Price
183191	60	110	37	\$80
222847	40-50	110	47	100
222849	25-30	110	60	110



# AMERICAN MECHANICAL LABORATORIES, INC.

285-287 North Sixth Street  
BROOKLYN, N. Y.

## CLAROSTAT

### The Clarostat (Variable Resistance)

The Clarostat provides a positive, gradual, durable, reliable and fool-proof adjustment over a wide range of resistance values.

The Clarostat has a universal variable resistance ranging from practically zero to 5,000,000 ohms. Because of this great range and its current carrying capacity of 20 watts, (greater than that of any other variable resistor), the Clarostat covers all requirements encountered in present day radio reception, amplification, transmission and battery elimination.

The Clarostat has a universal radio resistance, offering *fixed resistance* where the exact fixed value is unknown, but must be arrived at through experimentation, and offering *variable resistance* where the resistance value is subject to constant or occasional change.



Actual Size

Provided with simplified means for connecting, the Clarostat is instantly available in any circuit for such uses as the precision control of modulation, regeneration, oscillation, grid action, plate voltage and general laboratory practice.

Its installation in a receiving set or other assembly calls for but one hole in the panel, drilled or reamed at the desired location.

Fifty-nine (59) manufacturers of "B" battery eliminators (Raytheon included) use and recommend Clarostats for the regulation of voltage output.

List Price .....\$2.25

# INTERNATIONAL RESISTANCE CO.

Perry Building  
DEPT. K  
PHILADELPHIA, PA.

## DURHAM METALLIZED RESISTORS

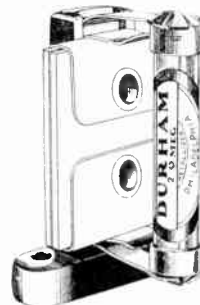
### Durham Resistors

The Durham Metallized Resistor is a scientifically perfected grid-resistor developed by two professors of a leading university. Noiseless and permanent.



List prices

500 to 10,000 ohms .....	\$1.00
10,000 to 200,000 ohms .....	.75
.25 to 5 megohms .....	.50



### Resistor Mounting

Made of moulded insulation of exceptionally high resistance and best quality, tension-spring, bronze contacts.

The only upright mounting on the market and occupies but little space in the set.

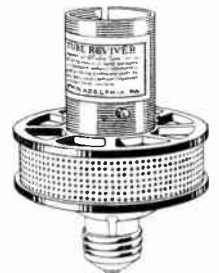
List prices

Single mounting .....	\$.50
For condenser mounting .....	.65

### Tube Reviver

Revives generally-used types of radio tubes — UX-201A, C301A, UV-199, and C-199. Simple to operate and meets a definite consumer demand. May be used in standard lighting socket of 110 to 120 volts, a-c or d-c.

List price ..... \$4.50



### Durham Power Units

For use in high voltage eliminators and amplifiers or where dissipation of power is required with no appreciable change in resistance rating.



List prices

Standard Power Unit 2½ watts maximum	Durham Super Power Unit 6 watts maximum
500 to 1000 ohms \$1.50	500 to 1000 ohms \$2.00
1500 to 250,000 ohms. .... 1.25	1500 to 250,000 ohms. .... 1.50



# WARD LEONARD ELECTRIC COMPANY

37-41 South Street  
MOUNT VERNON, N. Y.

## Vitrohm Resistors for Every Radio Use



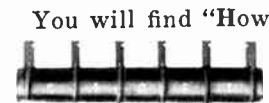
In the process of manufacture, Vitrohm Resistors stand far greater stresses than are ever met in radio service. Wire-wound on porcelain-like tubes and protected permanently by vitreous enamel baked at red heat, Vitrohm Resistors are immune to deteriorating action of acid, alkali, heat of soldering, iron, or even damp atmospheric conditions.

engineers specify Vitrohms.

Now they are available in values and sizes suitable for every radio resistance need!

Permanent resistance value—accurate rating—indefinite life—high current carrying capacity—rugged construction—ease of handling—these are all characteristics of Vitrohm Resistors.

Plate and current supply units, power amplifiers, transmitters and receivers, all have one or more places in the circuit where resistance must be used. To get the most out of the circuit, the resistance should be right—a Vitrohm Resistor is, of course, the answer.



Fixed, tapped resistances are the logical means for controlling output voltages of plate and current supply units, and power amplifiers. There are Vitrohm Resistors for all of the popular circuits. AmerTran, Thordarson, Varion, Raytheon, and Rectron are some of the standard units. Special values or sizes can be made for manufacturers or experimenters.

*Vitrohm Resistors are rugged, permanent units of resistance. They are not variable.*

More than 35 years of "knowing how" is back of Vitrohm Resistors manufactured by Ward Leonard Electric Company.

The worth of Vitrohm Resistors is known and recognized by all in the electrical industry; wherever current *must* be controlled accurately and permanently, en-



If you have 105-120 volt direct current, Model 73,401 with Type W accessories, Ward Leonard Battery Charging Rheostat solves the problem of simple, quick, battery charging. Its capacity is from 1 to 44 cells; the charging rate is up to 5 amperes. Other models cover every direct-current charging rheostat need.

# ARTHUR H. LYNCH, Inc.

Fisk Bldg., Broadway and 57th Street  
NEW YORK, N. Y.

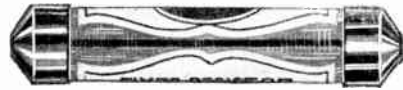
## Lynch Warranted Metallized Resistors

The Lynch Metallized Resistor gives conductive, non-arcing resistance that means absolutely silent operation, permanent accuracy and dependability.

The Lynch Resistor comprises a concentrated metallized deposit only one-thousandth of an inch thick upon a glass core and permanently sealed within a glass tube.

Extreme precision in every stage of its manufacture makes it possible to sell this better-built product upon an ironclad money-back guarantee.

Leading engineers, testing laboratories and experimenters have found that the Lynch Fixed Resistor will withstand the acid test of time and service.



Lynch Warranted Metallized Resistor  
List Prices

.25 to 10 megohms .....	\$ .50
Above .01 to .24 megohms .....	.75
.001 to .01 megohms .....	1.00

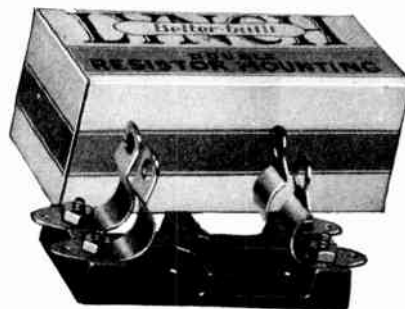
## Lynch Resistor Mountings

These low-loss mountings have genuine Bakelite bases and rigid phosphor bronze clips. Lug is end of clip—no noise due to poor contact.



Lynch Single Resistor Mounting

List price .....	\$ .35
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Lynch Double Resistor Mounting

List price .....	\$ .50
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## RADIALL COMPANY

50-52 Franklin Street  
NEW YORK, N. Y.

Manufacturers of

**AMPERITE**  
REG. U.S. PAT. OFF.  
The "SELF-ADJUSTING" Rheostat  
PATENTED

### Amperite—The Self-Adjusting Rheostat

The automatic filament control which eliminates all forms of hand rheostats from every type of radio receiving circuit and, by perfect self-adjustment, permits the uniformly efficient operation of vacuum tube filaments.

The fastest selling item in the radio field all year round.

Backed by five years of successful merchandizing.

*Specified in every popular circuit.*

*Nationally advertised.*

*Universally approved.*

*Unconditionally guaranteed.*

Packed in attractive display cartons of 25.

List Price—\$1.10 complete with mounting.



### There is an Amperite for Every Standard Tube

**Amperite No. 1-A (1/4-Ampere Type)**—For the UV-201-A, CX-301-A, C-301-A, UX-201-A, UX-200-A, CX-300-A, DV-2 or any 1/4-ampere, 5-volt tube on the 6-volt "A" battery.

**Amperite No. 4V-199**—For the UV-199, C-299, UX-199, CX-299, DV-3 on 4 1/2 volts (3 dry cells) or on 4-volt storage battery.

**Amperite No. 6V-199**—For the UV-199, C-299, UX-199, CX-299 and similar tubes on the 6-volt "A" battery.

**Amperite No. 112 (1/2-Ampere Type)**—For the UX-112, CX-212, UX-171, CX-371 and similar tubes on the 6-volt "A" battery.

**Amperite No. 120**—For the UX-120 and the CX-220 on 4 1/2 volts (3 dry cells) or on the 4-volt storage battery.

**Amperite No. D-11**—For the WD-11, WD-12, WX-12, CX-12, Northern Electric Peanut Tube or similar tubes on the usual 1 1/2-volt dry cell.

**Amperite No. 1**—For all 1-ampere, 5-volt tubes on 6 volts.

*Warning! Beware of infringing substitutes.*

## YAXLEY MFG. CO.

Makers of Automatic Power Controls

9 South Clinton Street

CHICAGO, ILL.

**YAXLEY**  
APPROVED RADIO PRODUCTS

### Automatic Power Control

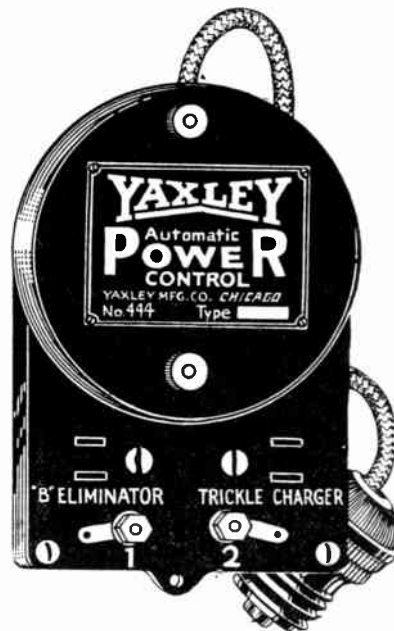
A new engineering device for simplifying radio operation. Eliminates plugging in sockets and turning several switches every time the set is turned on or off. Does away with needless burning of lamps—shortening their usefulness and unnecessary current draw on the batteries.

### Operation

These are some of the things the Yaxley Automatic Power Control does for the set owner. It does all the extra switching, takes care of B eliminator or trickle charger or both.

**When Set is On**—When set is turned on, the trickle charger is off and the B eliminator is on.

**When Set is Off**—When the set is turned off, the Automatic Power Control stands guard, working automatically, surely and without fail, turning off the B eliminator and turning on the trickle charger.



No. 444 Automatic Power Control, Series Type—for use with sets having tubes with a current draw equal to or greater than 6 UV-199 Type tubes.

List Price, each.....\$5.00

No. 445 Automatic Power Control, Multiple Type—for use with any set, but especially for sets having tubes with a current draw lower than that of 6 UV-199 Type tubes.

List Price, each.....\$6.00

*Send for illustrated catalog showing complete line of Yaxley Approved Radio Products.*

# CENTRAL RADIO LABORATORIES

16 Keefe Avenue, Milwaukee, Wisconsin



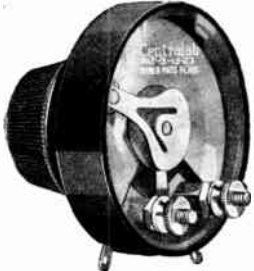
## Non-Inductive Variable High Resistances

These resistances give:  
*Stepless Control*  
*No Sliding Contacts*

*Noiseless Operation*  
*Lifetime Service*  
*Full Resistance Variation with a Single Turn of Knob*

### Radiohms, Modulators and Potentiometers

The resistance is a smooth graphite strip with pressure contact through a tilting metal disc. A sliding shoe furnishes the pressure but does not rub on the graphite at all and there can be no wear. Radiohms have two terminals and are used for grid or plate circuit controls in all types of radio circuits. Modulators have three terminals and are especially designed to provide gradual volume and tone control in all audio circuits. Base 2 1/4 in. in diameter. Base and knob of Bakelite. Single hole mounting with shaft and bushing insulated from current carrying parts.

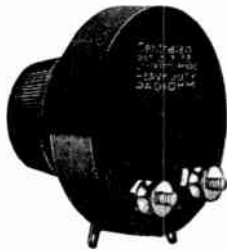


Radiohm

- No. 2M Radiohm, 0-2000 ohms.....\$2.00
- No. 25M Radiohm, 0-25,000 ohms..... 2.00
- No. 51M Radiohm, 0-50,000 ohms..... 2.00
- No. 100M Radiohm, 0-100,000 ohms..... 2.00
- No. 200M Radiohm, 0-200,000 ohms..... 2.00
- No. 500M Radiohm, 0-500,000 ohms..... 2.00
- No. 500M Modulator, 500,000 ohms for volume control... 2.00
- No. 110 Potentiometer, 400 ohms..... 1.75
- No. 111 Potentiometer, 2000 ohms..... 2.00

### Heavy Duty Radiohms

Constructed essentially like the above, these Radiohms have been especially designed for "B" Battery Eliminator voltage control. Insulation tested to withstand 1500 volts. Tested and approved by Raytheon Laboratories and used by many manufacturers. Resistance remains permanent as adjusted.

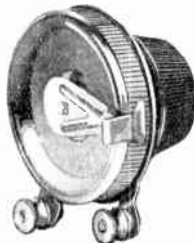


Heavy Duty Radiohm

- No. 50 M H.D. Radiohm, 0 to 50,000 ohms.....\$2.00
- No. 10M H.D. Radiohm, 0 to 10,000 ohms..... 2.00
- No. 2M H.D. Radiohm, 0 to 2000 ohms..... 2.00
- No. 2 M H.D. Potentiometer, 2000 ohms, 3 terminals.... 2.00

### Rheostats

Newly designed for the heavy duty service imposed by power tubes. All metal, with the resistance firmly clamped between insulated discs so that it cannot move or warp. This insures permanently smooth, noiseless and even regulation. Flat resistance ribbon used on low resistances to give heavy current carrying capacity and smooth control.



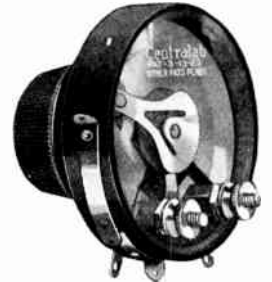
Ribbon Wound Rheostat

- Wire wound, resistance 6, 10, 20 or 30 ohms.....\$1.00
- Ribbon wound, resistance 2 ohms or 3 ohms..... 1.25

### Switch Type Radiohm or Modulator

Combines a positive quick acting "A" battery switch with an oscillation or volume control. Provides two essential controls at little more than the price of one.

Removes one more knob from panel and simplifies its appearance. "A" battery switch parts, spring bronze, nickel plated, with positive acting silver contacts.



Switch Type Radiohm

- No. 500M S Switch type Radiohm, 0 to 500,000 ohms...\$2.30  
 Tapered to control plate circuit of R. F. Amplifiers.
- No. 500M S Switch type Modulator, 500,000 ohms..... 2.30  
 Tapered for volume control in audio circuits.

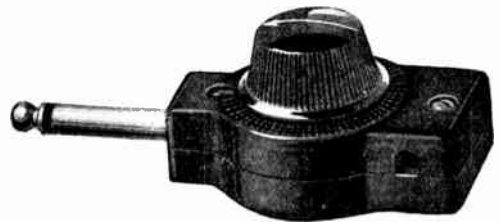
### Centralab Modu Plug

Provides tone and volume control for any set. Quickly attached



without tools. Gives any degree of tone volume from a whisper to maximum by turning the small knob on the plug. Matches the impedance of the speaker to the output impedance of the set.

Interfering noises are reduced and programs come in clear and true.



No. 1 Standard Type Modu Plug is for use on any set equipped with one or more jacks. Installed by simply substituted for the present loudspeaker plug.

No. 2 Cord Type Modu Plug is for any set not equipped with jacks. It is equipped with a 24-inch phone cord and is inserted between the speaker and the output binding posts of the set. Also suitable as a remote control of the receiver and essential where two or more speakers are operated from the same set.

All Modu Plugs have Bakelite base, with a small Bakelite knob on one side. A special counter display card furnished with every ten plugs.

- No. 1 Standard Modu Plug, as illustrated.....\$2.50  
 (for sets equipped with jacks)
- No. 2 Cord Type Modu Plug, equipped with 24 inch phone cord ..... 2.50  
 (for sets not equipped with jacks)



# HERBERT H. FROST, INC.

Manufacturers of Radio Parts and Accessories

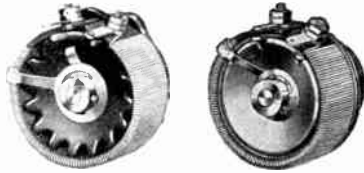
160 North La Salle Street, Chicago, Ill.

NEW YORK, N. Y., 30 Church Street

LOS ANGELES, CALIF., 443 San Pedro Street

## Type 700 and 800 Frost-Radio Rheostats

Ideal control units for both new and old type tubes. They have large current carrying capacity and will not overheat. The highest grade resistance wire is used; it is non-magnetic and non-corrosive. Made for single-hole mounting and equipped with pointer knobs. Supplied in standard resistances from 2½ to 75 ohms.



Type 700 Metal Frame Rheostat. List Price.....50c.  
Type 700 Metal Frame Potentiometer 200 or 400 ohms.

List Price .....75c.

Type 800 Bakelite Frame Rheostat. List Price.....75c.  
Type 800 Bakelite Frame Potentiometer 200 or 400 ohms.

List Price .....\$1.00



Type 880 and 890 Frost-Radio Super Variable Resistance

## Type 880 and 890 Series Frost-Radio Super Variable Resistance

For controlling volume, tone, regeneration, grid bias, etc. Smooth and silent in operation and show no wear or variation under severe operating conditions. Type 880 supplied in 50,000, 100,000, 200,000 and 500,000-ohm resistances. Type 890 supplied in 400, 2,000, 50,000, 100,000, 200,000 and 500,000-ohm resistances. Type 880 has two terminals. Type 890 has three terminals.

List Price, both types, each.....\$1.25



No. 530 Frost-Radio Socket

Takes all new type tubes. Made of bakelite and has strong, self cleaning springs.

List Price ....40c.



No. 611 Frost-Radio Bakelite Adapter

For fitting C-299 or UV-199 tubes to standard sockets

List Price..60c.



No. 540 Frost-Radio Bakelite Adapter

For converting standard sockets for tubes of the UX 199-CX-299 or UX 120-CX 220 type

List Price ...25c.



No. 140 Frost-Radio 2-Fone Plug

A practical and well made plug

List Price .....60c.



No. 142 Frost-Radio Single Fone Automatic Plug

List Price .....40c.



No. 141 Frost-Radio Bakelite Automatic 2-Fone Plug

List Price .....75c.



No. 143 Frost-Radio Double Fone Automatic Plug

List Price .....50c.



No. 330-335 Frost-Radio Extension Cords

Extensions 10 to 100 ft.

List Price .....\$2.00 to \$5.50



No. 335 Frost-Radio Extension Cord and Mounted Jack

Extension, 10 ft.

List Price .....\$1.00

## FROST-RADIO Frost Fones

Made by a factory with 30 years' experience in manufacturing telephone apparatus. Every step in their production is checked by tests and inspections to insure perfectly matched units. Frost-Fones have a pure tone quality and because of their sensitiveness are especially adapted to DX reception.

No. 172. 3200 ohm, bakelite shell and cap type, List Price, \$6.00

No. 174. 2000 ohm, aluminum shell type. List Price....\$3.00

No. 175. 3000 ohm, aluminum shell type. List Price.....\$3.50

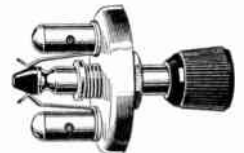


Frost Fones



No. 501 Frost-Radio Jac-Box Contains four jacks

List Price .....\$2.50



No. 608 Frost-Radio Push-Pull Battery Switch

Single hole mounting

List Price .....30c.

Frost-Radio Loop Plug and Jack

No. 250. Loop plug and jack

List Price .....\$1.50

No. 251. Plug only

List Price .....75c.

No. 252. Jack only

List Price .....75c.



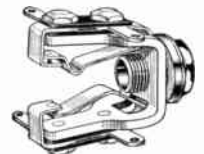
No. 253 Frost-Radio Automatic Cord Tip Jack

List Price, per pair.....30c.



No. 622 Frost-Radio Bakelite Toggle Switch

List Price .....50c.



Frost-Radio Gem Jacks

Small, compact and sturdy

No. 951 Double circuit

List Price .....50c.

No. 953. Single open circuit

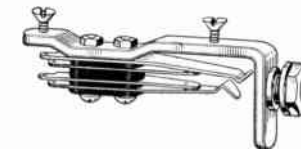
List Price .....40c.

No. 954. Single closed circuit

List Price .....45c.

No. 955. Single filament control

List Price .....50c.



No. 231 Frost-Radio Pan-Tab Jack

Double circuit, List Price..80c.

Others from .....65c. to 90c.

A very high grade jack, well made and finely finished.



Frost-Radio Standard Jacks

No. 921. Double circuit

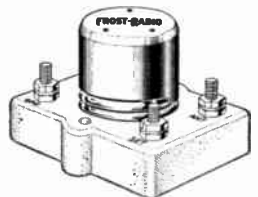
List Price .....60c.

Others, 45c. to 70c.



Frost-Radio Push-Pull Jack Switches

List Prices.....65c. to 95c.



Frost Radio Protector

No. 700. List Price \$1.50

# C. E. & H. T. HARGRAVES

Manufacturers of Radio Specialties

1103 Warwick Avenue  
LAKEWOOD, R. I.

## Neutra-Denser Neutralizing Condenser

Will neutralize any of the tubes now in common use. It is the only one of its kind which mounts directly on the grid terminal of tube socket; eliminates at least two connections. Easily adjusted and when once set it does not require any further attention.

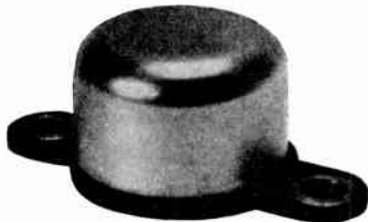


Made entirely of best grade materials throughout. Has highly nicked plated brass plates, insulated with India ruby mica. Mounted on pure bakelite base.

List Price, each.....\$ .75

## Silver Dome Fixed Crystal

Very sensitive and may be used in either crystal or reflex tube sets; positive in action; will not oxidize. Each crystal is individually set by hand on actual reception from a broadcasting station.

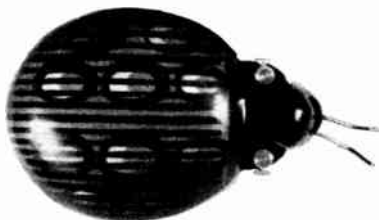


Solid gold cats-whisker and minerals enclosed in highly nicked cap. Base provided with eyelets for connections. Absolutely guaranteed.

List Price, each.....\$1.00

## Radio Bug Crystal Set

Made in the shape of a large bug; brilliantly colored. Each set supplied with Silver Dome Fixed Crystal. Tuning is accomplished by utilizing the bug's "feelers" to operate a single slide on coil concealed in base. Connections terminate to nickel plated binding posts located on bottom of base. Has extremely good volume and fair selectivity. Size, 5 x 7 x 2 1/2 in.



List Price, each.....\$5.00

# HOOD RUBBER CO.

Hard Rubber Dept.

WATERTOWN, MASS.

## Hard Rubber Radio Panels

These extra quality radio panels are distinctive and rich in appearance, and have all the superior electrical qualities that can be found in a high grade low loss panel including low dielectric constant and phase angle difference.

Two-in-one—one side Florentine design, other side plain black or mahogany—either side can be used.

Shows no finger marks or smudges because of the special Florentine design and finish.

Easy to drill and engrave.



## Hard Rubber Battery and Charger Cases

These popular combination charger and battery cases (for trickle or bulb type chargers) are made in all popular sizes.

Hood battery cases are *troubleproof*. They are sturdily built, extra thick and extra heavy, thus providing an extra factor of safety against undue stresses and strains at important points on the case. Built up to quality and proper dimensions—not built down to a price.

A slight bevel on the handle—a distinctive feature—makes the Hood case adaptable to certain makes of hold-downs in certain automobiles.

Inside dimensions of all Hood cases are *positively uniform*—no warps and no bows—and they always retain their original shape.

Carefully inspected and tested before shipment. Subjected to electrical test of 20,000 volts to determine weak spots, cracks or impurities. Handles are subjected to strength test to determine proper curing.

Careful manufacturing processes, high grade materials and rigid tests make Hood battery cases *troubleproof* and provide quantity production and quality to the battery maker.

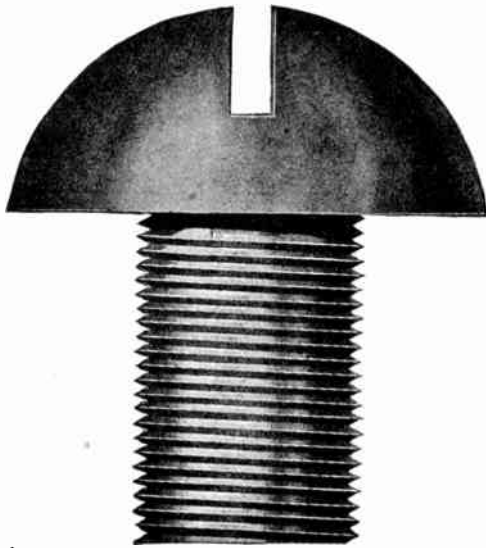


# THE BLAKE & JOHNSON COMPANY

Since 1849  
WATERBURY, CONN.

**Products**

- |                                   |                        |
|-----------------------------------|------------------------|
| Machine Screws and Nuts           | Screw Machine Products |
| Rivets                            | Inserts and Bushings   |
| Studs                             | Knurled Nuts           |
| Threaded Wires                    | Binding Posts          |
| Headed and Rolled Thread Products | Headless Screws        |
|                                   | Special Turned Parts   |



**Experience**

For over seventy-seven years we have specialized in headed and rolled threaded products and have furnished manufacturers in many industries with machine screws, nuts, rivets, pins, studs, threaded and formed wires and screw machine products which they have used in assembling their output. This fruitful experience is at the command of radio manufacturers who seek quality screw products which will save money on assembling costs. Send samples or blueprints for prices.

**Screws and Nuts**

Standard screws and nuts carried in stock for prompt delivery. Specials manufactured to your specifications.

**Screw Machine Products**

Turned brass parts furnished up to 1 1/4 in. diameter. All work is carefully cleaned and separated from chips.

**Threaded and Formed Wires**

Manufactured to order in various lengths and diameters from any metals. Send samples or sketches for price quotation.

**Cold Headed Rivets**

Made from the smallest diameter up to 3/8 inch in all materials.

# THE CHICAGO NUT MFG. CO.

2513 W. Cullerton Street  
CHICAGO, ILL.

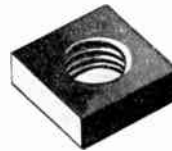
*Branch Offices*

- NEW YORK, N. Y., 109 Lafayette St.
- BUFFALO, N. Y., 76 Pearl St.
- ROCHESTER, N. Y., 46 Andrews St.
- SYRACUSE, N. Y., 107 Gifford St.
- ST. LOUIS, MO., Planter's Bldg.
- KANSAS CITY, MO., Reliance Bldg.
- CINCINNATI, OHIO, 1106 Union Trust Bldg.

**Products**

Machine Screws, Machine Screw Nuts, Brass Washers, Wing Nuts, Cap Nuts, Knurled Nuts, etc.

As one of the best equipped nut and screw manufacturers we can fill your needs from our huge stocks, or, if special sizes are required, ship in a short time after receipt of order. Proof of this statement is our large list of satisfied customers who continue with us year after year. Radio manufacturers will find both our product and shipping service the best. Let us show you.



**Brass Machine Screw Square Nuts**

All standard and 4 special sizes carried in stock.



**Brass Hexagon Cap Nuts**

Furnished in all standard sizes. Stocks carried for immediate shipments.



**Brass Machine Screw Hexagon Nuts**

Single and double chamfered. Wide range of sizes carried ready for immediate shipment.



**Brass Pressed Wing Nuts**

Smooth finish and uniform dimensions—5 styles of this type in stock.



**Steel Pressed Wing Nuts**

A new line having strength of drop forged but as low priced as malleable nuts. Smooth and well suited for nickeling. Five styles in stock.



**Brass Washers**

Carried in stock for Nos. 3 to 24 screw, small pattern—Nos. 8 to 24 large pattern; and for 3/16 in. to 1 in. bolt sizes.



**Brass Knurled Nuts**

Made in all standard sizes. Smooth finish and ideal for use on batteries of all sizes. Carried in stock.



**Brass and Steel Machine Screws**

A large stock of all standard sizes carried on hand for prompt shipment.



**Brass Knurled Screws**

Made in one style as shown in 6 sizes from 4-36 to 14-20 thread, and 1/8 in., 3/16 in., and 1 in. lengths. Stocked.

*Have you one of our catalogs?*



# PHEOLL MANUFACTURING COMPANY

5710 Roosevelt Road  
CHICAGO, ILL.

*Branch Offices:*

280 Broadway  
NEW YORK

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MINNEAPOLIS

205 Kresge Building  
DETROIT

966 Dexter Horton Building,  
SEATTLE, WASH.

703 Market Street  
SAN FRANCISCO



## Machine Screws, Machine Screw Nuts and Washers

We specialize in the manufacture of the Brass Machine Screws, Nuts, and Washers used for Radio Equipment.

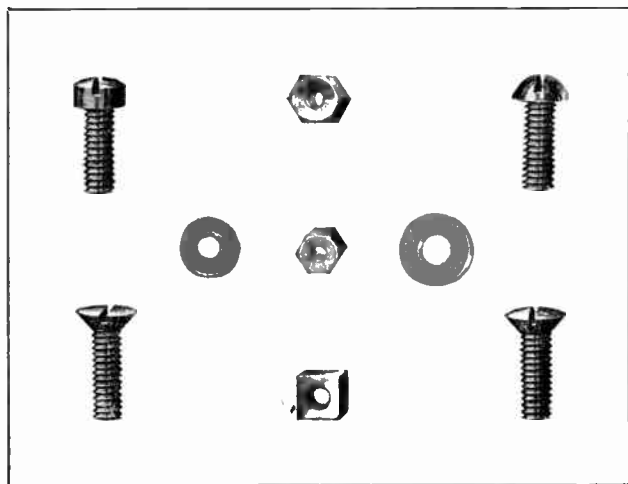
This product includes Standard Screws, Nuts, and Washers of which we carry a tremendous stock for immediate shipment.

It also includes a great variety of Special Screws and Bolts with different shapes and forms of head, Pointed Screws, Cross Drilled Screws, etc.

All products supplied in plain or plated finish.

We offer you excellent service on quality products at interesting prices.

Catalog sent on request.



A Few of the Many Standard Screws and Nuts Carried in Stock for Immediate Shipment

# SCOVILL MANUFACTURING COMPANY

Established 1802

WATERBURY, CONN.

NEW YORK  
BOSTON  
CLEVELAND

CHICAGO  
PROVIDENCE  
LOS ANGELES

PHILADELPHIA  
ATLANTA  
SAN FRANCISCO.



## Manufacturing Service

We have the capacity, special machinery, and a highly skilled organization to turn out an almost unlimited variety of manufactured goods to exacting specifications from brass, aluminum and steel, such as:

- Condensers—Variable and Vernier
- Condenser Plates
- Metal Stampings
- Dry Battery Nuts
- Screw Machine Products
- Hinges, Continuous
- Machine Screws
- Switches
- Metal Radio Panels

We supply manufacturers who make their own goods with unusually high grade materials such as:

- Sheet for drawing, stamping and etching
- Rod (high speed) for automatic screw machines
- Wire for screws and rivets
- Seamless tubing
- Bronze for springs
- Nickel silver for springs, etching, stamping and drawing.

A fine technical and mechanical staff with laboratories is at the disposal of our customers.

Member of Copper and Brass Research Association

# APEX ELECTRIC MANUFACTURING CO.

1410 West 59th Street

CHICAGO, ILL.

## Apex Receiving Sets and Consoles

Apex single dial, 6-tube receiving sets and consoles are products of true artistic craftsmanship that combine beauty with simplicity in operation. All advanced features are incorporated with watch-like accuracy, and the maximum of performance at the minimum of maintenance and upkeep is unconditionally guaranteed.

The following efficient contributions are embodied in



the Apex Six: One-dial control; impedance coupled; all distortion eliminated; illuminated dial; automatic filament control; other improvements of minute nature that guarantee the utmost in practicability and performance.

The handsome finish and simple, graceful lines of the Apex Six are establishing it as an essential furnishing in every home.

Apex Receivers are economically priced for ready sales and quick turnover.



**Model 16 Apex Receiver**

Six tubes. One-dial control with wave length dial, illuminated when set is operating. Permanent battery cable marked with color code. Double impedance coupling contributes greatly to true clarity of reception. Bronze panel. 5-ply walnut veneer cabinet with built-in loud speaker and double panel doors in new high-lighted finish. Price without accessories.....\$150.00



**Model 6 Apex Receiver**

Six tubes. One-dial control with wave length dial, illuminated when set is operating. Permanent battery cable marked with color code. Double impedance coupling contributes greatly to true clarity of reception. Bronze panel. 5-ply walnut veneer cabinet and door in new high-lighted finish. Phone jack cuts off amplification system and utilizes radio frequency and detector circuit only. UX side contact sub-panel sockets. Last audio stage for power tube. Cushion detector socket. Size, 23½ in. wide, 14½ in. deep, 10½ in. high. Price without accessories.....\$115.00



**Model 5 Apex Receiver**

Five tubes, transformer amplification. Five-ply walnut veneer cabinet with bronze panel finished to match. One-dial control, illuminated. Has all details that mark the perfection of Models 6 and 16. A set of exceptional merit and not to be equaled in its class. Performance is of the very best. Model 5 will satisfy the universal demand for an inexpensive unit of great capacity. Size, 20½ in. wide, 11 in. deep, 10 in. high. Price without accessories.....\$85.00

Also manufacturers of Apex Vernier Dials, Apex Battery Connector Cables and Apex Tube Reactivators



**Model 106 Apex Console**

Six tubes. A combination of Model 6 receiver and Model 100 console. Single-dial control of high efficiency. Impedance coupling superior beyond comparison to former methods of audio amplification. A modernized unit that attracts on sight and sells on performance. Overall size, 25½ in. wide, 17 in. deep, 42½ in. high. Price without accessories.....\$175.00



**Model 100 Apex Console**

Durably constructed of five-ply walnut veneer, finished inside and outside. All fittings are bronze and all sectional details are reinforced. The new high-lighted walnut finish resists scratches and bruises, and will not become dull with age. A work of art that attracts instant attention by its striking appearance. Price without accessories.....\$60.00



**Model 116 Apex Console**

Six tubes; built-in loud speaker. A combination of Model 16 receiver and Model 100 console. Beautiful table and cabinet finish. Handsome bronze panel. Single dial control and impedance coupling assures selectivity, performance and accurate control. Mechanically perfect and artistically superior. Overall size, 25½ in. wide, 17 in. deep and 48½ in. high. Price without accessories.....\$210.00

# BARBLEY RADIO COMPANY

307 Sixth Ave., New York, N. Y.



## The Barbley Console Receiver

In the Barbley Console we make an offering that must command every dealer's serious attention, regardless of any lines he is now handling or tentative plans for the future.

A standardized high-quality 5-tube tuned radio frequency console receiver at its remarkably low dealer price—\$36.00—is a leader which will certainly break down your sales resistance among that large class of possible buyers that are shopping for nothing less than a wonderful bargain.



Dimensions: Height, 37 in.; width, 31 in.; depth, 14 in. A commodious compartment is provided to contain batteries, charger, eliminator, etc.

Richly finished in two-tone mahogany veneer. Securely crated for re-shipment to customers.

Equipped with the famous Utah unit and built-in loud speaker.

Some of the Barbley features:

- (1) New universal shockproof sockets.
- (2) Adapted for use with power tube.
- (3) Variable control of selectivity.
- (4) Equipped with battery cable.
- (5) Perfect logging of all stations.
- (6) Specially designed modified SLW condensers.
- (7) Rugged, everlasting construction.
- (8) Separate "C" bias for first and second stages.
- (9) Functions perfectly with "B" eliminators.

The new Barbley receivers are built to most rigid standards of excellence in modern radio engineering. They incorporate the finest materials and are constructed under the supervision of experienced radio engineers with a view toward overcoming the drawbacks inherent in the average low-priced receiver. The owner of a Barbley radio receiver is assured of the advantages of the most up-to-date design in radio. We believe that the Barbley radio receiver offers more to the purchaser than any receiver on the market under \$100.

Dealers net price, f.o.b. New York, \$36.00  
 List price, Compact Table Model in Duco finished cabinet ..... \$45.00

# BATTERYLESS RADIO CORPORATION

116 West 65th Street

NEW YORK, N. Y.

## Bat-ry-les Receivers

Bat-ry-les receiving sets are built to operate from the house current whether d-c. or a-c. All that is necessary is to connect to the light socket, install tubes, connect aerial and ground, open switch on front panel and the set is ready to operate.



Direct current is always applied to filaments. When alternating current is used, it is rectified by means of a filtering system. No batteries, trickle chargers, chemicals or acids are used and no eliminators are needed. Standard 201A and 301A tubes are used. When operated on a-c. circuits two 2-ampere standard Tungar tubes are required in addition to the standard radio tubes to rectify current.

Tuning is very simple. Filament dial controls all tubes as a unit. All currents entering the receiver are filtered

and each tube receives an equal, constant, steady, uniform amount of current, free from all noise and distortion.

Three models—table; console; baby grand. Each employs two stages of tuned radio frequency, detector, and two stages of audio frequency. The a-c. console model is universal—may be used with either a-c. or d-c. The d-c. table model is for direct current only. A-c. and d-c. console models and baby grand model are equipped with Baldwin unit and horn.



Console Model



Baby Grand Model

### Table Model (Mahogany Finish):

	List Price
D-c. ....	\$140.00
A-c. (Rectifier and separate cabinet included) ..	200.00
<b>Console Model (Mahogany Finish):</b>	
D-c. ....	195.00
A-c. ....	255.00
<b>Baby Grand Model (Burr Walnut Finish):</b>	
D-c. ....	400.00
A-c. ....	450.00



# WILLIAM E. CHEEVER CO.

Manufacturers of Radio Sets and Parts

1167 Broad Street  
PROVIDENCE, R. I.

## Wecco Junior Receiving Set

Designed to meet the demand for an efficient and compact crystal receiver. It has a long receiving radius when used in conjunction with a 100-ft. aerial, ground and a pair of 2000 ohm head phones.



The entire set is enclosed in a neatly constructed 6 5/8 x 4 x 4 1/8 in. wood cabinet and finished with genuine brown crystalline lacquer. An adjustable crystal detector, tuning dial, and four binding posts are

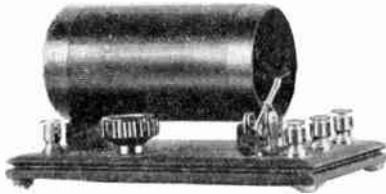
mounted on the highly polished, 4 x 5 in., bakelite panel. All metal parts are nickel plated and polished. The base has four rubber feet to prevent scratching polished surfaces. Full operating instructions are included with each set.

List Price, less accessories.....\$3.50

## Wecco Gem Receiving Set

Constitutes the simplest form of radio crystal receiver. It is very efficient and compact and has been especially designed to sell at a very low price. Both radio signals and receptions can be plainly heard with this set when used in conjunction with a good aerial, ground and head phones.

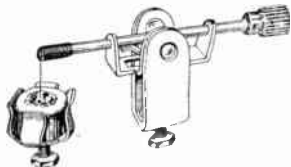
It consists of a tuning coil made of enameled wire and wound on a 2 x 4 in. cardboard cylinder, an adjustable crystal detector and four binding posts. Tuning is accomplished by a rotating knob with spring arm. All parts are mounted on a 5 3/8 x 3 1/4 x 3/8 in. wood base and handsomely finished with black crystalline lacquer. All metal parts are nickel plated. The base is provided with four rubber feet to prevent scratching of polished surfaces. Complete operating instructions furnished with each set.



List Price, less accessories.....\$1.00

## Wecco Unmounted Crystal Detector

Made of brass with the exception of black composition knurled finger grip. The rocker arm is rigidly held on socket bearings between spring clip; easily adjusted vertically. Adjustable slide rod moves back and forth and is held in any desired position by means of spring pressure. Tested crystal is mounted in a cup and contains a number of highly sensitive spots. A brass spring on end of adjustable slide rod provides the proper contact with crystal. Nickel plated finish.



List Price, unmounted, without crystal .....\$ .15

# CHELSEA RADIO CO.

Factory and General Office  
179 Spruce Street  
CHELSEA, MASS.

## REPRESENTATIVES

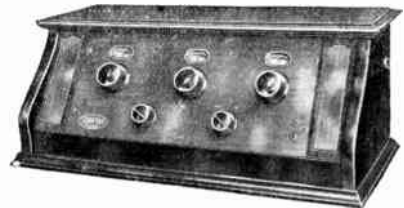
S. BOSTON, MASS., HASTINGS ELECTRIC SALES Co., 42 Bimford Street  
NEW YORK, N. Y., HASTINGS ELECTRIC SALES Co.,  
BUFFALO, N. Y., J. H. AMBROSE Co., 295 So. Elmwood Ave.  
CLEVELAND, OHIO, HENGER-FAIRFIELD Co., 1531 W. 25th St.  
CHICAGO, ILL., R. S. DRUMMOND, 440 S. Dearborn St.  
ST. LOUIS, MO., MID-WEST SALES COMPANY, Main Office, 1127 Pine St.  
KANSAS CITY, MO., MID-WEST SALES COMPANY, Branch Office, 216 E. 14th St.  
ST. LOUIS, MO., N. E. HILL & Co., 608 Wainright Bldg.  
MINNEAPOLIS, MINN., FREDERICK B. HILL, 208 Commercial Bldg.  
PHILADELPHIA, PA., L. B. UNDERWOOD Co., 244 N. 10th St.  
WACO, TEXAS, MCLENDON HARDWARE Co.  
PORTLAND, ORE., H. W. MACLEAN, 55 N. Park St.  
SAN FRANCISCO, CALIF., BALDWIN PACIFIC Co., 640 Natoma St.  
SAULT STE. MARIE, CANADA, IMPERIAL RADIO Co., Cullis Bldg.



## Chelsea Radio Receivers

Produced by one of the oldest and best known manufacturers noted for dependable merchandise. Each Chelsea Set is a manufactured entity—not an assembled job and incorporates the latest, approved developments in radio.

### Tru-tone



Type—Tru-tone Circuit based on tuned radio frequency principle.

Tubes—Six UV 201A or equivalent. Even better results are obtained with 5-UV 201A and 1 new power tube UX 171 in last stage.

Controls—3 Tuning dials.

Rheostat—1 Improved type governs volume.

Battery—"A"—6-volts, storage type. "B"—90 volts, 45 volts for detector, 180 volts for power tube operation.

Antenna—Simple outdoor type.

Cabinet—Beautiful 2 tone mahogany finish with inlaid panels.

Features—Straight line condensers, rugged bus wiring with hand soldered connections, fool-proof, dust-proof inside panel, convenient cord leads for making all connections, window indicators, improved "on" and "off" switch with silver contacts.

Dimensions, Inches			List Price
Height	Width	Depth	
9	21 1/2	11 1/2	\$60.

## Model No. 125 Super-Five

5 tubes Tuned Radio Frequency with above Chelsea construction features.....\$50.

## Model No. 140 Regular

3 tube Regenerative with Chelsea features of construction .....\$26.

## Guarantee

"Chelsea Receivers Always Were and Always Will Be Guaranteed."

# Diamond T Radio Manufacturers

SOUTH BEND, IND.

## The Diamond T Line

The Diamond T line embraces three models of receiving sets and consoles, with a price range from \$49.50 to \$89.50.

The \$49.50 is a five-tube set.

The other models are six-tube sets.

## Super Special Model Receiver

Tuned radio frequency.

Five UX-201A tubes or their equivalent.

Three-dial control.

One rheostat governs radio frequency tubes.

Diamond T automatic resistance on audio frequency and detector tube.

Diamond T automatic resistance on low wave length volume control.



Super Special Model, \$49.50

### Batteries:

"A"—Six volts, preferably storage type.

"B"—Ninety volts for amplifier tubes.

Forty-five volts for detector tube.

Outdoor, indoor or Ducon antenna.

American walnut finish cabinet.

Five-ply veneer panel with inlay.

Built-in speaker.

Weight, 18 lb.

Dimensions:

Height, 9 in.

Width, 26 in.

Depth, 10 in.

List Price ..... \$49.50

## "Diamond Special" Model

Same specifications as super special except the following:

Single Control.

Six UX-201A tubes or their equivalent.

Weight, 20 lb.

Dimensions:

Height, 9½ in.

Width, 26½ in.

Depth, 11½ in.

List Price ..... \$68.50

## Baby Grand Console Model

Tuned radio frequency.

Six UX-201A tubes or their equivalent.

Single Diamond Deluxe control.

One rheostat governs radio frequency tubes.

Diamond T automatic resistance on audio frequency and detector tube.

Diamond T automatic resistance on low wave length volume control.

### Batteries:

"A"—Six volts, preferably storage type.

"B"—Ninety volts for amplifier tubes.

Forty-five volts for detector tube.

Outdoor, indoor or Ducon antenna.

American walnut finish cabinet.

Five-ply veneer panel with inlay.

Twin built-in speakers; one high pitch, one low pitch.

Weight, 52 lb.

Dimensions:

Height, 30 in.

Width, 36 in.

Depth, 16 in.

List Price ..... \$89.50



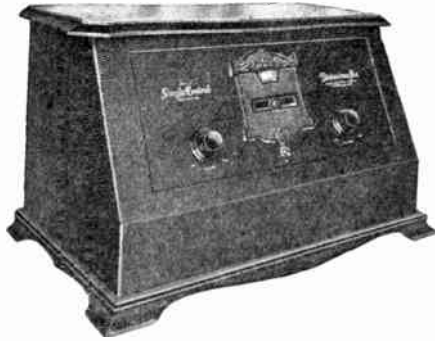
Baby Grand Console

List, \$89.50

# DISTANTONE RADIOS, INC.

LYNBROOK, LONG ISLAND, N. Y.

## Distantone



**Model "F" Single Control, Six Tubes**

Beautiful solid mahogany cabinet, highly finished. Control board panel of genuine walnut burl Bakelite, size 7 x 16 in. artistically engraved in gold. Overall dimensions: length 20 in.; depth 14 in.; height 12½ in. Wave-length range, 200 to 580 meters.

List Price .....\$115.00



**Model "C" Single Control, Five Tubes**

Walnut cabinet, hand-rubbed finish. Overall dimensions: length 17 in.; depth 12 in.; height 11 in. Three straight line frequency condensers are mounted on one shaft. A vernier knob operates the stators of the individual condensers, bringing them into perfect alignment on any given wave length. Wave length range, 180 to 550 meters.

List Price .....\$75.00



**Model "B" Three Dials, Five Tubes**

Solid mahogany cabinet, ebony finish around all edges. Panel, 7½ x 19 in., composed of high finish three-ply veneer walnut with ebony edges. Strip effect throughout entire cabinet and front panel. Overall dimensions: length, 20 in.; depth 9½ in.; height 9 in. Wave length range, 200 to 570 meters.

List Price .....\$47.50

**Model "A"**—Same as Model "B" except with plain panel and edges and smaller dimensions as follows: 16 x 9 x 9 in.

List Price .....\$37.50



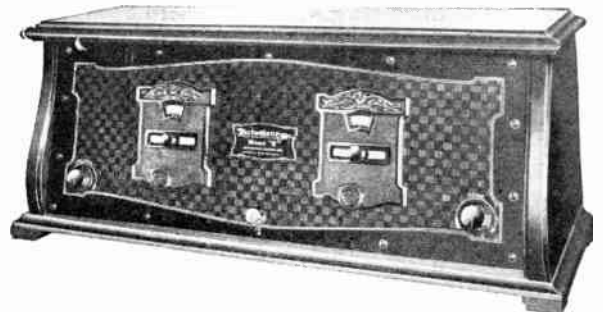
**Model "E" Console Power Receiver, Two Dials, Five Tubes**

All batteries eliminated by a unit consisting of a Raytheon "B" eliminator and a newly developed and highly efficient "A" battery eliminator which does not employ any liquids, chemicals or rectifying tubes. Tube equipment calls for one Raytheon and five 201-A type tubes.

Beautiful duo-tone solid walnut cabinet, highly finished. Panel control board is of metal, artistically decorated in duo-tone effect. Equipped with built-in speaker of great volume and tone clarity. Panel dimensions: 20 x 9 in. Overall dimensions, 15½ x 30½ x 45 in.

Model E Console, with power unit. List price.....\$325.00

Model E Console, without power unit. List Price....\$165.00



**Model "E" Two Dials, Five Tubes**

Richly finished two tone cabinet with harmonizing checkered panel. Two condensers mounted on one shaft are equalized by the use of a small compensator condenser. Antenna condenser operated separately. One volume control. Overall dimensions; length, 20 in.; depth, 10 in.; height 9 in. Wave length, range 180 to 550 meters.

List Price .....\$60.00

**Vernier Dial**

Made of genuine Bakelite in the following colors: black, mahogany burl and walnut burl. Size, 3½ x 4½ in. Ample space for station logging.

List Price.....\$1.50

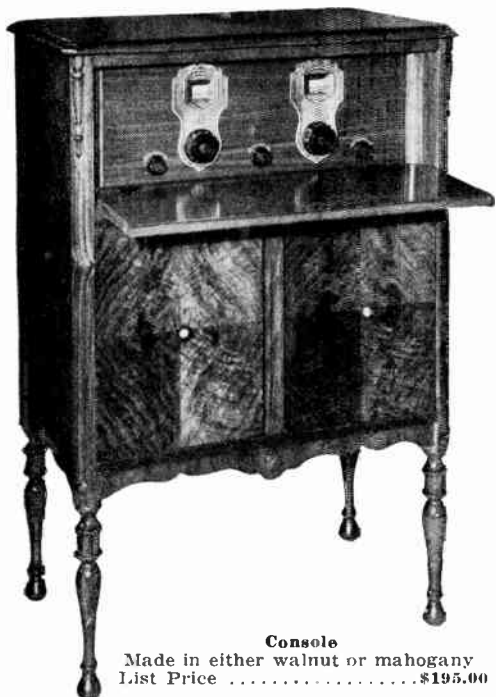
Write for circular giving full and complete particulars and trade discounts.



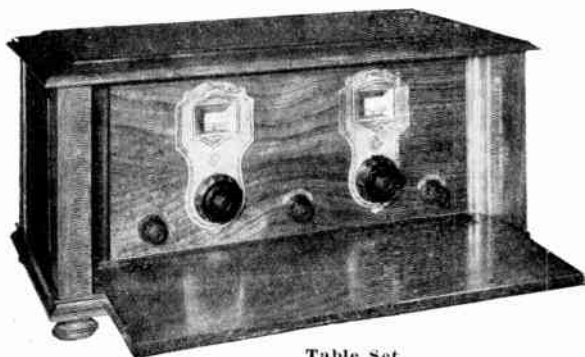


# DAVID GRIMES, INC.

Office and Factory  
151 Bay Street, Jersey City, N. J.



**Console**  
Made in either walnut or mahogany  
List Price .....\$195.00



**Table Set**  
Made in walnut with either a dark or light finish  
List Price .....\$150.00



**Table Set**  
Finished in mahogany  
List Price .....\$88.50

### Viking Receivers

The Viking is a six-tube, totally shielded receiving set which incorporates two stages of sharply tuned radio frequency amplification, vacuum tube detector, and three stages of distortionless audio amplification. Single control with vernier adjustment. Volume control. Antenna adjustment.

### Viking Imperial Receivers

Six tubes, totally shielded. Three stages of sharply tuned radio frequency amplification; vacuum tube detector; two stages of powerful, quality, transformer coupled audio amplification. The Varitone, a new and exclusive feature, permits regulation of tone to suit individual taste, and enables perfect matching of set with any type of loud speaker. Output of last tube is passed through special output transformer ideally suited for this work, which eliminates the necessity of adding a special transformer outside of set when a UX-171 tube is substituted. Single control with vernier adjustment. Volume control. Antenna adjustment.

### The Gradeon

The Gradeon is an attachment based on an entirely new and scientific principle. *It is not in any way to be confused with the familiar radio attachment which utilizes the horn of the phonograph as a loud speaker.* The Gradeon is the exact opposite of that.

Electrical reproduction of tone is now a fact. With the Gradeon, the tones from the phonograph records pass through the vacuum tubes of the radio receiver and pour forth a rich tone and majestic volume never until now even approached by any but the most expensive instruments.

The phonograph acts as the broadcasting station. Storms and static are powerless to interrupt your music.



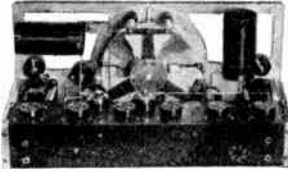
List Price .....\$17.50

# THE HARTMAN ELECTRICAL MFG. CO.

MANSFIELD, OHIO

Coshocton, Ohio Chatham, Ont.

## The Single-Six Unit



The Hartman Single-Six Unit is the only perfectly *syntonized* receiver made.

**HARTMAN**  
RADIO  
*Perfectly Syntonized\**

## The Compact



Price, \$100  
West of Rockies,  
\$105

Six tubes, under a single control, with dial calibrated in meters, making it unnecessary to log stations.

In the Single-Six a sixth tube makes it non-oscillating, regardless of antenna length and considerably increases amplification of the signals.

The L-W Circuit combines two new inventions which give constant coupling and eliminate inductive reactance in the plate circuit, enabling tubes to be changed without effect upon the non-oscillating feature.

Assembled on sturdy aluminum front frame. Stamped metal end brackets. Heavy Bakelite back panels.

### Specifications—

Six tubes, Single Control.

Tubes—Either storage battery or dry cell tubes may be used.

L-W Circuit (Non-Reacting, Constant Coupling)

Three stages of radio frequency amplification, detector and two stages audio frequency amplification.

Hartman "Clover-Leaf" Condenser.

Floating Sockets.

Battery Cable with plug, included.

Dimensions—Height, 7 in.; Width, 15 in.; Depth, 5½ in.

This Unit is standard equipment in all Hartman cabinets. Construction of cabinets permits use of unit interchangeably in all cabinets.

## The Junior Upright



Price, \$135.  
West of Rockies,  
\$142.

The Junior Upright is ideal for homes where a handsome but not too costly radio set is desired.

Made of Selected American crotched walnut, with routed paneling on the doors.

A large compartment is provided for batteries and other accessories and is accessible from the rear.

This model may be used with the Hartman Pedes-Teller or any other type of speaker.

### Specifications—

Single-Six Unit.

American Crotched Walnut.

Dimensions—Height, 40 in.; Width, 18 in.; Depth, 12 in.

## The Sheraton

Finished in beautiful brown mahogany—a truly gorgeous piece of furniture, as well as a fine musical instrument.

The built-in Hartman Approved Duplex Speaker gives ideal all-directional distribution of sound from both sides of the receiver unit.

The panelled doors open into a roomy compartment where all batteries, battery eliminators and other accessories may be kept.

### Specifications—

Single-Six Unit, Hartman Duplex Speaker; Brown Mahogany Finish.

Dimensions—Height, 42 in., Width, 28 in., Depth, 14 in.



Price, \$180.  
West of Rockies,  
\$189.

### \*Syntonized

means "perfectly in step in tone," or perfect unison of operation in the receiver, freedom from distortion and oscillation, pure tonal quality, maximum volume and distance, regardless of wave length, with the ideal degree of selectivity for all conditions.

The Compact cabinet is constructed of dark, lustrous-finished mahogany with illuminated dial and statuary bronze escutcheon plate. A tiny bulb behind the control dial lights the readings to make tuning easy in poorly lighted places.

All fittings have been carefully selected to conform in color with the cabinet.

The Compact may be used with the Hartman Pedes-Teller or any other type of speaker desired.

The Single-Six Unit may be removed from the Compact in a moment's time and transferred to any other Hartman cabinet. This arrangement is for the convenience for those who may desire to change from the Compact to a larger cabinet after a few months' trial.

### Specifications—

Single-Six Unit, Solid Mahogany Cabinet

Dimensions—Height, 8½ in., Width, 16 in., Depth, 6 in.

## The Upright



Price, \$175  
West of Rockies, \$183

A beautiful cabinet, made of selected American crotched walnut, and equipped with built-in Hartman Approved Speaker. This is our most popular complete cabinet type.

The speaker chamber is designed to give the utmost excellence in clarity and truth of tone.

Batteries and other accessories may be kept under cover in a spacious compartment behind the panelled doors.

### Specifications—

Single-Six Unit, Hartman Approved Speaker, American Crotched Walnut.

Dimensions—Height, 44 in., Width, 28 in., Depth, 14 in.

## The Pedes-Teller

The Hartman-Pedes-Teller is a new type of radio speaker, employing principles that produce a quality and truth of tone hitherto unequalled.

The speaker unit is placed at the bottom of a three-foot tapered solid wood tone chamber, thus giving a delightfully soft and mellow reproduction of sound.

Speaks from two sides, flooding large areas, regardless of its position in the room.

Finished in brown mahogany, with orange and black engraved side panels.

### Specifications—

Brown Mahogany Finish, Height, 46 in., Two Grills, 7x8½ in., Ten Foot Cord, Hartman Approved Speaker Unit, Solid Wood Tone Chamber.



Price, \$38  
West of Rockies,  
\$40

# IMPERIAL RADIO CORPORATION

21 Ottawa Avenue, N. W.,  
GRAND RAPIDS, MICH.

## “Imperial 5” Radio Receiving Set

The “Imperial 5” receiver, developed by our experienced engineering staff, is a product of true artistic design and beauty, being of medium price to meet the demands of the average buyer.

All parts are designed and built by us. Extensive radio experience is behind this product.

Incorporated in this machine are all the latest improvements known to the radio world. It possesses marvelous volume, tone quality, selectivity and long range. All parts are machine made and assembled by highly skilled workmen.

Thousands of satisfied customers are using these sets and testimonials are being constantly received of the marvelous results they are rendering.



### Specifications

**Type of Circuit**—2 stages of radio frequency, detector and 2 stages of audio frequency.

**Control**—Three tuning dials.

**Tubes**—Five 199 or 201A tubes may be used, although the 201A, 6-volt type is recommended for maximum results.

**Batteries**—Uses A, B and C batteries of standard types.

**Antenna**—Simple outdoor type and ground.

**Panel**—Straight front with three large tuning controls and one volume control, one switch; made of bakelite and beautifully engraved with finely divided scales, 0 to 100 degrees, also has neat border design.

**Cabinet**—Of genuine walnut solid thruout with walnut lacquered finish. Top supported by full length piano hinge.

**Dimensions**—Length, 20 in., width, 11½ in., height, 9¾ in.

Weight, 24 lb.

### Guarantee

The “Imperial 5” receiver carries our absolute guarantee against all mechanical defects for a period of one year.

List Price, without accessories.....\$55.00

# MACLAREN MFG. COMPANY, INC.

26 Park Place  
NEW YORK, N. Y.



The Ultimate in Radio Reception

## Domin-Aire Receivers

There are two models of the “Domin-Aire” Radio Receiver, both electrically operated, using either a loop or aerial and finished in either mahogany or walnut.

### Model 15 Receiver

Model 15 is a six-tube receiver with three stages of radio frequency amplification, detector and two stages of audio frequency amplification. A power tube is used in the last audio frequency stage. The receiver is entirely self-contained and operates on a loop contained within the cabinet or on an outside aerial. Two drum-type controls are used, these being operated in unison for local reception. The horn is built in and has been especially designed along with a carefully selected unit to cover the entire musical scale. The cabinet is of the console type and can be had in mahogany or walnut. Operates on either A.C. or D.C.

List Price .....\$350.00

### Model 17 Receiver

Model 17 is an eight-tube set consisting of four stages of radio frequency amplification, detector and three stages of audio frequency amplification. It uses two 210 tubes in the last two audio stages. The receiver will operate on either loop or aerial, the loop being contained within the cabinet. Controls are of the drum type, four being used and arranged to operate in pairs. Two horns are used, separate units being used for each, the purpose being to bring out the low notes equally well as the high notes. The cabinet is of the console type and can be had in either mahogany or walnut. An electrically operated clock running on A.C. is standard equipment. Complete with tubes and all necessary equipment for operating on either A.C. or D.C.

List Price .....\$600.00

### Voltron Tubes

The Voltron line of tubes was designed for the highest efficiency and long life. They are made especially for sets that have enormous volume. They are non-microphonic and have a very small internal capacity.



# KELLOGG SWITCHBOARD & SUPPLY COMPANY

CHICAGO, ILL.

Warehouses

KANSAS CITY, MO.

COLUMBUS, OHIO

PORTLAND, ORE.

SAN FRANCISCO, CALIF.

## Kellogg Radio Receivers

The Kellogg line of radio receivers includes five inductively-tuned radio-frequency models ranging in price from \$125.00 to \$345.00. Of these models, 507 and 508 are six-tube sets with outstanding design.

### Model 507—Single Tuning Control

#### Specifications—

Tuned radio frequency, three stages radio, detector and two transformer-coupled audio, single tuning control.

TUBES—Five 201A and one UX-112 or equivalent.

CONTROLS—Wave group switch. Single tuning knob. Filament and volume controls.

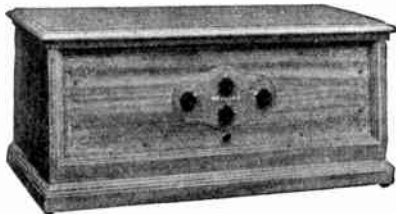
BATTERY—135 volts B, 22½ volts for detector tube. 6 volts A (preferably storage type). 9 volts C.

ANTENNA—70 ft. of outdoor or indoor for best volume and selectivity.

CABINET—Simple dignified design in black walnut. Laminated walnut panel.

ESCUTCHEON—Bronze to harmonize with cabinet design.

Features—Non-oscillating—cannot be made to squeal. Easily accessible connecting rack at left end of set near lid. Single tuning control operating in only one of seven circuits at one time. Inductive tuning (no variable condensers) insures uniform volume over entire wave band. Zone switch feature separates stations on tuning knob, making the set approximately seven times easier to tune than where all stations are crowded into one 100-degree dial.



Model 507. Single Tuning Control

Licensed under application for Letters Patent of Radio Frequency Laboratories, Inc. (RFL)

Filament control knob needs no adjustment after initial setting unless batteries are allowed to run down. Volume control regulates volume from a mere whisper to full volume as desired. New design audio

transformers faithfully reproduce full musical scale. All tubes float on cushion sockets.

List Price, East of Rockies.....\$215

List Price, West of Rockies ..... 230

### Model 508 Console

This model contains the equipment of the Model 507 set combined with a built-in speaker of new design.

With an air column of 46 in., this speaker faithfully reproduces the fine tone quality made possible by the audio amplification design of the receiver. A concealed writing shelf under the set makes a convenient place for the log book or program. Ample battery space is provided and all parts are readily accessible for inspection.

A beautiful piece of furniture that will harmonize with the furnishings of any home.

List Price, East of Rockies.....\$345



Model 508. Console

Licensed under application for Letters Patent of Radio Frequency Laboratories, Inc. (RFL)

A complete line of reproducers and parts for radio set manufacturer or builder.

Catalog on request.

**Wave Master Model No. 504**

An inductively-tuned 5-tube set similar in principle to Model No. 507 but lacking the shielding and furnished at a lower price.

**Specifications—**

Two stages tuned radio frequency, detector, and two stages of audio frequency, transformer coupled; single-tuning control. Tubes, five 201A and one UX-112 or equivalent. The power tube may be omitted if desired and five 201A tubes used.

**CONTROLS—**Wave zone switch, single tuning knob filament and volume controls.

**RHEOSTATS—**Two rheostats located in side of the receiver are set when the tubes are installed and need not be changed. Two rheostats on the face of panel control volume.

**BATTERIES—**"A," 6 volts, preferably of the storage type. "B," 135 volts, 22½ volts for detector, 90 volts on the two radio-frequency and first audio tubes and 135 volts on the last stage of audio. When the power tube is not used in the last stage, 90 volts are all that are required.

**ANTENNA—**100 ft. of outdoor for the best volume and selectivity.

**CABINET—**Mahogany finished. Bakelite panel.

**Features—**Single tuning control operating only one of 9 circuits at one time. Inductive tuning insures uniform volume over entire broadcast wave bands.

List Price, East of Rockies.....\$125

List Price, West of Rockies..... 130



Wave Master Model No. 504

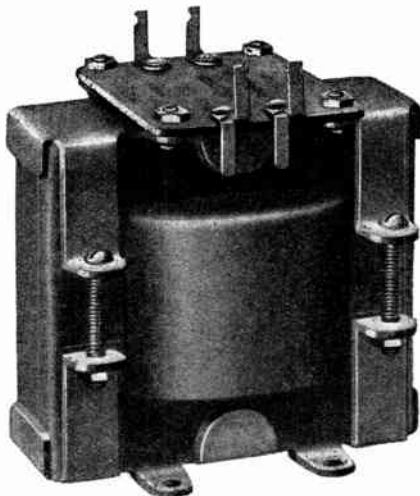
**Model No. 505 Console**  
Same equipment as 504 Wave Master with built-in speaker. Finished in mahogany. Prices do not include table.  
List Price, East of Rockies....\$225.00  
List Price, West of Rockies.... 240.00

**Model No. 506 Consolette**  
Same equipment as the No. 504 Wave Master with built-in speaker. Handsomely finished in mahogany.  
List Price, East of Rockies....\$235.00  
List Price, West of Rockies.... 250.00



**No. 508 Transformer**

A new audio frequency transformer designed to give the ultimate in amplification over the entire musical range. The core of this transformer is of silicon steel, of large cross section which permits a reasonably high direct-current flow without affecting reproduction.



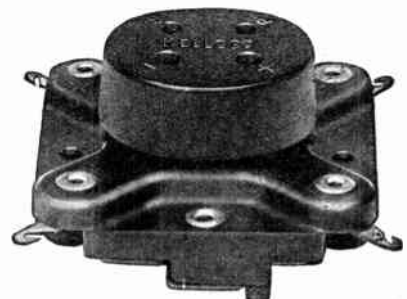
No. 508 Transformer

This design insures a straight-line amplification on frequencies from 90 to 5000 cycles and falling off very slowly below 90.

Turn ratio is approximately 3 to 1, which gives a high voltage amplification. Prices on request.

**No. 3 Tube Socket**

A new suspension type socket especially designed to meet the demands of set manufacturers and builders. The large suspension spring is of German silver, and both its size and design allow for great flexibility with minimum bending. Contact springs are of German silver and insure positive wiping contact. The body of the socket is of moulded Bakelite plainly marked. Soldering terminals are riveted in grooves which prevent any movement with the consequent danger of loose connections. The socket may be used with old or new style tube bases. Price on request.



No. 3 Tube Socket

# RADIO CORPORATION OF AMERICA

Sales Offices

233 Broadway  
NEW YORK

10 South La Salle Street  
CHICAGO

28 Geary Street  
SAN FRANCISCO

## RCA Products

RCA products are the result of highly organized research and scientific development by many of the foremost experts in the industry. The tremendous resources of RCA, and its associates—General Electric and Westinghouse—insure the absolute integrity and correctness of each RCA product—designed to meet the most critical demands of the radio public.

The RCA line comprises:

A *complete* line of Radiotrons—the standard tubes of radio.

A *complete* line of Radiolas—the most popular as well as the most advanced radio receivers, ranging in price from \$15 to \$575.

A *complete* line of Loudspeakers—achieving new tone quality and unheard-of volume, ranging in price from \$18 to \$275.

### Radiola 30

The de luxe instrument of the RCA group of Radiolas having *complete operation from 50-60 cycle, 110 volt A.C. lighting circuits and eliminating all batteries.*

Radiola 30 embodies the new RCA 8-tube super-heterodyne and an RCA cone loudspeaker, the latter being driven by a rectifier-power amplifier unit which provides plate, grid and filament voltages for the entire combination.

Requiring no antenna, Radiola 30 operates from a self-contained loop, and because of the sensitivity and selectivity of the new 8-tube circuit, it provides unusual performance under the most exacting conditions imposed by broadcast transmitting stations.

Uni-control tuning is obtained by means of two dials or "station selectors" in the form of two drums calibrated in kilocycles. For most purposes, local or distant stations can be tuned in by operating both drums together as a unit, for they are connected together by a light friction clutch. The two drums may also be operated separately when extremely fine tuning for the reception of a distant station is desired.



With the new RCA Cone Loudspeaker, the new power amplifier tube and the power unit, Radiola 30 provides quality of reproduction hitherto unattained, and volume in excess of that ordinarily required. The volume can be increased or decreased to any desired degree without sacrifice of tone quality.

Cabinet of two-tone mahogany in period console design.

—Dimensions, inches—			Weight,	List Price,
Height	Width	Depth	lbs.	Complete
40	48	22	150	\$575

### Radiola 25

The new RCA 6-tube uni-control second-harmonic super-heterodyne, table type, with attached loop.

Dry battery operated with space in cabinet for all necessary batteries.

Equipped with the new Radiotron UX-120 dry battery power amplifier, thus giving great volume.

Radiola 25 employs the new RCA uni-control mechanism, with "straight line" frequency condensers, giving equal spacing of all stations on the tuning scale.

Two jacks are provided for headset or loudspeaker plugs. A volume control permits regulation of volume without detuning.

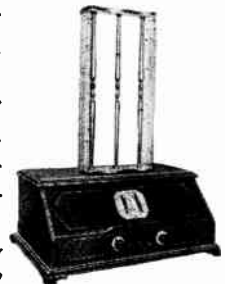
**Operation**—(1) Complete dry battery operation using "A," "B" or "C" dry batteries.

(2) Combination dry battery and A.C. lighting circuit operation (50-60 cycle, 110 volt). "A" and "C" dry batteries used—"B" voltage supplied from RCA Duo-Rectron AP-937, or rectifier section of RCA Loudspeaker 104.

(3) Complete A.C. lighting circuit operation (50-60 cycle, 110 volt). "A," "B" and "C" voltages supplied from rectifier section of RCA Loudspeaker 104, thus eliminating all batteries. This requires the purchase of A.C. Package UP971.

List price includes five Radiotrons UX-199 and one Radiotron UX-120.

—Dimensions, inches—			Weight,	List Price
Height	Width	Depth	lbs.	Without Batteries
38	28	19	43	\$165





**Radiola 28**

"Jefferson Desk" type new RCA uni-control 8-tube super-heterodyne with attached loop. It has space inside the cabinet for all dry batteries.

If used with RCA Loudspeaker 104, Radiola 28 operates completely from 50-60 cycle, 110 volt A.C. lighting circuit, eliminating all batteries. Tuning mechanism consists of new RCA uni-control system, employing "straight line" frequency condensers, giving equal spacing of all stations.

**Operation**—(1) Complete dry battery operation. "A," "B" and "C" dry batteries used.

(2) Combination dry battery and A.C. lighting circuit operation (50-60 cycle, 110 volt) with "A," "B" and "C" voltages supplied from rectifier portion of RCA Loudspeaker 104, thus eliminating all batteries. This requires the A.C. Package UP-972.

List price includes seven Radiotrons UX-199 and one Radiotron UX-120.

Dimensions, inches			Weight, lb.	List Prices	
Height	Width	Depth		Without Batteries	With A-C. package UP-972
64	26½	17	42	\$260	\$295



**Radiola 20**

A 5-tube balanced, tuned radio frequency receiver with the additional feature of variable regeneration in the detector. Dry battery operated, using four Radiotrons UX-199 and one Radiotron UX-120.

The successful combination of regeneration with two tuned stages of radio frequency amplification results not only in an extraordinarily sensitive receiver, capable of tuning in the distant as well as local broadcasting stations with unusual ease and selectivity, but also results in marked tube economy.



Normal operation requires a single 75-ft. antenna wire, but provision is made to adapt the set to aerials of various lengths including a short indoor wire.

**Control**—

The three tuning circuits are adjusted by one control. The single control drum at the left on the sloping panel is for regeneration. When this is brought into play, it adds both sensitivity and selectivity. Stations can be marked directly on the dial drums. The two knobs at the left are verniers for extremely fine tuning. The two knobs at the right are for battery setting and volume control.

**Operation**—

(1) Complete dry battery operation. "A," "B" and "C" dry batteries used.

(2) Combination dry battery and 50-60 cycle, 110 volt A.C. lighting circuit operation—"A" and "C" dry batteries used—"B" voltage supplied from RCA Duo-Rectron AP-937 or rectifier section of RCA Loudspeaker 104.

Cabinet, beautiful mahogany finish.

Dimensions, inches			Weight, lb.	List Price, Including 5 Radiotrons
Height	Width	Depth		
11½	19½	16	30	\$115

**A.C. Packages Models UP-971 and UP-972**

A.C. Package, Model UP-971 for Radiola 25.

A.C. Package, Model UP-972 for Radiola 28.

Where the RCA Loudspeaker 104 is operated in conjunction with either the Radiola 25 or 28, *all batteries may be eliminated*, and complete A.C. operation realized by the addition of certain accessories constituting the A.C. Package

List Price, complete ..... \$35

**Radiola III-A**

This is a combination of Radiola III and Radiola III Balanced Amplifier in one case. It has won fame for record performance.



Dimensions, inches			Weight, lbs.	List Prices	
Height	Width	Depth		Without accessories	With 4 Radiotrons and headphones
5½	6½	11½	8	\$35	\$49.50

**Radiola 26**

Portable super-heterodyne with standard 6-tube catacomb. It has a rotating loop antenna in the cover, and a snake-type horn speaker enclosed in the cabinet. For portable use, it has space inside for small batteries.

For home use, it has a home battery box that will hold larger size batteries. This contains also an antenna coupler with binding posts for connections to an antenna and ground.

Both Radiola and battery box are finished in finely grained American walnut.

Price includes 6 Radiotrons UX-199.



Dimensions, inches			Weight		List Price
Height	Width	Depth	Radiola 26	Home Battery Box with Batteries	
14½	13	9½	30 lbs.	40 lbs.	\$225

**The RCA Loudspeaker Line**

The RCA Loudspeaker line represents remarkable advances over earlier types of speakers. The new cone speakers reproduce practically the whole musical scale—and they add to accuracy of tone, reproduction the reality that *volume* brings.

**RCA Loudspeaker 104—**

A super-power loudspeaker with battery eliminator, in a fine cabinet of its own. It is designed to operate from 50 to 60 cycle, 110 volt A.C. lighting source. Adapted to Radiola 25 or 28, it does away with all batteries. With most other types of sets, it eliminates "B" batteries.



This loudspeaker is the ultimate in radio reproduction so far. With an entirely new principle of operation, it gains a pure faithfulness to tone that is kept at any volume. It can reproduce a full orchestra at actual volume, without distortion.

List price includes 1 Radiotron UX-210, 2 Rectrons UX-216-B, 1 Radiotron UX-874 and 1 Radiotron UV-876.

Dimensions, inches			Weight, lbs.	List Price
Height	Width	Depth		
41	21	14	85	\$275

**RCA Loudspeaker 100—**

A cone speaker that can handle without distortion all the volume that a set can give it. It has a free swinging cone, mounted on soft leather to get the full vibrations of the bass tones—to get the full tone range. It is particularly matched to the power Radiotrons.



Dimensions, inches			Weight, lbs.	List Price
Height	Circum.	Thickness		
17	13½	7	13½	\$35

**RCA Loudspeaker 102—**

The same as Model 100, but with the addition of a rectifier power amplifier Uni-Rectron AP-935. This draws its power from a 50-60 cycle, 110-volt A.C. lighting source, giving great volume with undistorted clarity.

List price includes 1 Radiotron UX-210 and 1 Rectron UX-216-B.

List Price \$140



**RCA Loudspeaker UX-135—**

The RCA standard in the low-priced field. Loudspeaker UX-1325 is universally declared to give the most faithful reproduction among the horn type of loudspeakers. A control lever at the base provides adjustment of the diaphragm.

List Price \$18



**RCA "B" Battery Eliminator (Duo-Rectron Model AP-937)**

This is a "B" eliminator that gives steady current all the way up to 135 volts. It has taps for 22½, 45, 90 and 135 volts, and, because of its voltage regulator, it gives just the *right* voltage for any set. It draws its power from a 50-60 cycle, 110 volt A.C. source.

It is silent—for the hum is all smoothed out. It has a long-life rectifier tube. And it is specially designed. It is pleasing to the eye, and thoroughly dependable!

List price includes 1 Radiotron UX-874 and 1 Rectron UX-213.



Dimensions, inches			Weight, lbs.	List Price
Height	Depth	Length		
7½	8½	17½	20½	\$65

**RCA Power Amplifier (Uni-Rectron Model AP-935)**

This is a super-power amplifier unit that delivers great volume through a loudspeaker, with improved tone quality.

It is specially designed for the RCA Loudspeaker 102, but can be used with others, too.

It operates on any 50-60 cycle, 110 volt A.C. source, List price includes 1 Radiotron UX-210 and 1 Rectron UX-216-B.



Dimensions, Inches			Weight lbs.	List Price
Height	Depth	Length		
7½	8½	17½	27½	\$105

### RCA Radiotrons are the Standard for Every Purpose

With the laboratories of RCA, General Electric and Westinghouse steadily at work to develop Radiotrons, radio reception is being improved year by year.

Many of these improvements can be made right in

your old set. Keep pace with Radiotrons. And, for your own protection, always look for the RCA mark on the base and inside the glass of every tube you buy.

### Quality is a Research Story

The high quality of performance you get with a genuine RCA Radiotron is due to the incessant research of the extensive RCA organization.

The radiotron laboratories find ways to make

better tubes—they find ways to improve manufacturing processes—and they keep a constant check on the uniformity of the manufactured Radiotrons.

It pays to look for the RCA mark.



#### Radiotron UX-199

The Standard Tube  
for dry battery sets

#### Radiotron UV-199

Exactly like UX-199  
but has the old time base

### Radiotrons for Detection and Amplification

For Dry Battery Use—  
Radiotron UV-199 or UX-199  
Radiotron WD-11  
Radiotron WD-12 or WX-12  
For Storage Battery Use—  
Radiotron UX-201-A

### High Volume Output Amplifiers

For Dry Battery Use—  
Radiotron UX-120  
For Storage Battery Use—  
Radiotron UX-112  
For Storage Battery or Power Supply Use—  
Radiotron UX-171  
For Power Supply Use—  
Super-power Radiotron UX-210

### Radiotrons for Detection

Radiotron UX-200  
Super-sensitive Detector—  
Radiotron UX-200-A

### Special Purpose Vacuum Tubes

Rectifier Tubes for Battery Eliminators—  
Rectron UX-216-B (half-wave rectifier)  
Rectron UX-213 (full-wave rectifier)  
Regulator Tubes for Battery Eliminators—  
Radiotron UX-874 (voltage regulator)  
Ballast Tubes for Current Control—  
Radiotron UV-876 (for 60 cycles a-c.)  
Radiotron UV-886 (for 40 cycles a-c.)  
Protective Tube for B Battery Circuit—  
Radiotron UV-877



# THE LANGBEIN-KAUFMAN RADIO COMPANY

62 Franklin Street, New Haven, Conn.



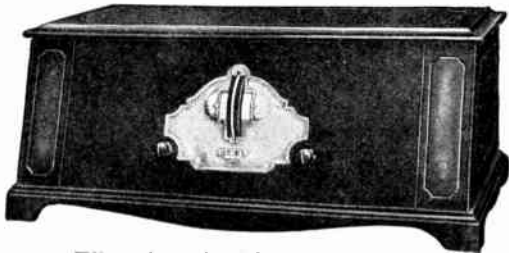
## New Six-Tube Truphonic Elkay Receiver

The new Elkay embodies the Donle Truphonic System of Audio Amplification, and the Elkay Synauto Radio Frequency principle—two momentous improvements in radio.

Truphonic means *true tone amplification*. The Donle System unit comprises three balanced stages of audio, entirely free from interstage coupling or distortion within the stages.

The Synauto principle, an Elkay patent, eliminates tuning troubles. Experience has shown that in many sets it is necessary to readjust the rheostats whenever a change is made from low waves to high waves (and vice versa) in order to obtain good volume without squeals or distortion.

The Elkay Synauto principle smooths out the entire dial from 200 to 580 meters. The clarity and volume will be even on all wave lengths regardless of dial or rheostat adjustment.



The new Elkay has the Elkay Tube Equalizer System of interchangeable, automatic rheostats which permit any combination of tubes to be used. In addition to the splendid new tubes now available, there will be special R. F., detector, audio and output tubes. Elkay owners can use these tubes without alteration of hook-up. Both the R. F. stages and the detector are entirely shielded. The neat Uni-Control has the flexibility of three dials; very simple to tune; no sub-controls. "Floating" sockets are mounted on bakelite sub-panel; all important insulated and wearing parts are genuine bakelite. All connections from a common cable are plainly tabbed.

Housed in a beautiful sloping-front cabinet of brown, antique, Duco finished natural grain mahogany.

List Price .....\$125.00

Write for exclusive franchise.

### Elkay Equalizers



Elkay Equalizers replace variable rheostats, delivering correct voltage to any type of tube *automatically*. To use any combination of tubes in the same set, merely insert an Equalizer of the correct values; there is one for every tube made.

List Price, unmounted.....\$.50

List Price, mounted......75

**Elkay Suppressors**—Made in the same form as Elkay Equalizers, are non-inductive noiseless resistances for the grid circuit of R.F. tubes. They suppress regeneration in the grid circuit at just the right point to insure greatest sensitiveness.

List Price, unmounted.....\$.75

List Price, mounted.....1.00

# THE LISTEN-IN COMPANY

115 Federal Street

BOSTON, MASS.

## "Talking" Book—A Complete Radio

The Talking Book contains an unusually efficient crystal receiving set, also a pair of standard head phones and aerial and ground lead wires.

Its compactness (6½ in. wide by 8½ in. high by 2 in. thick) and light weight (27 oz.) make it available in many instances where an ordinary receiving set would be unwieldy.

Connected in a second and it goes for a life time.

**Guaranteed Reception**  
—Good, clear reception is guaranteed. The Talking Book is intended for use within a radius of 20 to 25 miles from a broadcasting station.

We guarantee that it will give perfect reception from all stations within a radius of 10 miles from the store in which the set is purchased.

A bed spring will serve as an antenna.



### Simple in Operation—

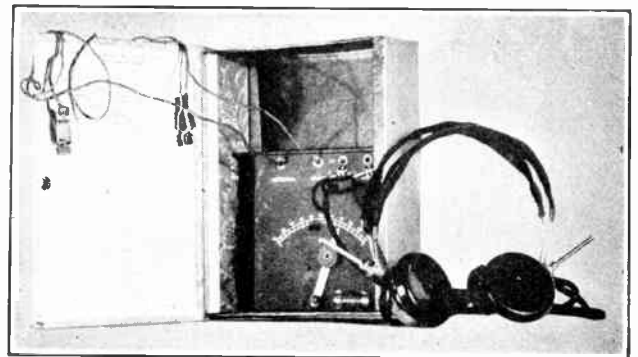
The Talking Book uses the *Celerundum* rectifying unit—no batteries or tubes are required.

There is nothing that requires attention or replacement and no knowledge of radio is required to operate it. There is only one dial to move.

The set can be connected with the aerial in an instant, as readily disconnected, and packed away within the book.

List Price, without earphones.....\$3.50

List Price, complete with earphones..... 6.00



# MARTI ELECTRIC RADIO COMPANY, INC.

22 Central Ave., West Orange, N. J.

## Marti Electric Power Receiver

A 6-tube, resistance-coupled audio circuit that is unique in design and of most durable construction throughout.

It is operated by Kellogg a-c. tubes, which have given perfect results in constant operation for periods exceeding 2½ years of normal service. These tubes, as used in our receiver, have established a sound reputation for unusual ruggedness, long life, non-microphonic effect, and efficiency both as detector and for amplification.

The electric power equipment operates upon 100-120 volts a-c., 50-60 cycles. No liquids or chemicals are required. The B eliminator unit takes a 216B or 316B rectified tube. The current consumption is very low—less than 50 watts.



The stages of amplification are: 2 radio frequency and 2 audio frequency. The 3-dial control has been retained because it yields finer selectivity than is possible with other controls.

The cabinet is of handsomely grained solid walnut. Its lines are quietly graceful and furnish a very active sales appeal. The bakelite panel is sloped backward and contains the controls in a pleasing arrangement. The tuner dials are Kurz-Kasch in genuine bakelite, operating quietly and smoothly. Hammarlund Midline Condensers are used.

Dimensions: Length, 24 in.; depth, 11 in.; height, 10 in.; panel, 7 x 21 in. Shipping weight, 47 lb.

Receiver complete with 6 a-c. tubes: List Price  
 East of Denver.....\$225.00  
 Denver and west.....\$230.00  
 Canada .....\$315.00



Each Marti Set is unconditionally guaranteed.

# ROTH RADIO, INC.

Manufacturers and Distributors  
 22 Hudson Street, New York, N. Y.

## Melodee 6 Tube Set

The Melodee 6 is attracting wide attention on account of its performance, appearance and extremely low price.

It faithfully performs and serves the most critical user. It is very sensitive, selective, powerful and easily controlled and will give natural tone qualities with volume and clarity from both distant and local stations.



Specifications—Two stages of tuned radio frequency, three specially wired transformer-coupled audio frequency and detector. Tubes—six 201 A or equivalent. Controls—three large tuning dials, filament and voltage control. Panel beautifully engraved with border design. Batteries used, A, B and C. Antenna—indoor or outdoor, with ground.

Cabinet: table type, beautiful design. Raised base and hinged cover. Made of solid birch with mahogany finish; dimensions, 24 x 8 x 8 in.; weight, 18 lb.

Dealers' Net Price, less accessories.....\$18.50

## Melodee 6 (Model S)

Possesses distinctive tone quality and brings in both distant and local stations with wonderful volume and clarity. Built-in full throated speaker registers all high and low notes. Entire unit is enclosed in a beautiful two-tone mahogany finished cabinet.



Specifications—Same as for the Melodee 6 above, except the following: Dimensions, 28 x 9 x 11 in.; weight, 28 lb.

Dealers' Net Price, less accessories.....\$28.50

## DeLuxe Melodee Console Set

Designed to meet the demand of the most critical user. It constitutes our Melodee 6 receiving set mounted in a console type cabinet which serves as a beautiful piece of furniture that will harmonize with the furnishings of any home. The console is handsomely finished in a rich two-tone mahogany, and is highly polished. The full-throated horn and speaking unit renders reception of wonderful volume and clarity. Access is made easy to all accessories due to the arrangements of doors and the commodious compartment for batteries, eliminators, etc.



Specifications—Same as for the Melodee 6, except the following: Dimensions, 4 ft. x 2 ft. x 14 in.; weight, 80 lb.

Dealers' Net Price.....\$42.00

The console can be purchased without set and unit at \$26.00. It can be had to take any set up to 8x21-in. panel.

Note—Roth Radio, Inc., are publishers of "Roth's Weekly Tips" which keep thousands of dealers all over the country well informed on the best buys in radio. Become a free subscriber by simply sending us your name and address.

# THE PFANSTIEHL RADIO COMPANY

*Simplified Control "Overtone" Radio Receivers*

Factory: Waukegan, Ill.

Sales Office: 11 So. LaSalle St., Chicago, Ill.

## Pfanstiehl

### Features of Pfanstiehl Receivers

There are three outstanding features of the Pfanstiehl line which appeal to home users and music lovers.

**True "Overtone" Reception**—The rich and natural tone of the Pfanstiehl is due to a full and rounded reproduction of the overtones which give tone color to voice or music. In other words, it is a true "Overtone" receiver.

Overtone reception has been accomplished by extremely simple design. The radio stream flows smoothly and evenly through the set, unhampered by complicated devices so often needed in radio to correct, absorb or shield the errors of amplification. There are no such errors to correct.

There is nothing in the path of the radio energy to distract or mar the delicate vibrations which make the overtones. In consequence the tone is rich and pure, immeasurably superior to that of any ordinary set.

**Precision Tuning with a Single Knob**—There is but a single knob to turn and it tunes with immediate precision. No adjusters are required. The wave length desired quickly appears in the illuminated window. You can tune without any knowledge of wave lengths, simply by ear. As you sweep through the scale you hear everything on the air in quick succession and with extreme selectivity.

So efficient a single tuned control would be impossible in any complicated set. The radio stream would be too uneven. Electrical inequalities in the circuits would prevent exact tuning without adjustment.

Utter simplicity is the secret of Pfanstiehl single-tuned control. There is nothing on the panel but the tuning knob, a combined switch and volume control and the illuminated wave-length window.

**Uniform and Dependable Operation**—The set being so simple, there is little or nothing to get out of order. Each unit performs like every other unit. There are no variations to disappoint the user and give trouble to the dealer. Uniformity of the Pfanstiehl high order helps to build up radio merchandising reputation.

*All prices are slightly higher west of the Rocky Mountains.*

### Something Really New in Cabinet Design

There is so little machinery in a Pfanstiehl inside and out that an extremely compact console cabinet is possible—only 18 in. wide and 41 in. high. And still it has room for every accessory needed to operate a radio—built-in speaker, "A" and "B" batteries and charger, or socket-power equipment. Everything is contained in a petite piece of furniture making a well-balanced radio unit. The console is a space saver; fits anywhere—in a corner, between windows, or between doors, however contracted the space.

#### The "Highboy"

A more elaborate console model, 18 in. wide and 74 in. high. Speaker is contained in a tall, graceful superstructure extending 6 ft. from the floor. There is nothing like it in radio design. It is like a grandfather's clock or perhaps more nearly like a tall, slender cupboard of old English design.

List Price .....\$235



#### Wall Speaker

Designed for use on top of the console or to be hung on the wall.

From the standpoint of acoustics there is a certain advantage in having the mouth of the speaker six or more feet from the floor. The tone vibrations are better distributed.

List Price.....\$65



#### Model 201

"Single-tuned Six" Console without speaker, but space for "A" and "B" batteries and charger or socket-power equipment. Six tubes. List Price.....\$170

**Model 20**  
"Single-tuned Six" Table Set.  
List Price .....\$125





# THE WORKRITE MANUFACTURING CO.

Main Office and Factory  
CLEVELAND, OHIO

**WORKRITE**  
SUPER NEUTRODYNE RADIO SETS



### Features of 1927 Workrite Models

All the 1927 Workrite radio receivers are genuine licensed 6-tube Neutrodyne employing two stages of radio frequency, one stage of transformer-coupled amplification for volume and two stages of resistance coupled amplification for tone quality.

Each set is wired for the new No. 200A detector and No. 171 power tubes. Both A and B power units can be used direct from an electric light socket, or from batteries if preferred. All battery wires are carried in a single cable.

The panels are all sloping and finished to match cabinets. The metal fittings are in bronze or gold. Wave lengths are engraved on panels or dials. A

special 3-way switch—"off, soft, loud," turns off set, turns on five, then six tubes.

No wiring is exposed. Special design straight-line broadcast condensers distribute stations evenly over the entire wave band. Every set goes through five separate tests before leaving the factory.

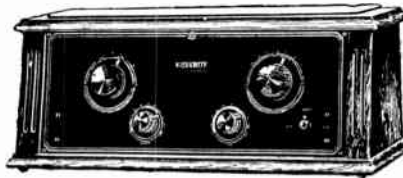
### The Workrite Guarantee

Seventeen years of manufacturing experience, five of them in radio, are back of Workrites. A conservative, well financed company assures you that you are dealing in the very best radio receiving equipment when you buy and handle Workrites.

*Workrite Super Neutrodyne Radios are unconditionally guaranteed against defects in material and workmanship.*

### Model 16 Workrite Table Receiver

Embodies every up-to-date feature of the successful Neutrodyne radio circuit. Housed in a satin-finish walnut cabinet of pleasing proportions, gold trimmed with panel and dials to



match. Two-dial control—no verniers needed.

Dimensions: Length, 22 in.; width, 11½ in.; height, 9 in.; weight, 20 lb.  
List Price .....\$80.00

### Model 26 Workrite Floor Console

Same chassis as in Model 16. Very artistic console cabinet, the front of which is satin-finish burl walnut.

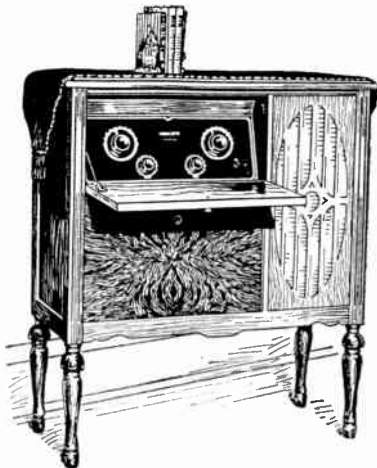
A special *cone speaker* 20 in. high, mounted on a sounding board in the cabinet, gives wonderful tone.

Two-dial control without verniers.

Dimensions: Length, 32 in. Width, 15 in. Height, 38 in. Weight, 60 lb.

Without exception, this is the best console value on the market today.

List Price .....\$160.00



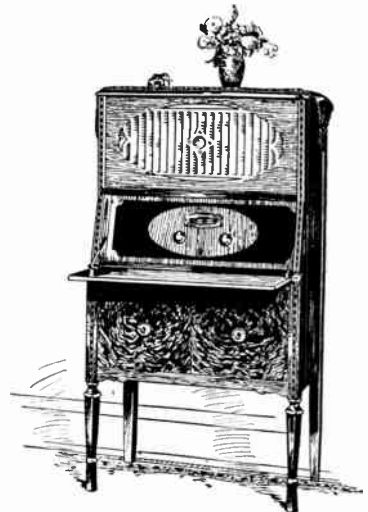
### Model 36 Workrite Secretary Type Console Cabinet

Every practical improvement in radio development is embodied in this wonderful Workrite model. A cabinet of burl walnut with panel of genuine mahogany and inlays on the front edge. A built-in *cone with diaphragm* 24 in. wide reproduces the deep low tone as only the very best speakers can. Ample space for batteries or power unit.

The operating panel is extremely simple. the new "*Two-In-One*" control operating all three condensers from a single dial. The lower part of this dial permits finest adjustment of the antenna condenser. Two rheostats and the 3-way switch are the only other controls on the panel.

Dimensions: Length, 29 in.; width, 17 in.; height, 52 in. Weight, 80 lb.

List Price....\$210.00



# World Radio Corporation

Manufacturers and International Distributors

349 Washington St., Boston, Mass.

## World 5-Tube Compact Receiver

**Circuit**—5 tubes, tuned radio frequency.  
**Selectivity**—Sets located in the immediate vicinity of local broadcasting stations can completely tune out the near-by stations, and bring in entertainment from distant cities without interference.



**Simplicity**—Three tuning dials are calibrated from 0 to 100, covering a wave length range from 200 meters when at 0, to 550 meters when set at 100. The three dials are always set at approximately the same reading.

**Economy**—By maintaining a negative bias on all tubes, B battery consumption is reduced to a minimum. Forty-five volt B batteries are recommended, since the higher first cost is more than balanced by the increased length of life.

**Balance**—Set is absolutely stabilized, eliminating the possibility of inherent squeals.

**Efficiency**—Special design gives maximum sensitivity on all wave lengths.

**Eliminators**—This receiver may be used in conjunction with any standard A or B battery eliminators, thereby making use of batteries unnecessary.

**Radiation**—Receiver is so designed that regeneration is totally eliminated, preventing annoying interference with neighbor's reception.

**Logging**—Once found, a station may be logged so that it may be easily tuned in again.

**Subpanel**—Eliminating troublesome and awkward front panel or baseboard mounting and effectively protecting the delicate transformer wiring.

**Dimensions**—Size of cabinet, 20x8x8 in. Weight packed for shipment, 17 lbs.

List Price .....\$29.50

## World 5-Tube Regular Receiver

Has the same specifications as the 5-tube Compact Receiver except that it is larger and has a compartment for "B" batteries. Inside dimensions: 9 in. high, 24 in. long, 9 in. deep.

List Price .....\$45.00

## World Console Model

A striking console with built-in speaker and the 5-tube Compact Receiver described above.

Particular efforts have been exerted to produce a truly handsome set—an instrument that everyone will be pleased to own. The highly polished, walnut finished cabinet is the finest product of one of the country's greatest woodworking plants.

Absolute selectivity and phenomenal volume even on far distant stations are special features of this set. Special emphasis has been exerted on the importance of quality of reproduction.

Overall dimensions: Height, 45 in.; width, 24½ in.; depth, 15 in.

List Price .....\$69.50



## Other "World" Products

"A" storage batteries, "B" batteries, Loud speakers, Tubes, etc.

Attractive discounts and valuable territory open to dealers.

# CHICAGO SOLDER COMPANY

CHICAGO, ILL.

Direct Factory Representatives

NEW YORK, N. Y., DAVIES ELY Co., 149 Church Street  
 SAN FRANCISCO, CALIF., LOUIS J. ZIESEL, 268 Market Street  
 CHATTANOOGA, TENN., FAUCETT-HUSTON

## Products

Kester Radio Solder.  
 Kester Rosin Core Solder.

## Kester Radio Solder

Kester Radio Solder (flat or ribbon type) is a small package of Kester Rosin Core Solder. Ready to use. Requires only heat. Harmless to the most delicate parts.

Ten cartons in about ¼-lb. each per carton. Ten cartons (100 cans to the case lot).

\*List Price per can (east of Rockies).....\$.25

\*List Price per carton (east of Rockies)..... 2.50

\*Subject to standard discounts.



## Kester Rosin Core Solder

For very delicate electrical, radio and telephone work.

Standard size, round, about ⅜-in. in diameter, Runs about 50 ft. per lb. Packed on 1, 5, 10 and 20-lb. spools. Also 18-in. sticks in 5-lb. boxes. Available in gauges ranging from 0.250 to 0.040 in., also available in standard packages in the flat or ribbon type.



## Special Service

As manufacturers of both solder and flux, we are prepared to render a most unique service to radio manufacturers in the solution of their soldering problems. We maintain an experimental and research laboratory through which we assist manufacturers in conquering their soldering problems. Our experimental and research department renders this service for the asking. Address the Research Engineer.

Originators and the world's largest manufacturers of self-fluxing solder.

# FARRAND MANUFACTURING CO., INC.

Factory and Main Offices

Thompson Avenue at Court Street

LONG ISLAND CITY, N. Y.

## Farrand

### Farrand Quality Radio Products

Wherever radio is known, the Farrand trademark is recognized—both by radio engineers and fans—as the symbol of perfect reception. Quality of performance in Farrand radio products—an outstanding superiority that enthruses even the most disinterested listeners—makes the Farrand dealer's selling task merely a matter of demonstration; "the ear says buy."

### Farrand Speaker Senior (17-inch Cone)

The greatest of all radio reproducers, still further enhanced by improvements in design and construction—a new driving unit and the new *walnut laminated wood cone* lending still further quality to its performance and appearance. This, with its price unchanged, adds considerably to its salability. Noted for its *unlimited tone radius*, faithful reproduction and ability to take volume free of distortion. Records perfectly every delicate shading of voice or orchestration. Mounted on distinctive bronze base.



List Price .....\$32.50

### Farrand Speaker Junior (14-inch Cone)

Radio's greatest speaker value—a smaller addition of the Farrand Senior and its only rival in performance. Beautiful mottled effect cone and artistically designed bronze base.

List Price .....\$16.50



### Farrand Power Speaker (36-inch Cone)

**Pedestal Model**—A de luxe size Farrand Speaker capable of volume reproduction never before achieved, actually competing with an orchestra in tonal power and fidelity. Brings in tones, especially bass, that are unobtainable with a smaller cone. Can be used with or without power amplifier. Beautifully finished with typical Farrand nicety of design and construction. Particularly adapted for large rooms, restaurants, lodge and fraternal orders and dance floors.

List Price .....\$79.50



**Wall Model**—Same as above except for mounting; with wall bracket especially constructed for hanging, including handsome cord and tassel.

List Price .....\$65.00

### Farrand "B" Eliminator

A heavy duty "B" battery eliminator which marks as decided an advance in eliminators as did the Farrand speaker in reproducers. Operates on 60 cycle alternating current. Provides new high voltage capacity with an output of 75 milliamperes. Will operate a multiple tube set, giving the following voltage: 15 to 70 volts on detector tube; 60 to 100 volts to radio frequency tubes; 135 to 200 volts on last audio stage (equivalent to one stage of power amplification). Totally free from hum, even on ear phones. Does away with bothersome, continual adjustment. Nothing to wear out. Requires no acid or water; uses only one rectifying tube. Uses either UX213 or CX313 tube. Finished in bronze steel.



List Price, without tube .....\$48.50

### Farrand "B" Eliminator Combined with Power Amplifier

The Farrand "B" Eliminator combined with power amplifier—using two rectifying tubes and one amplifying tube.

Delivers 400 volts of "B" power.

Used in connection with a cone speaker it will exactly reproduce the full volume of an orchestra, completely free of distortion, equalling or exceeding the normal volume of the musical instruments or the singer's voice at the broadcasting studio.

Employs two rectifying tubes—UX-216B or CX-316B—and one amplifying tube—UX-210 or CX-310.

List Price, without tubes .....\$62.50



*All prices slightly higher west of Rockies*

### A Farrand Franchise Is Profitable and Protective

No product in the annals of radio retailing offers greater sales possibilities than the Farrand Speaker—more have been sold to date than all other licensed cone speakers combined. The Farrand Dealer Franchise not only means profit, but protection—*proven* territorial and price protection that has won the confidence and endorsement of retailers the country over. Three new Farrand products this season—Power Speaker, "B" Eliminator and Combined "B" Eliminator and Power Amplifier—give a three-fold additional value to the Farrand Franchise. Write us for the name of your nearest Farrand distributor.



# BOUDETTE MFG. CO.

146 Division St.

CHELSEA, MASS.

Factory Sales Agents for  
United States and Canada

HASTINGS ELECTRIC SALES CO.  
42 Binford St., Boston, Mass.

## The SONOCHORDE CONE

### Sonochorde Cone Speakers

America's premiere loudspeaker development. Sold on a comparison basis.

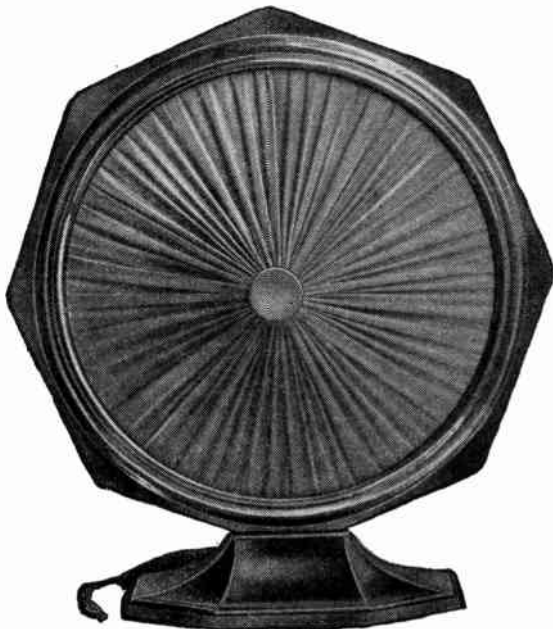


Table Type Sonochorde Cone

### Features

A super-powered actuating unit with four heavy magnets, balanced and angularly spaced. These magnets are capable of lifting over 10 pounds, resulting in tremendous volume and a deep rich tone of perfect quality.

Beautiful silk-covered front of deep wine color with mahogany finished metal frame and base to match. The back is protected by 8 metal arms integral with frame. Extra-sized felt padded base to prevent tipping or scratching.

Master craftsmanship throughout.

#### Specifications—

Height, 18 in.  
Width, 16 in.

List Price

Table Model... \$25.00

Wall Model... 27.00

Floor Standard. 35.00



Floor Standard Model Sonochorde Cone



Wall Model Sonochorde Cone

# HAMBURG BROTHERS CO.

450-452 Seventh Ave., Pittsburgh, Pa.

## Pennsylvania Phones and Speakers

The finest popular priced line of phones and speakers in America.

All horns and bases finished in a beautiful verde green and completed with a powerful adjustable reproducing unit.

"Quality and Price"



Model D  
Height, 26 in.  
Bell, 12 in.  
List, \$10.00



Model E  
Height, 22 in.  
Bell, 10 in.  
List, \$8.50



Model H  
Height, 18 in.  
Bell, 8 in.  
List, \$5.00



Type A-30  
List, \$1.95

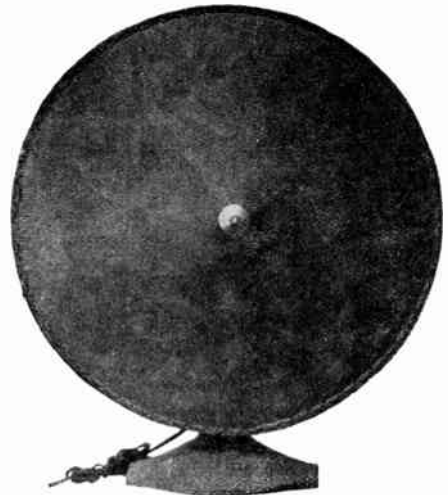


Type B-20  
List, \$2.75  
Type E-25  
List, \$3.50

## Pennsylvania Cone Speaker

This new Pennsylvania product has been made to answer a wide-spread demand for a perfect cone type speaker at a popular price. Pleasing in appearance, 18 in. in diameter. Cone of special scientific paper with gold and black braid reinforcing the edge. Rigid and not affected by atmospheric conditions. Delivers at great volume, bringing out the high and low notes with quality reproduction. This speaker is equipped with a powerful adjustable reproducing unit. Adjustable for the voltage of any receiving set on the market.

List Price, Model J.....\$10.00



To the Jobber—Permit us to ship you a sample line on memo. We will convince you that the Pennsylvania line is all that we claim it to be.

# Herald Electric Co., Inc.

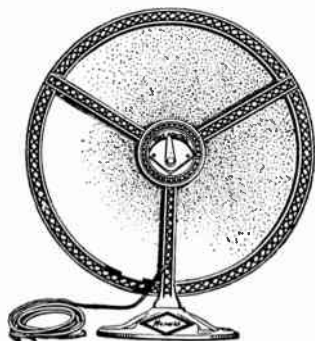
Manufacturers of Radio Speakers

29 East End Avenue  
NEW YORK, N. Y.

## Herald

### Herald Cone Speaker

The manufacturers of the Herald Cone Speaker are pioneers in the development of loud speakers, and the Herald Cone is the result of extensive research and years of experience in the construction of loud speakers exclusively.



### Unsurpassed in Tone and Value

The Herald Cone Speaker produces wonderful volume and also possesses marvelous tone qualities. It compares favorably with any loud speaker on the market regardless of price.

It is equipped with a tone control which makes it possible to obtain the utmost volume and clarity on varying receptions.

### Details of Construction

The cone is made of an extra heavy grade of paper and has a full floating free edge protected by metal frame. The metal frame and base are handsomely finished in old bronze and will readily harmonize with any receiving set. The bottom of base is covered with felt which prevents scratching highly polished surfaces.

#### SPECIFICATIONS

Diameter of cone, 14½ in.—over all diameter, 16 in.  
Height of speaker, over all, 18 in.  
Size of base, 5½ x 7 in.  
Weight, completely packed, 7 lb.—speaker alone, 3½ lb.  
Each speaker is furnished complete with 5 ft. of attachment cord.  
List Price .....\$12.75  
(Slightly higher on Pacific Coast)

# SPARTAN ELECTRIC CORPORATION

348-352 West 34th St., New York, N. Y.

## Spartan Disc Speaker

### Spartan Disc Speaker, Model 100

This speaker is of the free-edge type, equipped with the Spartan Semi-Balanced Armature Disc Unit and a diaphragm of impregnated pulp composition. Tone fullness and natural instrument timbre are beautifully reproduced. Handsome, well proportioned, matched walnut finished cabinet.



Well designed grill, backed by brown silk. The very best in acoustical engineering combined with high decorative value.

Over all size, 16 in. wide, 14 in. high, 6 in. deep.

List Price, Model 100 \$25.00

### Spartan Junior Disc Speaker, Model 400

A surprising, practically unequalled value. Its full mellowness at low frequencies is outstanding.

Equally pleasing in appearance. The diaphragm is of mahogany stucco composition, in well-studied contrast to its artistic frame and base finished in rubbed mahogany.

Over all size, 15½ in. high, 13½ in. in diameter.

List Price, Model 400...\$12.50

Model 400 G Speaker—Same as Model 400 except equipped with antique gold finish diaphragm and handsome carved frame to match.

List Price, Model 400 G..\$14.50



### Spartan Horn Speaker, Model 500

In this unit there has been successfully developed a deluxe horn speaker that rivals the season's best cone type reproducer.

Its mathematically correct air column provides for supremely satisfactory volume, clarity and timbre. Finished in high-lighted antique bronze, an ornamental addition to the well-appointed room.

Over all size, height of horn, 23 in.; diameter of bell, 15 in.

List Price, Model 500..\$18.50



# STEVENS & COMPANY, INC.

44-48 E. Houston Street  
NEW YORK, N. Y.



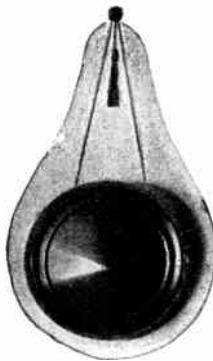
## Stevens Speakers

Stevens Speakers, made by the pioneers in cone-type reproducers, mark a distinct advance in this field. Their exclusive features have set a new standard of perfection and reliability. Under the most trying conditions they have demonstrated their superiority in tone quality and sturdy performance.

Equipped with the famous Stevens Burtex diaphragm. The only seamless diaphragm made; practically unbreakable, absolutely moistureproof; a textile base formed under tension in the scientific conoidal shape. Diaphragms are inexpensive and replaceable in a few seconds. Stevens T.T. armature unit operates on an entirely new principle. It is "non-freezable" and reproduces the human voice with marvelous exactness.



Model "A"



As Hung On Wall

Licensed and Manufactured under Pat. No. 1414801.

Ideal for the home. Decorative and with wonderful tone. Mahogany sounding board increases volume and resonance. Complete with easel base and silk hanging cord 17½ in.

List Price ..... \$25.00



Model "B," 14½ inches

Similar to Model "A" but smaller. Has Burtex diaphragm, resonant wood sounding board and powerful balanced armature unit, giving remarkable volume with highest tone quality. Ideal for a small room. Finished in rich mahogany shades to match many of the standard sets.

List Price ..... \$16.50



# VICTOR RADIO CORPORATION

4317 No. Western Ave., Chicago, Ill.

## The Operetta Drum

A new speaker with a full free edge cone inserted in an aluminum drum. It combines superior tone quality at extreme volume with decorative elegance. Ideal for the home.



The Operetta Drum embodies a reflex principle of vibratory reproduction which brings to radio the deeper and higher tones so frequently missing in radio amplification. The Operetta Drum stands the strongest amplification of the most powerful superheterodyne without blasting or distortion.

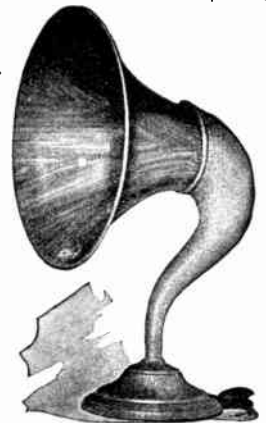
Finished in either Standard Tuscan Bronze or Gold Crackle.

List Price ..... \$20.00

## Operetta Loud Speaker

A deluxe gooseneck speaker with the "Operetta" unit. No better speaker made at any price. The heavy cast aluminum gooseneck and the base are finished in black and gold, the bell in beautiful mahogany. A beauty in appearance, and perfect in tonal quality. Height, 22 in. Diameter of bell, 14 in. Packed in individual boxes, insuring safe carriage.

List Price ..... \$18.00



## Leader Loud Speaker Unit



An old reliable line known everywhere. Equipped with our "Leader" Unit. New and better finish on gooseneck and base. Gold finish lacquered. Will not tarnish from handling. Bell in beautiful mahogany.

List Price

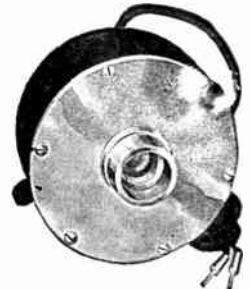
Senior size, 22 in. high; 14-in. bell..... \$15.00

Small size, 22 in. high; 12-in. bell..... 12.50

## Operetta Loud Speaker Unit

A high grade non-adjustable pin unit built to satisfy the most critical. From 45 to 135 volts and higher, the "Operetta" delivers high and low notes without distortion in that sweet natural tone that is so desirable in radio reception. No chatter or distortion of any kind.

List Price ..... \$8.00



Reliable manufacturers and jobbers are invited to write for samples of above items and very attractive quantity prices.



# THE LAMINATION STAMPING CO.

764 Windsor Street  
HARTFORD, CONN.

## Stamped Metal Parts for Radio

Producers of stamped metal parts used by manufacturers of radio receiving sets, such as brass and aluminum condenser plates, and high silicon steel laminations for built-up cores used in audio transformers, "B" eliminators, power transformers, etc.

The production of silicon steel laminations has been one of the troublesome features of radio manufacture. This operation has usually involved unexpectedly heavy expense, serious delays in delivery of sets, and difficulty in securing the high quality of stampings which is essential. It is only within the last year that many radio engineers have fully realized that burred, ragged and distorted laminations were the cause of poor results from excellently designed transformers.

Accurate flat stampings of uniform size can be more cheaply assembled than bent, burred and inaccurate pieces. In many designs the alternately reversed, or interleaved type, which is so expensive and slow to assemble, may be abandoned for the block assembly type without loss in efficiency.

Having for several years made a specialty of the stamping of silicon steel, we are able to produce stampings so accurate in design and free from burr as to show the best electro magnetic characteristics for the given core material and design.

Laminations can be furnished stacked in solid blocks exactly in sequence from the die, saving the labor cost of sorting and arranging. The assembly cost of the transformer is thus greatly reduced, the appearance improved and the efficiency vastly increased.

A large stock of high grade electric steel is on hand at all times to meet customers' needs. Certificates of electro magnetic characteristics can be furnished on all electrical steel used in stampings.

Very high grade dies are designed and built for customers' use.

Production capacity as high as 1,000,000 pieces per day.

# THE PECK SPRING COMPANY

PLAINVILLE, CONN.

## Peck's Improved Radio Antenna Tightener

For the best radio reception it is imperative that radio antennas should be tight and therefore tuned for catching vibrations and carrying them to the receiving set to be tuned and amplified in tone and volume. A slack antenna always means inferior reception. Radio fans will welcome the Peck's Improved Spring Tightener because it is easy to install, keeps the antenna tightened permanently, and is easily disconnected whenever desired.

Peck's improved antenna tightener is made of the very best music wire heavily copper plated, and will withstand a strain of twenty-five pounds. It retains its resiliency perfectly and is far superior to the light weak springs that allow the antenna to sag and lose its proper pitch.



Peck Improved Spring Tightener

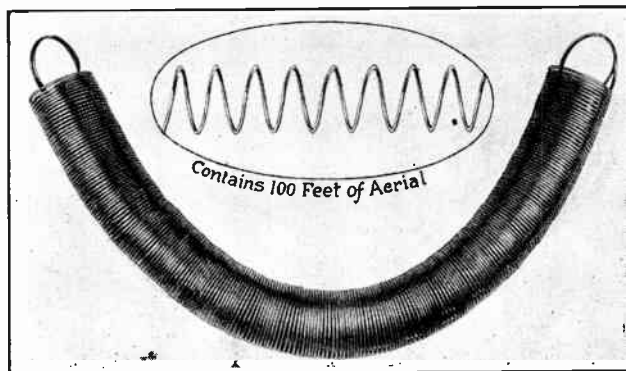
A good insulator is necessary for best results. Our insulators are made of close grained porcelain and will, together with the heavy spring, reduce power losses (due to dielectric absorption) to a minimum.

	List Price
No. 1. Heavily copper plated, 12 in.....	\$1.00
No. 2. Heavily copper plated, 6 in.....	.75
No. 3. Japanned 12 in.....	.75
No. 4. Japanned, 6 in.....	.60

## Peck's Indoor Aerial

Contains approximately 100 feet of steel wire, heavily copper plated. Works equally well outdoors and is especially valuable where lack of space prevents putting up a straight wire antenna 100 feet in length. Fifteen or twenty feet is ample space required to get good results. Being coiled as a spring rigidity is assured.

List Price .....\$1.25



Peck's Indoor Aerial

# H. L. HUBBELL

*Manufacturers of Fine Radio Furniture*

40-50 Market Avenue, N. W.

GRAND RAPIDS, MICH.

### Quality Radio Furniture

Hubbell-Built Radio Furniture has been identified with the radio industry from its infancy. It is designed and built by master craftsmen of many years experience in designing and building fine furniture. Every piece of wood entering into the manufacture of Hubbell Radio Furniture is carefully selected,

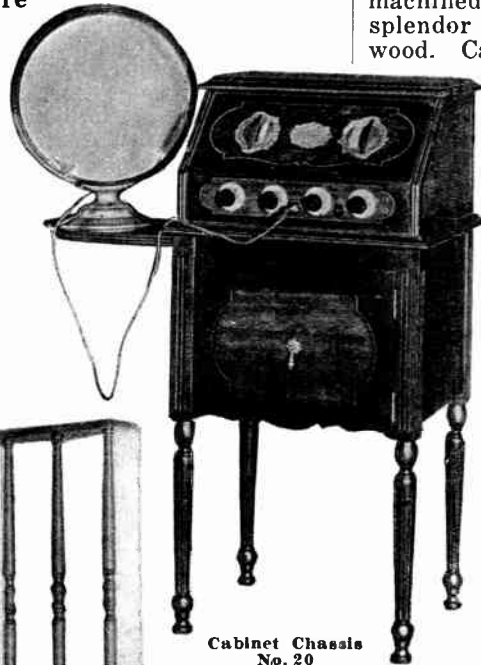
machined, fitted and finished to bring out the rich splendor and contrasting mellow colors of the wood. Cabinets, chassis, tables and consoles harmonize with the quality of furniture in the best appointed homes. Our manufacturing and shipping facilities enable us to fill orders, both large and small, with dispatch.

### To Dealers and Jobbers

The Hubbell proposition means unusual profits to you. We invite you to order samples. We sell through jobbers only.

### To Manufacturers and Jobbers

We make radio furniture to your specifications. Send us drawings, photographs or samples for estimates.



Cabinet Chassis  
No. 20

Length, 17½ in.; height, 14½ in.; width, 14½ in. Finished in two coat lacquer.

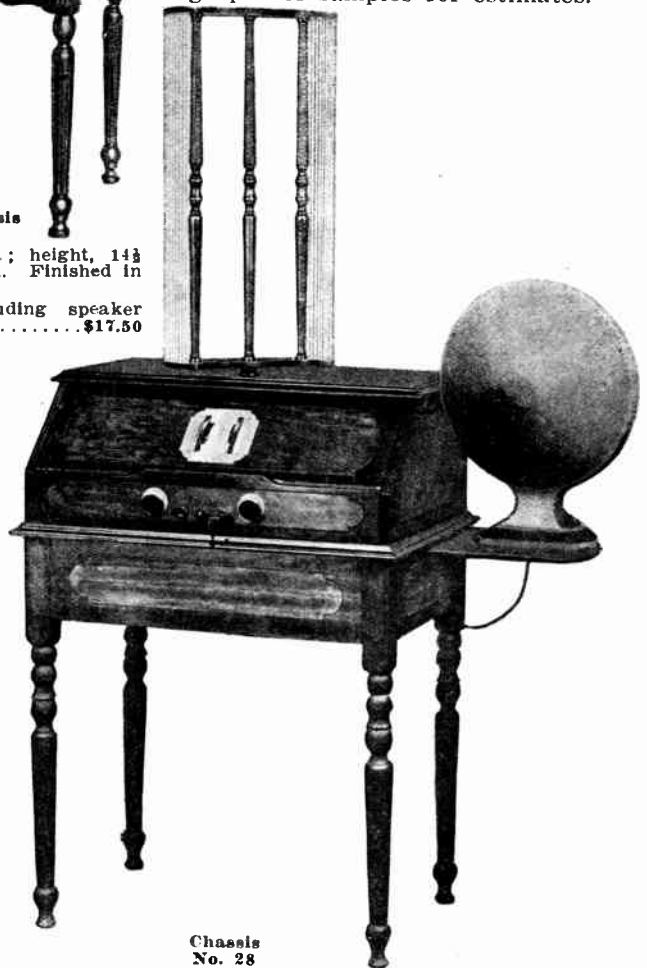
List Price, including speaker shelf .....\$17.50



Cabinet Chassis  
No. 25

Length, 26½ in.; height, 28½ in.; width, 17½ in. Finished in two coat lacquer.

List Price, with speaker shelf and battery slide .....\$20.00



Chassis  
No. 28

Length, 26½ in.; height, 28½ in.; width, 17½ in. Finished in two coat lacquer.

List Price, with speaker shelf .....\$15.00

Advanced Radiola Furniture for Radiolas Nos. 20 and 25

# The RAJAH COMPANY

Standard and High Grade Terminals  
for Radio and Automobile Manufacturers

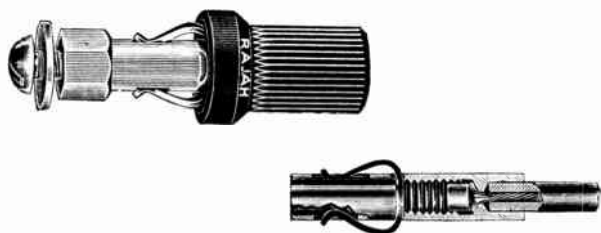
BLOOMFIELD, N. J.

## Rajah Solderless Snap Terminals

These positive, instantaneous connections for panel, ground and battery connections have been approved by various testing laboratories and adopted by some of the largest manufacturers of radio equipment.

Furnished with genuine Bakelite ferrules as shown, in three colors—black, red and green.

No solder and no screws are used—they are merely snapped on and off. Perfect contact is assured by the double spring clip of phosphor bronze.



The base stud is tapped and furnished with 8-32 screw and washer, which fits all B batteries with screw posts, and practically all storage B batteries.

The Rajah Solderless Snap Terminal affords the utmost convenience, both in attachment to the base and securing to the wire.

Wire is attached to the terminal by stripping the wire about 1/8 in. from the end, sliding it into the knurled sleeve, and screwing on to the connector end. The sectional view shows how the wire is spread and bound beyond the possibility of becoming loose. If it is desired to change the terminal from one wire to another, the sleeve is merely unscrewed and the wire pulled out.

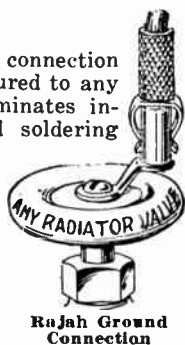
The base is secured to panel or baseboard by screw as shown. To make connection, connector is placed on stud and it is instantly engaged by the double phosphor bronze spring.

- Terminal complete.....\$ .15
- Terminal complete with insulated ferrule..... .25
- Extra base studs, each..... .05

## Rajah Ground Connection

This is a standard solderless snap connection with extension base, which may be secured to any radiator valve handle as shown. Eliminates inconvenience of attaching clamps and soldering wires. Affords a perfect connection; allows set to be moved without trailing ground wire.

List Price, terminal complete..\$ .15



Rajah Ground Connection



Rajah Clip

## Rajah Clips for Grid Leaks and Resistors

Made of spring brass. Insure positive contact. Ends are forked so that grid leaks or resistors can be easily inserted in place. List price, per thousand.....\$6.00

Send for complete catalog, samples and price list

# SHAKEPROOF LOCK WASHER CO., INC.

2517 North Keeler Avenue  
CHICAGO, ILL.

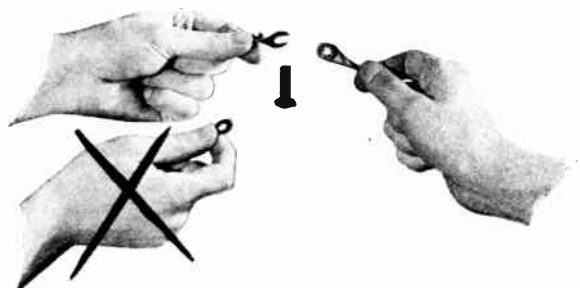
## Shakeproof Locking Wire Terminal

This terminal is a lock washer built into the end of a real lug terminal. Double duty is secured at the great advantage of eliminating the small separate washer otherwise necessary.



It is made of the best phosphor bronze, hot tinned. A positive contact is maintained under all conditions.

Prominent radio manufacturers, including *Crosley*, *American Bosch*, and *Freshman*, gave Shakeproof specialties a trial; first lots and repeat orders in large quantities followed.



The Separate Lock Washer Eliminated

One annoying step in assembling is clearly shown eliminated by the use of Shakeproof Locking Wire Terminals.

## Shakeproof Lock Washers

Where designs call for lock washers alone, the three Shakeproof Types 11, 12 and 15 will insure positive contact. Their twisted teeth are springy and durable, proof against shake or spread. No trouble with tangling.

Sold in sizes up to 1 1/2 in.



Type 11  
External



Type 12  
Internal



Type 15  
Countersunk

## Send for Samples

Shakeproof lock washers and locking lug terminals are being sold in great quantities upon the strength of samples given to leading manufacturers. Inform us of the type and size needed and an ample quantity will be sent you for trial.



# U. S. WIND ENGINE & PUMP CO.

Radio Tower Department  
100 Water St.  
BATAVIA, ILL.

## Radio Towers

The following are some of the broadcasting stations using U. S. Towers:

- KYW
- WLS
- WLW
- WSAI
- WOC
- KMOX
- WHT
- WLIB
- WKRC
- WHO
- WSUI
- WSWS
- WILL
- KFKU
- KSAC
- WAPI
- WSOE
- WCBD
- WJJD
- WJAZ
- WRVA
- KTNT
- WGHP
- WADC
- WOK
- WCMA
- KFUO
- WWJ

## Specifications

Steel—Open hearth, class A, structural steel.

Galvanizing—Hot dip process with pure zinc.

Bolts—Hot dip galvanized;  $\frac{3}{8}$  and  $\frac{1}{2}$  in. diameter.

Splices—Corner splices are butt splices with machined bearing.

Ladder—Galvanized steel ladder on one face of tower.

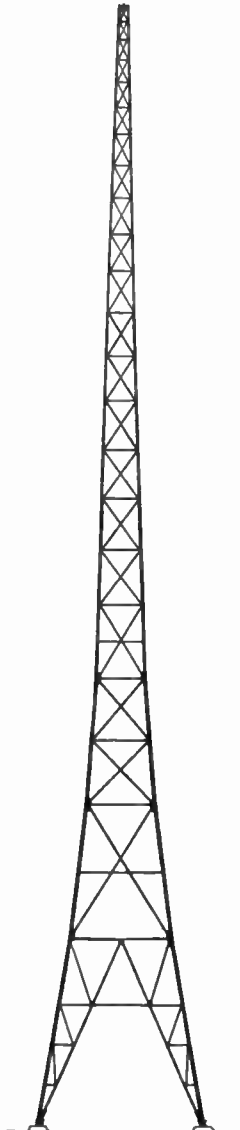
Top Sheave—Graphite bronze bushed; 14 in. diameter.

Wind Load—30 lb. per sq.ft. on twice the area of steel in one face of tower.

U. S. Radio Towers are famous for their strength, appearance and economy.

They are designed to withstand severe storms and heavy antenna loads.

Write for further particulars.



250-ft. Tower Designed and Built By Us for The Chicago Tribune

# FORD RADIO & MICA CORPORATION

111-113 Bleeker Street, New York, N. Y.

## Ford Double Impedance Unit

This impedance unit will quadruple power output of audio tubes, reproduce all frequencies and eliminate tube blocking. It has no magnetic coupling; all frequencies pass directly from the plate of the preceding tube to the grid of the following tube through a by-pass condenser. Each unit has two impedance coils mounted on one core; provided with four outside terminals marked P, G, B and F. Very compact; completely housed in metal case.

List Price .....\$6.00



## Ford Tran-Choke Unit Using Raytheon Tube

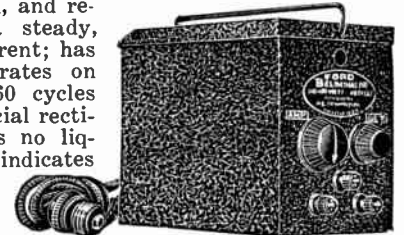
Designed to meet the demand of radio fans who wish to build their own "B" battery eliminator. It consists of a self-contained unit provided with a power transformer and two choke coils mounted in an all metal case. Each unit has ten binding posts individually designated.

"B" battery power ranging from 96 to 135 volts on low, 132 to 212 volts on high, and from 20 to 60 milli-amperes can easily be obtained. List Price...\$13.00



## Ford B Eliminator

Simple, low-priced, and reliable. Produces a steady, constant flow of current; has two controls. Operates on 110 to 120 volts, 60 cycles a-c. Contains a special rectifying tube; requires no liquids. Tell-tale lamp indicates "on" or "off"; unit housed in metal case. List Price....\$32.00



## F.M.C. Audio Frequency Amplifying Transformer

The F. M. C. amplifying transformer is substantially built and will produce smooth reception and amplify distant reception with pleasing clarity. It is made with a standard ratio of 5 to 1. The primary and secondary coils are layer wound on a square core of ample size and weight. Each layer is insulated from the other with onion skin waxed paper. All windings are given a 500 volt break-down test from each other and to the core. Each transformer is substantially mounted and provided with four knurled head binding posts plainly marked. List Price.....\$5.00



## AMERICAN TRANSFORMER CO.

Manufacturers of  
AmerTran Radio Products

178 Emmett Street  
NEWARK, N. J.

### AmerTran Audio Transformers

AmerTran transformers, by actual test, give the greatest amplification possible in a perfect audibility curve. Their wonderful clarity and purity of tone coupled with tremendous volume are the chief reasons for their popularity.

The AmerTran is made by a transformer company of long standing and famous the world over for the manufacture of special transformer apparatus.

### AmerTran DeLuxe Audio Transformer

A new transformer of moderate size and weight with unusually straight line frequency characteristics over the entire audible range down to the lowest notes.



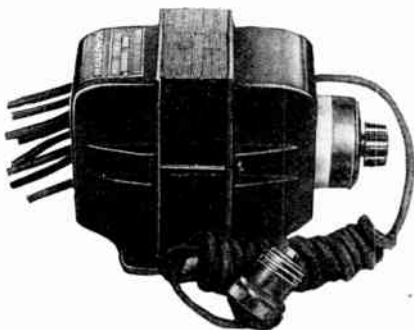
Two types: First stage (turn ratio 3) and second stage (turn ratio 4). The first stage transformer has about 50 per cent greater primary inductance than the second stage transformer, thus more nearly corresponding to operating impedances of tubes out of which they work.

List Price, each .....\$10.00

### AmerTran Power Transformer Type PF-52

Rated at 65 VA, 60-cycle, 110, 118 and 125 volts primary, 525 volts plate, 8 volts (no load) rectifier, 8 volts (no load) filament. For use in circuits requiring maximum plate voltage. Has two 8-volt windings, one of which can be used for the filament of the rectifier tube and the other for the filament of the power tube in the last audio stage.

List Price, \$18.00



### AmerChoke Type 854

A scientifically designed impedance or choke coil of general utility, designed primarily for use in filter circuits. As an output impedance for by-passing direct-current from the loudspeaker, it is just as efficient and more economical than an output transformer. When used with a 1.0 mfd. (or greater) fixed condenser, the tone quality equals that of the best output transformer. D.C. saturation is prevented by two adjustable butt joints in the core.



List Price .....\$6.00

## FERRANTI, INC.

130 West 42nd Street

NEW YORK, N. Y.

FERRANTI, LTD.  
Hollinwood, England  
FERRANTI ELECTRIC, LTD.  
26 Noble St., Toronto, Canada



### Ferranti Audio Frequency Transformers

For many years Ferranti, Ltd., has been manufacturing electrical equipment and high power transformers both for foreign consumption and for use in this country.



Type A. F. 3 Transformer

Ferranti Audio Frequency Transformers bring to radio the utmost in transformer refinements. Their amplification ratio, based on the musical scale, is almost a straight line. For this reason Ferranti Transformers are called "nearly perfect."

### Features of Ferranti Transformers

Ferranti Transformers are characterized by the following peculiarities:

High amplification ratio with flat curve.

Ferranti brings out the fundamental frequency of low tones—none are heard merely by inference from higher harmonics.

Every transformer tested ten times—all short circuit turns eliminated.

Primary shunted with built-in condenser of correct capacity.

Windings have high impedance.

Built by an established manufacturing company with forty years' experience in the winding of coils of fine wire for electrical instruments and meters.

Tested to 1000 volts.

### Types and Capacities

For the best available transformer results use Ferranti Audio Frequency Transformer A. F. 3—ratio  $3\frac{1}{2}$  to 1.  
List Price .....\$12.00

For a transformer far superior to the average, use Ferranti A. F. 4—ratio  $3\frac{1}{2}$  to 1.  
List Price .....\$8.50



# ROBERTSON-DAVIS CO., INC.

DEPT. MH-11

412 Orleans St., Chicago, Ill.

## Introducing the Famous Melo-Heald Eleven Circuit

A straight simplified eleven-tube hook-up based upon sound principles of radio reception and correct transformer design. A circuit that has more power, increased range and greater selectivity.

A circuit that embodies only two major controls—loop and oscillator; and one that enables the operator to handle or dispense with local stations with such ease that distant stations can be received even in the most congested districts.

Handles the entire sphere of radio at a whisper or full studio volume with the same beauty and clearness as rendered.

The only absolutely necessary trade-marked parts

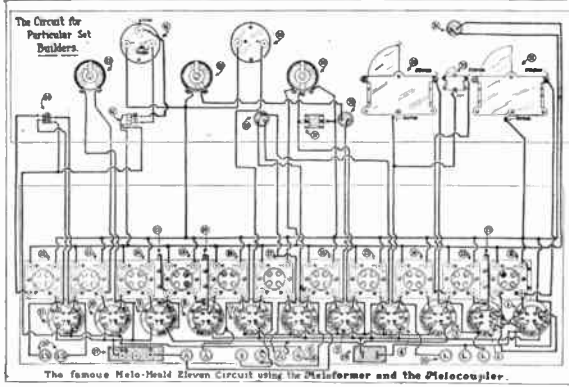
required to build a receiver from the Melo-Heald Eleven Circuit are Melo-formers and Melocouplers described below.

Any other high-grade, recognized standard parts and accessories may be used with them to secure maximum efficiency, because this is not a freak or trick circuit.

The advantage of being able to use any good, approved accessories and parts that you can readily supply from stock will be appreciated.

Each transformer is exactly matched and certified before packing, making kits unnecessary.

Can be supplied separately, at any time and in any quantity.



**Jobbers and Dealers Write for Sales Plan and Proposition**  
Three color circulars with your imprint free, listing all parts required, containing detailed instructions for building, showing two blue print diagrams and completed receiver views, and embodying printed sales message to sell the transformers and parts for you. Also, full size templet blue print, 32 x 22 in. with explicit instructions printed on back—just the thing to hang in your window and to hand to superheterodyne enthusiasts.

### The Meloformer

Three stages of ideal audio frequency are made possible by the Meloformer, which also renders beautiful reproduction without the slightest distortion on as high as four stages. The Meloformer has a solid special alloy core, without laminations, split longitudinally, which takes care of eddy current losses, provides an evenly distributed path, stabilizes impedance, and eliminates leakage flux or stray coupling.

Outside shell also of special alloy, of unusual thickness of 1/4 in., which eliminates stray fields and offers a perfect shield that permits mounting one against the other without interstage coupling. Both coils random wound with 1 1/4 miles of special wire insulated with 7 coats of special enamel, and are so highly insulated that there is no possibility of breakdown even under most excessive peak

voltage. All terminals marked. Top and base genuine bakelite. Handles all stages of audio without the usual doctoring with by-pass condensers or resistors.

Specifications—  
Ratio . . . . . 4 to 1  
Height, over all . . . . 2 3/4 in.  
Base, over all . . . . . 1 1/2 in. diam.  
Top, over all . . . . . 1 1/2 in. diam.

#### Simplicity of the Melo-Heald Eleven Circuit

Melo-Heald Eleven Circuit is so simple to wire and construct that the average experimental builder can make a receiver from it in one-third the time of an average eight-tube set, and have it perform with the same super-excellence as a laboratory model. Few controls. Easy to tune. Controls volume for any speaker. Eleven tubes, yet only a 30-in. panel required. The Meloformer and Melocoupler—necessary transformers to build the circuit—are illustrated here in actual size.

### The Melocoupler

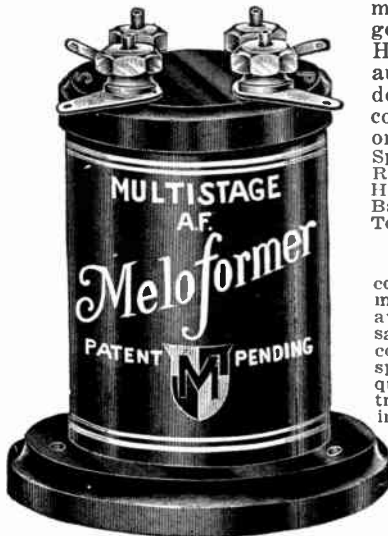
A superior type of radio frequency transformer, built with an air core, for specific service in super construction, Provided in three types: 135 R. F., 120 R. F. and 160 R. F.

Melocoupler 135 is an intermediate transformer for long wave reception. All are peaked at the same frequency. Used for wave lengths above 2400 meters when shunted with proper variable capacities. Remarkably low resistance maintained along with low frequency and excellent stability. Each is so sharply tuned that no filtering system is necessary. Natural resonant frequency, 125 kilocycles.

Melocouplers 120 and 160 (for special circuits) have special bank-wound secondary of low d-c. resistance and sufficient inductance to cover broadcast band when shunted by proper capacity. Melocoupler 120 is used

when low primary impedance is required—mixing of pick-up transformer. Melocoupler 160 is used when high primary impedance is required—oscillating transformer.

Specifications (same for all 3 types):  
Height, over all . . . . 2 3/4 in.  
Base, over all . . . . . 1 1/2 in. diam.  
Top, over all . . . . . 1 1/2 in. diam.



	List Price, each
Meloformer . . . . .	\$4.00
Melocoupler 120 R. F. . . . .	5.75
Melocoupler 135 R. F. . . . .	6.00
Melocoupler 160 R. F. . . . .	5.25



# SAMSON ELECTRIC COMPANY

*Manufacturers of Quality Electrical Merchandise Since 1882*

CANTON, MASS.

Factories at Canton and Watertown, Mass.

*Sales Offices:*

ATLANTA BOSTON BUFALLO CHICAGO CLEVELAND DALLAS DENVER DETROIT INDIANAPOLIS  
 KANSAS CITY LOS ANGELES MINNEAPOLIS NASHVILLE NEW ORLEANS NEW YORK PHILADELPHIA  
 PITTSBURG PORTLAND SALT LAKE CITY SAINT LOUIS SAN FRANCISCO SEATTLE TAMPA

## Samson Audio Frequency Units



The Samson Electric Company lists below the largest line of audio frequency units of any manufacturer, and each unit is the result of careful research and design over a period of years, and is adequately adapted for the purpose recommended. All units are interchangeable in size as illustrated in the photograph, and are hermetically sealed so that their characteristics are permanent.



Furnished adaptable for any type of mounting, and recommended for use where condensers of a precision type are required.

	List Price
<b>Samson HW-A3 Transformer</b>	<b>\$5.00</b>
Made in ratios of 6-1, 3-1, 2-1	
<b>Samson Symphonic Transformer</b> .....	9.00
<b>Samson Push-Pull Input Transformer</b> .....	5.50
<b>Samson Dual Impedance</b> .....	5.00
<b>Samson Push-Pull Impedance</b> .....	5.00
<b>Samson Plate Impedance</b> .....	4.50
<b>Samson Grid Impedance</b> .....	4.50
<b>No. 3 Audio Frequency Choke</b> .....	3.00

500 Mmf. capacity.....	\$7.50
350 " " .....	7.25
250 Mmf. capacity.....	7.00
75 " " .....	7.00
125 " " .....	7.00

## Samson Radio Frequency Choke Coils

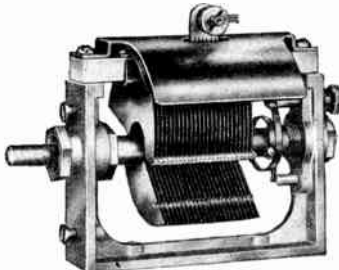


Samson Electric Company, due to its patented helical winding, produces the only satisfactory Radio Frequency Choke Coils due to their small distributed capacity effect. These choke coils are small in size, and can be readily used in most any set or circuit to advantage.

Furnished equipped with mounting brackets and soldering lugs for attaching a by-pass condenser if desired.

	List Price
85 millehenry choke coil.....	\$1.50
125 " " " " .....	2.00

## Samson Uniform Frequency Condenser



The most compact and highly efficient variable condenser manufactured, with a guaranteed accuracy of plus or minus 1% of its rated capacity.

## Audio Frequency Amplification

Samson Electric Company has prepared a booklet on Audio Amplification comprising 40 pages of material on this subject which has heretofore been unpublished. This book is of value to any jobber, dealer or experimenter who is interested or has to build or service Radio receivers. Price 25c per copy.

## Other Products

In addition to the products listed herein, the Samson Electric Company manufactures Inductance Units, Couplers of all types, Neutralizing Condensers and many other Radio items. Literature describing these products sent on request.

# Thordarson Electric Manufacturing Co.

Transformer Specialists Since 1895

CHICAGO, ILL.

## Transformers for Every Purpose

Thordarson is one of the world's oldest and largest exclusive transformer makers, its products including radio receiving and transmission transformers of all kinds, also bell ringing and miniature transformers. Because of their musical, electrical and mechanical superiority there are more Thordarson transformers used as standard equipment on the sets of leading manufacturers than all competitive transformers combined.

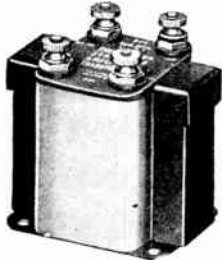
### Super Amplifying Audio Frequency Transformers

The standard of many leading set manufacturers. Unusually large musical range; excellent reproduction.

**6-1 Ratio**—Recommended for 1-stage amplifiers where maximum amplification from one tube is desired. Primary d-c. resistance, 750 ohms; secondary, 5100 ohms. Inductance of primary, approximately 12 Henrys. Allowable current, 10 milliamperes.  
**Catalog No. R-151. List Price...\$4.50**

**3½-1 Ratio**—Recommended for the average 2-stage amplifier under normal conditions. Primary d-c. resistance 1075 ohms; secondary, 100 ohms. Inductance of primary, approximately 20 Henrys. Allowable current, 10 milliamperes.  
**Catalog No. R-150. List Price...\$4.00**

**2-1 Ratio**—For all 3-stage amplifiers in connection with sets having a large detector output, such as tuned and untuned radio frequency and reflex.  
**Catalog No. R-152. List Price...\$5.00**



**Sub-panel Mounting Type**—The super amplifying transformer is also furnished with leads from the base for use in sets mounted on sub-panels. Provides neater assembly, shorter leads, and makes the set look attractive. They have the same characteristics as the transformers described above.

**Catalog No. R-181 (6-1 ratio). List Price...\$4.50**  
**Catalog No. R-180 (3½-1 ratio). List Price... 4.00**  
**Catalog No. R-182 (2-1 ratio). List Price... 5.00**

### R-200 Amplifying Transformer

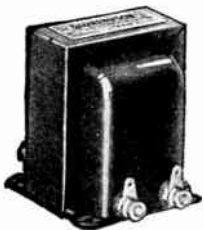
A quality transformer with unusually faithful reproductive powers and a very wide amplification range. The super-sized core combined with the high inductance primary result in the evenness of amplification so characteristic of the transformer. Designed for 2-stage amplifiers. Ideally suited for use with cone type speakers. Used in high priced, high quality receiving sets. Net weight, 2 lb.



List Price  
**Catalog No. R 200...\$8.00**

### R-190 Autformer All-frequency Amplifier

A superior impedance amplifier—with a step up ratio. Combines the all frequency amplification feature of the impedance with the amplification increase of the transformer—a special Thordarson development. Amplifies, with even magnitude, all notes within range of the human ear—the deepest notes of the organ receive the same attention as the high C of the soprano. Weight, 2 lb.



List Price  
**Catalog No. R 190...\$5.00**

# THORDARSON

## Transformers for Power Amplification and B Supply

### Thordarson Power Compact R-171—

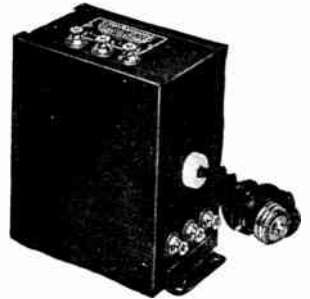
The complete foundation unit for B-supply and power amplification using Raytheon tube BH rectifier and UX 171 power amplifier. Contains (1) a power supply transformer, (2) two filter chokes, (3) two buffer condensers, (4) a 5 volt center tapped filament supply,—all in one compound filled case. Primary equipped with cord and plug for 110 volt, 60 cycle house current. Dimensions 3½x5½x6 in. high overall.

List Price .....\$15.00

**Thordarson Power Compact R-210**—Similar to type R-171 but designed for UX 216-B rectifier and UX 210 power amplifying tube.

Contains (1) a power supply transformer, (2) two filter chokes, (3) a 7½ volt center tapped filament supply. Supplies complete A-B-C energy to power amplifier and B voltage to receiver. Cord and plug for attachment to 110 volt 60 cycle house current. Dimensions 8½x5½x6½ in. high over all.

List Price .....\$20.00



### R-197 Eliminator Transformer—

Supplies necessary voltages for operating B-eliminators using UX 213 or CX 313 full wave rectifying tubes. Eliminators built with this transformer will satisfactorily furnish V-voltage up to 180 volts with sufficient capacity to operate any receiver.

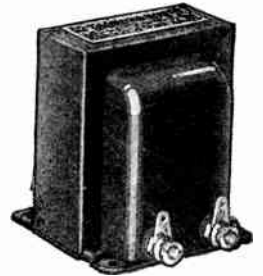
Dimensions 4½x3½x3½ in. high.

List Price .....\$7.00



**Choke Coil R-196**—Designed either as a filter choke or for output purposes to protect the loudspeaker against the high voltage of power amplification. 30 henries inductance, 280 ohms d-c. resistance, 80 milliamperes capacity.

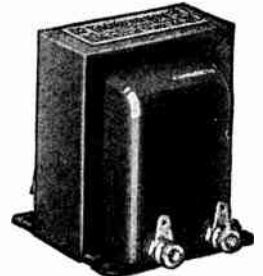
List Price .....\$5.00



**Speaker Coupling Transformer R-76**—An output transformer to protect the loudspeaker against the high voltage of power amplification. In case same as Choke Coil R-196.

Adapted especially for use with power tubes UX-171 and UX-210.

List Price .....\$6.00



# Precise Manufacturing Company

Factory and Main Office  
254 Mill Street  
ROCHESTER, N. Y.

## Precise Products

Transformers, Condensers, Dual Condensers, Gang Condensers, Syncro-condensers, Microcondensers, Condenser Couplers, Set Brackets, Protectoswitches, etc.



### No. 480 Transformer

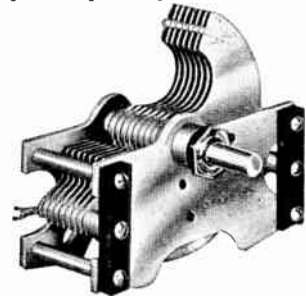
A large type transformer in either 5-1 or 2½-1 ratio. For single stage of transformer coupled amplification, the 5-1 ratio will give most pleasing results; for greater volume, two stages of amplification employing a 2½-1 ratio transformer in each. Housed in attractive, crystalline case. Elements carefully balanced and matched by laboratory methods.



List Price .....\$5.00  
Also furnished in unshielded type.

### No. 401 Transformer

An unshielded and especially designed instrument for use by set manufacturers. Smaller than the 480. Details and quantity prices upon request.



### No. 999 Condenser

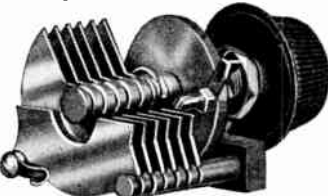
Three capacities—250, 350 and 500 mmf.  
Selected brass, gold-plated plates.  
Ball thrust bearing.  
Single-hole mount.  
Grounded rotor.  
Accurately calibrated to a laboratory standard.  
Reasonably priced.

List Prices  
250 mmf. ....\$2.25  
350 mmf. .... 2.25  
500 mmf. .... 2.50

### Microcondensers

Made in 10, 30, 55, 100 and 135 mmf. capacities. Recommended for neutralization balancing, antenna couplers and tuning units for short-wave reception. The 100 mmf. is specified in Browning Drake receivers; 55 mmf. is specified in "Radio Broadcast" and Henry Lyford receivers, etc.

List Prices  
10 mmf. ....\$1.25  
30 mmf. .... 1.50  
55 mmf. .... 1.50  
100 mmf. .... 1.75  
135 mmf. .... 2.00



### Protectoswitch

An automatic overload cutout switch with manual control.  
Used on power units, power transformers, etc.  
Specified by Amaran.  
Small and compact.  
All wiring concealed.  
Attractive installation.  
Protection against overloads and short circuits.  
List Price .....\$3.75

Manufacturers invited to write for details on entire line and engineering service. Jobbers for discounts.

# C. E. MFG. CO., INC.

702 Eddy St., Providence, R. I.



## CeCo Vacuum Tubes

The CeCo plant is the largest in the world devoted exclusively to the manufacture of radio tubes.

The types of tubes are made as listed below. A complete line is made, providing a type for every radio need.

Long life is a feature of every CeCo tube. They are nationally advertised in magazines and newspapers to make "a good receiver better."

### CECO TUBE CHARACTERISTICS IN BRIEF

Models	Filament, Volts	Filament Voltage	Plate Voltage
A Type 201.....	5	.25	20-135
B Type 199.....	3	.06	20-90
C Type 199 (large base).....	3	.06	20-90
E (120) Power Amplifier.....	3	.125	135
F (112) Last Audio Stage.....	5	.5	90-180

Type E (dry cell) and F (storage battery) are power amplifiers for use in the last stage of audio frequency and will give increased volume and clearer reproduction without distortion, especially for D.X. reception.

## Three New CeCo Tube Developments

Type G High Mu.—For impedance or resistance coupled receivers.

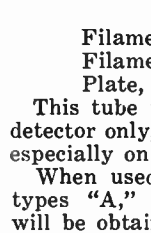


Rating  
Filament, volts..... 5  
Filament, amperes... 0.25  
Plate, volts.....90-180

These tubes, when used in all audio frequency sockets except the last or output socket in receivers of impedance or resistance coupled types, will give clearer reproduction with increased volume.

Complete instructions for the most efficient results packed with each tube.  
List Price .....\$2.50

Type H Special Detector—Non-critical as to filament or plate potential.



Rating  
Filament, volts..... 5  
Filament, amperes... 0.25  
Plate, volts.....67-90

This tube is intended to be used as a detector only, and will improve reception, especially on DX or distant stations.

When used in conjunction with CeCo types "A," "F" or "G," ideal results will be obtained.

Instruction sheet packed with each tube.  
List Price .....\$2.50

Type J-71 Output Tube—Will handle sufficient power to operate the largest loud speakers at full volume. Does not require high voltage plate supply. At 90 volts it will give twelve times the undistorted power of the ordinary "A" type.

To be used in receivers where a separate "C" battery connection for the last tube is furnished. Can be used on voltages up to 180 with enormous volume output, provided a special output circuit is used to protect the loud speaker.  
Filament 5 Vol. —½ Amp.  
List Price .....\$4.50



Complete characteristic sheet will be sent to wholesalers and retailers on request.



# PERRYMAN ELECTRIC COMPANY

33 W. 60th Street, New York, N. Y.  
Laboratories and Plant—North Bergen, N. J.



## A Complete Line

The Perryman line of radio tubes includes every type for all usual purposes, each designed and made to fulfill all the conditions of severe and exacting service. Detectors, amplifiers, power amplifiers and rectifying tubes for battery eliminators of various kinds make up the line.

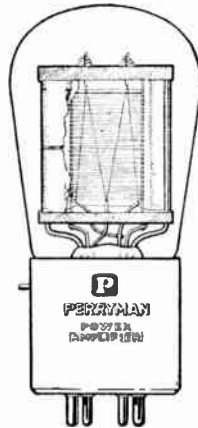
## The Patented Perryman Bridge

In Perryman tubes the filament, grid and plate are accurately spaced and permanently held in fixed alignment by the patented Perryman bridge—an exclusive feature. This accurate automatic spacing makes perfectly matched tubes that are not affected by the rough handling that would ruin tubes of any other construction.

Each Perryman tube is unconditionally guaranteed. Perryman dealers are assisted by an active, effective merchandising plan that actually sells tubes for them.

## Tubes for Special Purposes

Where factors in new tube designs must be controlled within narrowest limits, or where special problems confront manufacturers, we have the engineering skill and laboratory facilities to produce any special tube.



The Patented Perryman Bridge  
Pat. June 22, 1926



Half Wave Rectifier  
Type P.R. 216-B  
Super-Power Amplifier  
Type P.A. 210  
Full Wave Rectifier  
Type P.R. 213



Supersensitive Detector  
Type P.D. 200-A  
Amplifier-Detector  
Type R.H. 201-A  
Power Amplifier  
Type P.A. 112  
Power Amplifier  
Type P.A. 171  
Half Wave Rectifier  
Type P.R. 216-A



Amplifier Detector  
Type R.H. 199  
Power Amplifier  
Type P.A. 120

# RAYTHEON MANUFACTURING COMPANY

Makers of Reliable Rectifiers  
CAMBRIDGE, MASS.

## Raytheon Rectifier, Type B



Type B is standard for most types of B-power service, delivering ample power and standing any load up to 150 volts and 60 milliamperes output.

The introduction of this rectifying tube made light socket B-power really reliable.

Retail price .....\$6.00

## Raytheon Rectifier, Type BH

Type BH is designed for heavy duty applications of light socket power. It will stand a load of 200 volts and 85 milliamperes output.

The introduction of this rectifying tube made possible the recent remarkable developments of power amplifiers and complete A.C. operated receivers using 199 tubes connected in series. Type BH may be used as a replacement for Type B but in most cases will raise the voltage output by about 30 volts.

Retail price .....\$6.00



To protect both the consumer and the dealer, Raytheon rectifiers are sold only to manufacturers of recognized standing, whose complete units have been approved by the Raytheon Laboratories. A dealer requiring tubes for replacement should procure them from the manufacturer whose unit he is selling.

There is only one quality of Raytheon rectifier, and that is the best that engineering skill and scientific factory methods can produce. You may buy with confidence from authorized Raytheon B-power manufacturers.

*"Raytheon is the Heart of Reliable Radio Power"*

# RADIO RETAILING

"The Business Magazine of the Radio Industry"

A McGraw-Hill Publication

475 Tenth Avenue  
NEW YORK, N. Y.

## Radio Retailing's Service to Radio Manufacturers

Radio Retailing presents to manufacturers an advertising service unique in the radio field. Its leadership is based on the following facts:

### (1) Coverage—

Radio Retailing, with the largest total and paid (30,000 total; 17,050 paid) circulation of any radio trade publication, assures its advertisers complete coverage of the field, reaching every known radio manufacturer, worth-while radio dealer and jobber in the country, in no matter what trade they may be located. A detailed circulation statement is given below:

Class	Paid Circulation	Free Circulation	Total Circulation
1. Manufacturers.....	497	763	1,260
2. Jobbers, manufacturers' agents, distributors.....	1,555	515	2,070
3. Light companies selling radio...	345	262*	607
4. Exclusive radio stores.....	3,009	2,355*	5,364
5. Electrical dealers and contractor dealers.....	3,627	3,352*	6,979
6. Phonograph and music stores..	1,639	1,690*	3,329
7. Department and furniture stores	675	863*	1,738
8. Hardware stores.....	1,009	639*	1,648
9. Automobile accessory stores...	2,649	1,639*	4,288
10. Sporting goods, drug and miscellaneous stores.....	1,301	802*	2,103
11. Clubs, associations, advertising agencies, etc.....	544	70	614
Total.....	17,050	12,950	30,000

\* Selected on basis of dealers' inventory.

### (2) Editorial Merit—

Merchandising features, costs records, news of the industry, the radio business barometer, new merchandise and other editorial departments all contribute to Radio Retailing's editorial supremacy and acceptance by the trade.

### (3) Advertising Value—

So effective an advertising medium is Radio Retailing that manufacturers spend more money for advertising in Radio Retailing than in any other trade publication carrying radio advertising.

A schedule of Radio Retailing's advertising rates is given below:

	1 Time	3 Times During the Year	6 Times During the Year	12 Times
1 page.....	\$350.00	\$320.00	\$310.00	\$300.00
1/2 page.....	175.00	175.00	160.00	155.00
1/4 page.....	87.50	87.50	87.50	80.00
1/8 page.....	43.75	43.75	43.75	43.75

### (4) Service to Radio Manufacturers—

Radio manufacturers who wish to increase their distribution, practically to obviate waste circulation, to place their sales messages before intelligent and successful merchandisers of radio and to reach these men for the least money, can secure interesting data and information on how to do these things from Radio Retailing.

# SYLVANIA PRODUCTS COMPANY

Makers of Fine Radio Tubes  
EMPORIUM, PA.

## Sylvania Radio Tubes

Sylvania radio tubes are strictly high quality products catering to the best jobbers, distributors and dealers.

They are made by a strong experienced organization working as a unit to produce what many believe are the finest tubes made. "They Never Disappoint."



**Sylvania SX01-A for Amplifier and Detector Service**  
Filament voltage.... 5 Filament current.... .25  
Plate voltage..... 20-135  
Amplification constant..... 8-9  
Mutual conductance ..... 780\*  
\*Plate volts, 90; grid volts, 4 1/2.

**Sylvania 801-A Tube**—Has same specifications but has old Navy Type base.



### Sylvania SX12 Power Amplifier for Use in Last Audio Stage

Filament voltage.... 5 Amplification constant 7-8  
Filament current.... 0.5 Mutual conductance.1400  
Plate voltage ..... 135

The use of 135 volts on plate with negative grid voltage of 9 volts is recommended.



### Sylvania SX71 Power Amplifier for Use in Last Audio Stage

Filament voltage.... 5 Negative grid bias  
Filament current.... 0.5  
Plate voltage .... 90-180 16 1/2-40 1/2

### Sylvania SM20 High Mu. Tube

Filament voltage.... 5 Amplification factor 20  
Filament current.... .25 Mutual conductance 750\*  
Plate voltage.... 90-250 Plate impedance 35,000\*  
\*Plate volts, 90; grid volts, 0.

At 60 volts on the plate and zero grid volts this tube will have the following characteristics:  
Amplification factor.. 20 Mutual conductance. 500  
Plate impedance ..... 40,000  
Recommended for resistance coupled amplifiers.



### Sylvania SX99 for Amplifier and Detector Service.

Filament voltage.... 3 Amplification constant 6-7  
Filament current.... .06 Mutual conductance.430\*  
Plate voltage ..... 90

\*Plate volts, 90; grid volts, 4 1/2.

**Sylvania S99**—Has same specifications as SX-99 but has old Navy Type base.

**Sylvania LS99 "Large"**—Has standard or adapter base and same specifications as SX99.

### Sylvania SX20 Power Amplifier for Use in Last Audio Stage

Filament voltage.... 3 Amplification constant.3-4  
Filament current... .125 Mutual conductance. 500  
Plate voltage ..... 135

Plate voltage should be 135 with negative grid voltage of 22.5.



### Sylvania SD2 Detector and Amplifier

Filament voltage ..... 1.1  
Filament current ..... 25  
Plate voltage ..... 22 1/2-90  
Amplification constant ..... 5-6  
Mutual conductance ..... 400



### Sylvania SR5 Rectifier Tube for "B" Battery Eliminators

Filament voltage.... 5 Maximum a-c. volts. 350  
Filament current.... 1.0 root mean square across  
Plate current 25-30 M.A. plate and filament.



# LESLIE F. MUTER COMPANY

76th and Greenwood Avenue

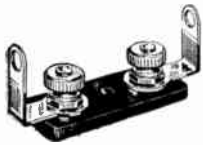
CHICAGO, ILL.



No. 1800 Interference Eliminator  
List Price .....\$2.50



Grid Leak  
List Price .....\$3.30



No. 800 Grid Leak Mounting  
List Price .....\$2.20



No. 2010 Knife Switch  
List Price .....\$7.70



No. 2020 Knife Switch  
List Price .....\$1.00



No. 2030 Knife Switch  
List Price .....\$1.50



No. 2050 Knife Switch  
List Price .....\$2.50



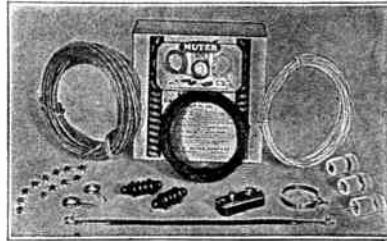
No. 1500 A. F. Transformer, Ratio 3 1/2 to 1  
List Price .....\$2.25

No. 1550 A. F. Transformer, Ratio 5 to 1  
List Price .....\$2.50

DEPENDABLE



PRODUCTS



No. 250 Standard Aerial Kit  
List Price .....\$3.50  
No. 1050 Guardian Kit  
List Price .....\$5.00



No. 1900 Balancing Condenser  
List Price .....\$1.00  
No. 1950 Grid Condenser  
List Price .....\$1.00



Resistance Unit  
List Price .....\$1.50  
List Price, mounting alone .....\$5.00



No. 1100 Phone Plug  
List Price .....\$5.00



No. 200 Lightning Arrester  
List Price .....\$5.50



No. 1000 Lightning Arrester  
List Price .....\$1.00



No. 1200 Ground Clamp  
List Price .....\$2.00



No. 1250 Lead-In  
List Price .....\$2.25



No. 1400 3-stage Resistance Amplifier  
List Price .....\$8.00

No. 1410 2-stage Resistance Amplifier  
List Price .....\$6.00

Muter Filter and By-Pass Condensers furnished in Windings, Units and Blocks. Complete catalog on request



No. 2500 Special Resistance  
List Price .....\$1.15



Variable High Resistance  
List Price .....\$1.25

Variable Grid Leak  
List Price .....\$1.25

Variable Rheostat  
List Price .....\$1.00



Fixed Condenser  
List Price..\$.30 to \$.85



Fixed Rheostat  
List Price .....\$5.50



No. 1600 Panel Switch  
List Price .....\$4.40



No. 900 Baby Switch  
List Price .....\$2.20



No. 925 Baby Switch  
List Price .....\$3.30



No. 950 Baby Switch  
List Price .....\$5.50



No. 2600 Antenna Plug  
List Price .....\$6.00



# WILLIAM BRAND & CO.

*Electrical Insulating Materials*

27 East 22nd Street  
NEW YORK, N. Y.

*Representatives*

CLARK-SMITH CORPORATION      GRIFFITHS AND HENDERSON  
128 Woodward Avenue      217 Dickson Street  
DETROIT, MICH.      ST. LOUIS, MO.

W. H. SIMPSON  
11 South Desplains Street  
CHICAGO, ILL.

A. S. LINDSTROM COMPANY  
SAN FRANCISCO, CALIF.      LOS ANGELES, CALIF.  
SEATTLE, WASH.      PORTLAND, ME.  
SALT LAKE CITY, UTAH



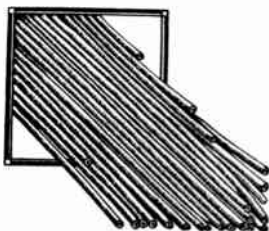
## Quality Varnished Tubing ("Spaghetti")

Made of the highest grade, closely braided cotton yarn, impregnated and baked—not dipped.

It is flexible, durable, smooth coated, thin walled and has no inside obstruction.

It has high dielectric strength; resisting oil, water, acids, gas and heat.

Always flexible—will not dry out and become brittle.



## Mica Diaphragms

Mica diaphragms for radio loud speakers and units are made of carefully selected African mica and reproduce the finest tonal qualities.

## Mica Condenser-Plates

Made of quality mica for condenser use.

Recommended for its high dielectric constant, high insulation and temperature resistance and extremely low loss.

# SIMPLEX RADIO DEVICES, INC.

231 Mulberry Street  
NEWARK, N. J.

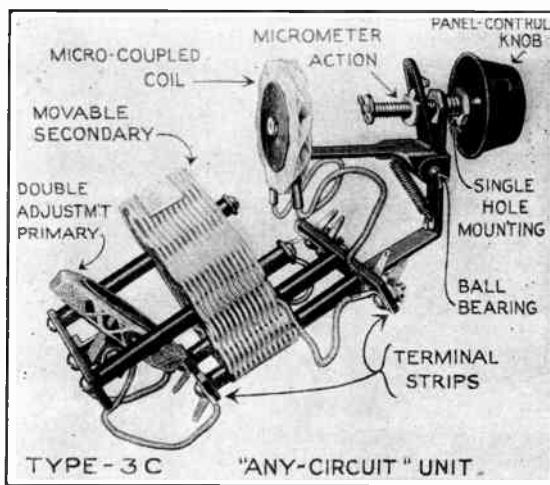
## The Micro-Coupler—The Only Inductive Unit with Precision Control



The Micro-Coupler is a new and unique tuner which may be used as a three-circuit tuner, or,

by removal of its primary, as a tuned radio frequency transformer with variable primary. It embodies the most efficient possible method of coil coupling, and can be substituted for any other tuner on all hook-ups. It makes any hook-up better by positively controlling oscillation at point of maximum volume.

A supersensitive vernier effect over the entire coupling range is obtained on the movable coil by the micrometric pitch of the adjusting screw. The coils are air wound for extra low loss; both primary and secondary coils are independently movable along the support rods. All Micro-Coupler secondaries cover the broadcast range when used with 23-plate (.0005 mf.) condensers.



Type 3C Micro-Coupler

The Micro-Coupler requires but a single hole for mounting and a single knob to control. All metal parts are of brass, the stampings finished in zaponized red enamel, the other parts being nickelled and polished. The entire assembly is of the best materials and will give perfect operation indefinitely. A remarkably smooth, easy frictionless movement is obtained by the use of ball bearings—something no other coupler uses.

	List Price
Type 3C, 3-coil Micro-Coupler.....	\$8.00
Type 2C, without primary coil.....	7.00
Antenna or primary coil.....	1.00

Prices f.o.b. factory, Newark, N. J.

*The Micro-Coupler has received the official expressions of approval from Radio Broadcast, Popular Radio Laboratory, Radio News Laboratories and the Popular Science Institute of Standards.*

## DUDLO MANUFACTURING CORPORATION

*Magnet Wire and Windings*

FORT WAYNE, IND.

EASTERN OFFICE, 412 Chamber of Commerce Bldg.,  
NEWARK, N. J.

CHICAGO OFFICE, 160 N. LaSalle Street

PACIFIC COAST OFFICE, 274 Brannan Street  
SAN FRANCISCO, CAL.



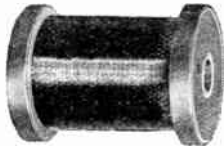
### Dudlo Windings

Used extensively by manufacturers of radio and other electrical apparatus, Dudlo self-contained, layer wound and layer insulated coils are generally regarded as standard for audio transformers, chokes and transformers for A battery chargers and B battery eliminators, as well as for all other radio units where coils are used. Dudlo Coils are wound to manufacturer's specifications or designed by Dudlo engineers to meet specified requirements.



### Enameled Magnet Wire

Produced in sizes from 10 to 46. Insulated with a smooth, even coating of Dudlo flexible enamel of high dielectric strength. Uniform diameter. Preferred by radio engineers for its resistance to heat or chemical action and its ability to withstand physical contortions. Requires less space and is more economical to buy and use than Fabric Insulated Wire. Special wires to meet customers' requirements.



### Fabric Insulated Magnet Wire

For many years considered one of the staple products in the electrical industry. Produced in every type or combination of Fabric Insulation. Single or double cotton or silk, white or colored. Silk over cotton is furnished; also, on special order, fabric over enamel. Flexible cables, Litzendraht wire, either braided or twisted, insulated to customers' specifications. A wire extensively used for head sets; loud speaker units; transformers; filter, inductance, choke and tuning coils in radio. All Dudlo Magnet Wire, whether enameled or Fabric Insulated, is furnished in bulk or on small spools, 1 lb. or fraction on each spool.



### Aerial Wire

Made in enameled, tinned, and bare copper—solid, twisted or braided. Furnished either in bulk or coiled to lengths in all sizes regularly required.

### Engineering Service

The Dudlo engineering and experimental departments are at the service of radio engineers and manufacturers. Assistance gladly furnished without obligation.

## Electrical Products Manufacturing Company

*69 Sprague Street*

PROVIDENCE, R. I.



### Designers and Manufacturers of Duo Lateral Coils, Honeycomb Coils and Inductance Coils

This company, with its highly organized engineering department, has, for many years, specialized in making coils of all descriptions.



The Duo Lateral Coil, pictured above, is the exclusive patent of the Electrical Products Manufacturing Company. Duo Lateral coils are compact and mechanically strong, embodying the greatest possible inductance for their size.

In the commercial field, where accuracy and dependability are paramount, we specialize in self-supporting, cotton insert, impregnated coils, for application in electrical apparatus—mailing devices, traffic signals, automotive devices, electrically operated adding machines and typewriters, oil burning equipment, recording gauges, etc.

We are also builders of special choke and transformer windings, to specifications.

# CORNISH WIRE COMPANY

30 Church Street, New York, N. Y.

BOSTON, 80 Federal St.  
CHICAGO, 337 W. Madison St.



KANSAS CITY, 208 Baltimore Bldg.  
SAN FRANCISCO, 585 Mission St.

## Corwico Products

- |  |                                       |
|--|---------------------------------------|
| Aerial Wire<br>(Solid, Stranded and Braided) | "Flexibus"<br>(Flexible Hook-Up Wire) |
| Flat Braided Ribbon Antenna                  | Loop Aerial Wire                      |
| Magnet Wire                                  | Litz Wire                             |
| Bus Bar Wire                                 | Annunciator or Bell Wire              |
| "Echo" Indoor Aerial Tape                    | Flexible Wire                         |
| Battery Cable                                | Galvanized Steel Cable                |
| Lead-In Wire                                 | Detector Wire                         |
| Hook-Up Wire                                 | Bare Copper Wire on Spools            |

## Prices and Discounts

Jobbers and dealers are invited to write for the new Corwico catalogue, giving full specifications, prices, and discounts for the complete Corwico line.  
Manufacturers—Let us quote on your requirements.



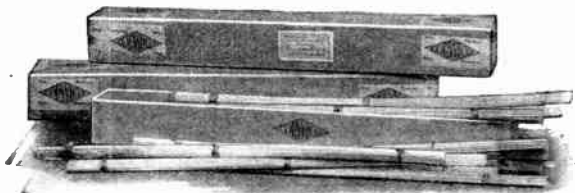
### Aerial Wire

Corwico Aerial wires possess large surface areas, high electric conductivity and tensile strength. They are made solid, stranded and braided of plain, tinned and enameled copper wire.



### Magnet Wire

Made of the best grade copper wire and insulated of the finest materials obtainable. Each spool contains a single length of wire, neatly wound and suitably labeled. Supplied in single and double cotton, single and double silk and plain enamel.



### Bus Bar Wire

Made in uniformly straight lengths from either sharp cornered, square tinned or round tinned copper wire. Each 100 lengths bound together. Each 1000 lengths packed in attractive fibre board containers.



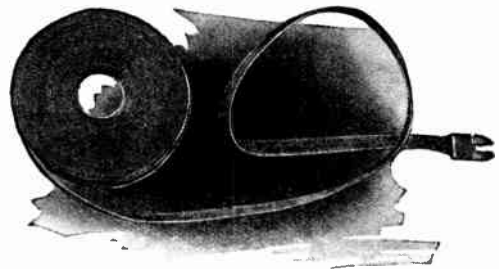
### Loop Aerial Wire

Specially constructed multistrand wires designed to give highest efficiency in indoor reception. They are double, covered with silk or cotton in colors to meet all requirements



### "Flexibus"

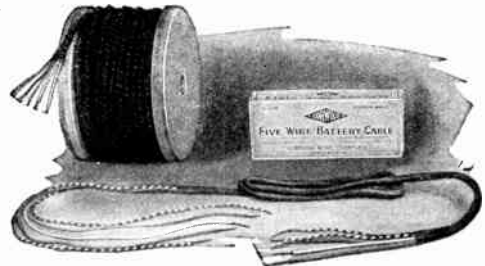
Corwico "Flexibus" is a flexible insulated multistrand copper hook-up wire. It makes a neat and efficient product for "point to point" and sub-panel wiring. It is covered with a varnished cambric flameproof insulation finished in the following colors: red, green, yellow, brown and black.



### "Echo" Tape

Corwico "Echo" Tape is a flexible metallic ribbon antenna especially manufactured for indoor reception. It is as flexible as a fabric tape yet contains as much effective metallic surface as a solid metal strip. Especially designed for radio installations in apartments, hotels, etc. where outside aeriels are impossible.

Each 100-foot length of "Echo" Tape comes in an attractive carton.



### Battery Cable—Five Wire

Each individual conductor is insulated in a different color for the purpose of identification and the five wires are enclosed in a neat and substantial braid of either cotton or silk. Corwico Cable prevents burning out of tubes, insures good contacts and guarantees neat installation.



# THE PACKARD ELECTRIC CO.

WARREN, OHIO

BUFFALO, N. Y.  
502 Marine Trust Building  
DETROIT, MICH.  
514 Stephenson Building

ATLANTA, GA.  
COLLEY-MINNICH COMPANY  
DALLAS, TEX.  
FRANK W. LYNN  
DENVER, COLO.  
DUNCAN BOND COMPANY

SALES OFFICES  
CHICAGO, ILL.  
610 Wrigley Building  
NEW YORK, N. Y.  
50 Church Street

AGENTS  
KANSAS CITY, MO.  
E. S. DAVIS  
MINNEAPOLIS, MINN.  
T. O. LANGAGER  
SAN FRANCISCO, CAL.  
PAUL GARDINER

DES MOINES, IOWA  
1301 West 8th Street  
CLEVELAND, OHIO  
621 Penton Building

SEATTLE, WASH.  
R. E. VOORHEES  
TORONTO, CANADA  
A. H. FRASER & COMPANY  
WINNIPEG, CANADA  
JOS. ST. MARS, LTD.

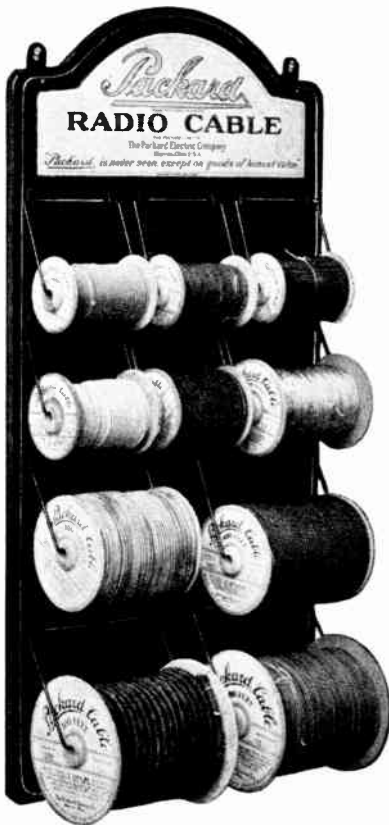


## Packard Radio Cable

Packard radio cable is especially designed for radio service.

The same high quality and efficient service is built into Packard radio cables as in Packard automotive cable—the standard of the automotive industry for the past quarter century.

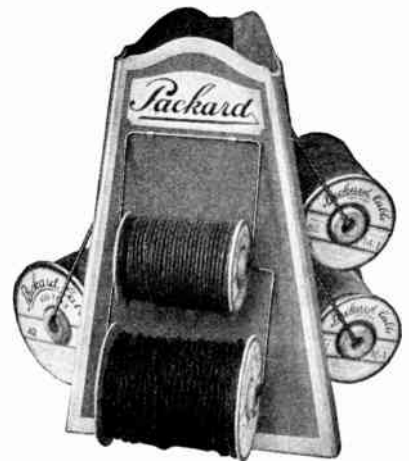
All bulk cable is furnished on spools, and with either 5- or 10-spool assortments there is included one of the handsome merchandisers illustrated on this page.



### The De Luxe Assortment

Comes complete—board and cable in one strong box. Easy to set up and use. Requires wall space only 36 by 18 in. Shipping weight, approximately 70 lb.

List Price .....\$73.25



### The Standard Assortment

Comes complete—display and spools in strong carton, easy to set up and use. Requires small counter space. It is a real display, attractive and useful.

5 R Assortment, List Price.....\$27.50  
5 S Assortment, List Price..... 39.75



### Multiple Conductor Battery Cables

Consist of required number of B and C battery leads, and two "A" leads all twisted together for flexibility and appearance and covered over all with attractive "Radio Brown" braid. Individual conductors have different colored braids.

The above three items are supplied on either 100 or 500-ft. spools, also on 50-ft. spools at slight additional cost.

Trade No.	No. of Wires	List Price per foot
986	5	\$.15
987	6	.17
988	7	.20



### Plain Rubber Covered Cable

For internal set wiring, for connecting up B batteries, and for connecting lead-in and inside aerial wiring. Trade numbers 926, 914, 924 and 934 are supplied either in 100 or 500-ft. spools, also in 50-ft. spools at slight additional cost.

Trade No.	Gage No.	Color	Outside diam., in.	List Price per foot
918	18	Black	.112	\$.02
928	18	Red	.112	.02
916	16	Black	.100	.02
926	16	Black	.155	.02½
914	14	Black	.125	.02½
924	14	Black	.200	.04½
934	14	Black	.140	.04



### Rubber Covered Braided Cables

Supplied in colors as indicated below, which make them especially suitable for A and B battery circuit wiring. The different colors reduce chances of wrong connections being made.

Trade No.	Gage No.	Color	List Price per foot
948	18	Black only	\$.02½
950	16	{ White, black, red.	.02½
952	14	{ green, brown	.03½



### Flexible Battery Connectors

These connectors are furnished in three standard lengths.

Each end is equipped with a spade terminal. They are very handy and useful to any radio set owner.

Trade No.	Length	List Price each
804	4 in.	\$.09
808	8 in.	.09½
812	12 in.	.10



### Aerial Cable

Made full size and carefully stranded. Strong, yet soft and flexible. Supplied on spools of either 100, 500 or 1,000 ft.

Trade No. 922. List Price per foot, \$.01½



### Loud Speaker Cord For Extension of Speaker Circuits

Consists of two conductors under one braid of attractive "Radio Brown." Small and very flexible.

Trade No. 913. List Price per foot, \$.03½

**Packard Radio Wiring Harness**

Made up of 5 wires (3 light-gauge for B battery and 2 heavy-gauge for A battery connections), each wire of a different color, with an attractive overall braid of "Radio Brown" which matches well with the interior furnishings of any home.



**Packard Radio Wiring Harness**

Packed in Individual Cartons, making neat and attractive Shelf Package.



**Trade Nos. 901 and 902**

Especially designed for use with Atwater-Kent sets. Four spade terminals on set end (A plus and B minus leads under one terminal), two terminals on battery end of heavy gage wires for A battery connections. Remaining wires skinned and dipped in solder.

	List Price
	each
Trade No. 901. Six feet long.....	\$1.00
Trade No. 902. Ten feet long.....	1.50



**Trade Nos. 905 and 906**

Five spade terminals on set end. Large ring terminals for A battery and spade terminals for B battery connections.

	List Price
	each
Trade No. 905. Five feet long.....	\$ .85
Trade No. 906. Eight feet long.....	1.25



**Trade Nos. 903 and 904**

Five spade terminals on set end. Two strong Muefner clips on battery end of heavy gage wires for connection to wet A battery posts. Remaining wires provided with spade terminals.

	List Price
	each
Trade No. 903. Five feet long.....	\$1.25
Trade No. 904. Eight feet long.....	1.50



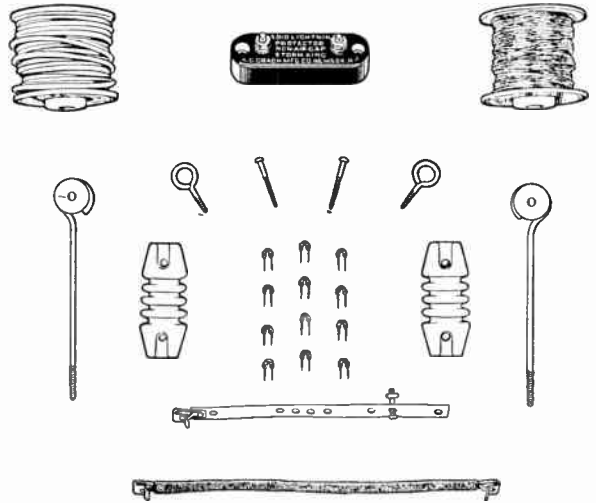
**Trade Nos. 907, 908 and 909**

No terminals on either end. All wires stripped of insulation and dipped in solder.

	List Price
	each
Trade No. 907. Five feet long.....	\$ .75
Trade No. 908. Eight feet long.....	1.00
Trade No. 909. Four feet long.....	.65

**Packard Aerial—Ground Kits**

All items in these kits have been carefully selected with a view of giving the purchaser the utmost value.

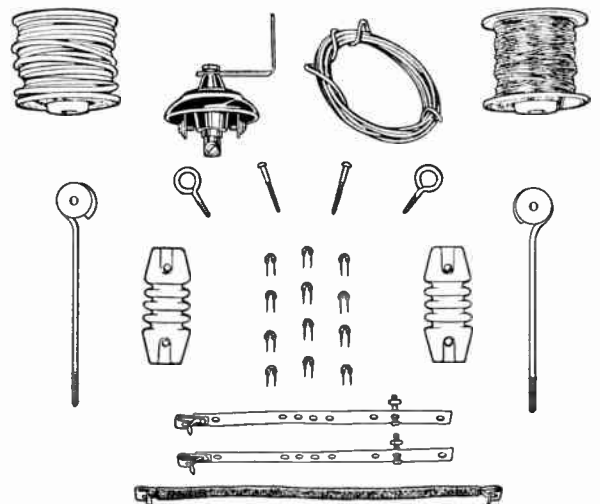


**Type A Aerial-Ground Kit**

Contents of kit includes the following items:

- One 100-ft. spool Packard aerial wire.
  - One 50-ft. spool Packard lead-in and ground wire.
  - 2 large porcelain insulators.
  - 1 Brach "Storm King" lightning arrestor.
  - 2 Improved stand-off insulators.
  - 1 Window lead-in strap (bronze).
  - 1 Ground clamp (bronze).
  - 2 Screw eyes.
  - 12 Insulated staples.
- Kit complete with full instructions for use.  
Packed in attractive carton.

List Price, each kit .....\$4.50



**Type B Aerial-Ground Kit**

Designed for those who want the very best quality. The outfit illustrated above contains:

- One 100-ft. spool Packard aerial wire.
  - One 50-ft. spool Packard lead-in and ground wire.
  - One 10-ft. coil of hook-up wire.
  - 1 Brach "Storm Guard" lightning arrestor.
  - 2 Large porcelain insulators.
  - 2 Improved stand-off insulators.
  - 1 Window lead-in strap (bronze).
  - 2 Ground clamps (bronze).
  - 2 Screw eyes.
  - 12 Insulated staples.
- Kit complete with full instructions for use.  
Packed in attractive carton.

List Price, each kit .....\$5.50

**T**HE Publishers have made every effort to properly classify in the following section all products used in the construction, operation and maintenance of Radio Apparatus. Manufacturers are earnestly requested to notify us at once of any new products they may put out so that they may be properly listed in this section.



# COMPLETE CLASSIFIED DIRECTORY OF MANUFACTURERS

*All products are indexed under the noun.  
Names of firms using catalog space appear in bold-face type  
with reference to pages where detailed data  
on their products will be found.*

## A BATTERIES—

see Batteries, A Dry  
also Batteries, A Storage

## A BATTERY CHARGERS—

see Rectifiers, Battery Charging Bulb  
also Rectifiers, Battery Charging Electrolytic  
also Rectifiers, Battery Charging Vibrator

## A BATTERY POTENTIOMETERS—

see Potentiometers, Battery

## ABRASIVE PAPER—

see Paper, Emery and Sand

## ACID, Battery—

see Acid, Sulphuric

## ACID RESISTING PAINT—

see Paint, Acid Resisting

## ACID, Soldering—

see Flux, Soldering

## ACID, Sulphuric

*For use as Electrolyte for Storage Batteries*

Eagle-Picher Lead Co., 208 S. La Salle St., Chicago, Ill.  
Globe Chemical Co., Murray Rd. & Big Four R.R., Cincinnati, Ohio  
Grasselli Chemical Co., Guardian Bldg., Cleveland, Ohio  
Kalbfleisch Corp., 200 Fifth Ave., New York, N. Y.  
Matthiessen & Hegeler Zinc Co., La Salle, Ill.  
Merrimac Chemical Co., 148 State St., Boston, Mass.  
Tennessee Copper & Chemicals Corp., 61 Broadway, New York, N. Y.

## ACID SYRINGES—

see Syringes, Bulb

## ADAPTERS, Antenna—

see Plugs, Antenna

## ADAPTERS, Direct Socket

*For converting Sockets to permit use with other tube types where a change in Rheostat Resistance may be necessary; for Resistance Socket Adapters—see Adapters, Resistance Socket*

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"  
Cataloged on pages..... 28 and 29  
Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.

Clearstone Radio Electrical Supply Co., 70 Audubon Ave., Providence, R. I.  
Daniel Specialty Co., 5232 Melrose Ave., Los Angeles, Cal.

De Jur Products Co., 199 Lafayette St., New York, N. Y.

Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
Cataloged on page.....86

General Radio Co., 30 State St., Cambridge, Mass.

Gillfillan Bros., 1815 W. 16th St., Los Angeles, Cal.

Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.

Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.

Martin-Copeland Co., 101, Sabin St., Providence, R. I. "Mar-Co"

Mar-Co—see Martin-Copeland Co.

Na-ald—see Alden Mfg. Co.

Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Parker-Aeolus Corp., 161 Grand St., New York, N. Y.

Radio Corp. of America, 233 Broadway, New York, N. Y.

Waterbury Button Co., Waterbury, Conn.

## ADAPTERS, Mounting

*For changing instruments made for three hole mounting to one hole mounting*

Able Tool & Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"

Atec—see Able Tool & Engineering Co.

Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

## ADAPTERS, Phonograph Radio

*For adapting Phonograph to permit use of Amplifier or Loudspeaker or both; for Adapters for attaching to Phonograph to permit use of Horn as Loudspeaker, see Adapters, Radio Phonograph*

Bristol Co., Waterbury, Conn.

Grimes, Inc., David, 151 Bay St., Jersey City, N. J. "Gradeon"  
Cataloged on page.....95

Gradeon—see Grimes, Inc.

Hanscom Radio Devices, Woonsocket, R. I. "Superunit"  
Cataloged on page.....68

Superunit—see Hanscom Radio Devices

## ADAPTERS, Power Tube Socket

*Adapters with external leads for converting Sockets, to permit use of Power Tubes, without disturbing Circuit Wiring*

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"

Cataloged on pages.....28 and 29

Na-ald—see Alden Mfg. Co.

## ADAPTERS, Radio Phonograph

*Special Tone Arms, Tone Arm Clamps, Sleeves, etc., to permit use of Phonograph horn as a Loud Speaker by attaching Head Phones or Loud Speaker Units; for Adapting Phonograph to permit use of Amplifier or Loud Speaker—see Adapters, Phonograph Radio*

Alex Mfg. Co., 1259 Main St., Seattle, Wash.

Ajax—see Philmore Mfg. Co.

Baldwin, Inc., Nathaniel, 3474 S. 23d East St., Salt Lake City, Utah.

Baxter Mfg. Co., Albion St. & Queens Blvd., Elmhurst, L. I., N. Y.

Bee-Zee Products Co., 511 Chapel St., New Haven, Conn.

Bemco Mfg. Co., 243 W. 55th St., New York, N. Y. "Tripletone"

Berwick—see Triangle Electro Trading Co.

Bunnell & Co., J. H., 32 Park Pl., New York, N. Y.

Central Radio Co., 193 Centre St., New York, N. Y. "Radiograph"

Columbia Phonograph Co., 1819 Broadway, New York, N. Y.

Cross Gear & Engine Co., 3250 Bellevue Ave., Detroit, Mich.

Del Marmol Radio-Phonograph Co., 3522 Frankford Ave., Philadelphia, Pa.

Dulce-Tone—see General Industries Co.

Duplex—see McMasters, W. B.

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago, Ill. "Quali-Tone"

Ekko Co., 111 W. Monroe St., Chicago, Ill.

Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Stramey"

General Industries Co., 304 Taylor St., Elyria, Ohio. "Dulce-Tone"

### ADAPTERS, Radio Phonograph Continued

Globe Phone Mfg. Co., Reading, Mass.  
Herald Electric Co., 29 East End Ave.,  
New York, N. Y.  
Illinois Bending & Mfg. Co., 170 N. Hal-  
sted St., Chicago, Ill.  
Jerco—see Rudell Co.  
Liberty Metal Products Corp., Berea,  
Ohio.  
McMasters, W. B., Wheeling, W. Va.  
"Duplex"  
Magnavox Co., 2725 E. 14th St., Oakland,  
Cal.  
Manhattan Electrical Supply Co., 17 Park  
Pl., New York, N. Y. "Red Seal"  
Manufacturers Phonograph Co., 95 Mad-  
ison Ave., New York, N. Y. "Strand  
Timmons"  
May Rubber Co., 826 Arch St., Philadel-  
phia, Pa.  
Mohawk Corp. of Illinois, 2222 Diversey  
Parkway, Chicago, Ill.  
Narragansett Radio Corp., 133 Dyer St.,  
Providence, R. I.  
Peerless—see United Radio Corp.  
Quali-Tone—see Duro Metal Products Co.  
Radio-Fone-O-Graf Co., 27 S. Broad St.,  
Elizabeth, N. J.  
Radiograph—see Central Radio Co.  
Radiotive Corp., 5317 21st Ave., Brook-  
lyn, N. Y. "Silken Voice"  
Red Seal—see Manhattan Electrical Sup-  
ply Co.  
Remo Corp., Meriden, Conn.  
Rola Co., 4250 Hollis St., Oakland, Cal.  
Royal Electrical Laboratories, 109 Tiche-  
nor St., Newark, N. J. "Royalphone"  
Royalphone—see Royal Electrical Labora-  
tories.  
Rudell Co., Joseph E., 556 W. 52d St.,  
New York, N. Y. "Jerco"  
Selectron Corp., 565 Fifth Ave., New York,  
N. Y.  
Silken Voice—see Radiotive Corp.  
Stramcy—see Essex Mfg. Co.  
Strand-Timmons—see Manufacturers  
Phonograph Co.  
Stuckeman Bros., 204 Warrington Ave.,  
Pittsburgh, Pa.  
Teleradio Engineering Corp., 490 Broome  
St., New York, N. Y.  
Tower Mfg. Corp., 98 Brookline Ave., Bos-  
ton, Mass.  
Triangle Electro Trading Co., 4077 Park  
Ave., New York, N. Y. "Berwick"  
Triangle Phono Parts Co., 722 Atlantic  
Ave., Brooklyn, N. Y.  
Tripletone—see Bemco Mfg. Co.  
United Radio Corp., 115 Caledonia St.,  
Rochester, N. Y. "Peerless"  
Waterbury Button Co., Waterbury, Conn.  
Western Electric Co., 100 E. 42d St., New  
York, N. Y.  
Westphal Mfg. Laboratory, 80 Jackson  
Blvd., Chicago, Ill.  
Zisch Engineering Corp., 39 Ave. L, New-  
ark, N. J. "Zeco"  
Zeco—see Zisch Engineering Corp.

### ADAPTERS, Resistance Socket

*For converting 5-volt Sockets to use 3-  
volt Tubes without changing Rheostat  
Resistances; for Direct Socket Adapters  
—see Adapters, Direct Socket*  
Eisemann Magneto Corp., 165 Broadway,  
New York, N. Y.

### ADAPTERS, Tube—

see Adapters, Direct Socket

### ADJUSTABLE CONDENSERS—

see Condensers, Neutralizing

### ADJUSTABLE GRID-LEAKS—

see Grid-Leaks, Variable

### ADJUSTABLE GROUND CLAMPS—

see Clamps, Ground

### ADJUSTABLE SPARK GAPS—

see Gaps, Adjustable Spark

### ADJUSTERS, Dial—

see Attachments, Vernier

### AERIAL FITTINGS—

see Fittings, Iron Antenna Pole

### AERIAL INSULATORS—

see Insulators, Composition  
also Insulators, Glass  
also Insulators, Porcelain

### AERIAL MASTS—

see Poles, Steel  
also Towers, Steel

### AERIAL POLES—

see Poles, Steel

### AERIAL PROTECTORS—

see Arresters, Lightning Indoor  
also Arresters, Lightning Outdoor

### AERIAL SETS—

see Aerials, Indoor  
also Wire

### AERIAL TOWERS—

see Towers, Steel

### AERIAL WIRE—

see Wire, Braided Copper  
also Wire, Copper Clad Steel  
also Wire, Enameled Copper  
also Wire, Flat or Strip  
also Wire, Single Strand Copper  
also Wire, Stranded Copper

### AERIALS, Formed

*Permanently formed Out Door Aerials  
in shape of Metal Balls, Cages, Fans,  
Fixed Transposed Units, etc.; for  
Underground Aerials—see Aerials,  
Underground*

Freidag Mfg. Co., 1131 S. Adams Ave.,  
Freeport, Ill.

Hawkeye Radio Co., (Division of Hawk-  
eye Lighting Co.), Cedar Rapids, Iowa  
Haworth Mfg. Co., 5119 Plankington  
Bldg., Milwaukee, Wis.

Kane Antennae Co., 3146 W. Van Buren  
St., Chicago, Ill.

Pressed Metal Mfg. Co., Waukesha, Wis.  
Radio-Kraft Mfg. Co., F. W. Braun Bldg.,  
Los Angeles, Cal.

Stanley Engineering & Sales Co., 70 Mun-  
roe St., Lynn, Mass.

Super-Ball Antenna Co., Green Bay, Wis.

Wesco—see West Coast Radio Co.

West Coast Radio Co., 2407 W. Slauson  
Ave., Los Angeles, Cal. "Wesco"

### AERIALS, Indoor

*Special woven Tapes, Ribbons, Coiled  
Springs, etc., for fixed Indoor Antenna;  
for Loops or other Portable Indoor  
Aerials—see Aerials, Portable*

Ajax—see Philmore Mfg. Co.

Berlin & Trosky, 400 Lafayette St., New  
York, N. Y. "D. X."

Cornish Wire Co., 30 Church St., New  
York, N. Y. "Echo"  
Cataloged on page.....127

Crescent Braid Inc., 289 Thurbers Ave.,  
Providence, R. I. "Lektro"  
D. X.—see Berlin & Trosky.

Eagle Electric Mfg. Co., 59 Hall St.,  
Brooklyn, N. Y.

Echo—see Cornish Wire Co.

Effarsee—see Fishwick Radio Co.

Esby Co., 45 Arch St., Boston, Mass.  
"Esby-A-Tena"

Esby-A-Tena—see Esby Co.

Fisher Spring Co., Chas., 240 Kent Ave.,  
Brooklyn, N. Y.

Fishwick Radio Co., 133 W. Central Park-  
way, Cincinnati, Ohio. "Effarsee"

Hope Webbing Co., Providence, R. I.

Hy-Sil Mfg. Co., Revere, Mass.

Inter-State Signal Co., 202 N. Grand Ave.,  
Columbus, Ohio

Key to the Air—see Stafford Radio Co.

Lees Textile Co., 207 Walker St., Lowell,  
Mass. "Puretone"

Lektro—see Crescent Braid Inc.

Lenz—see Permanco Mfg. Corp.

Mack Co., 1940 W. Delancey St., Phila-  
delphia, Pa.

Mar-Co.—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Provi-  
dence, R. I. "Mar-Co."

Peck Spring Co., Plainville, Conn.  
Cataloged on page.....113

Perfection Radio Mfg. Co., 24th & Race  
Sts., Philadelphia, Pa.

Permanco Mfg. Corp., 814 Prospect Ave.,  
Brooklyn, N. Y. "Premo" "Lenz"

Premo—see Permanco Mfg. Corp.

Puretone—see Lees Textile Co.

Raco—see Ross Wire Co.

Radiant Vimolizer Co., 9428 S. Budlong  
Ave., Los Angeles, Cal.

Rapid Spring Co., Pittsburgh, Pa.

Ross Wire Co., 69 Bath St., Providence,  
R. I. "Raco"

Sheffield Trimming & Stamping Corp., 211  
Centre St., New York, N. Y. "Stasco"

Silcrimp—see Valley Narrow Fabric Co.

Stafford Radio Co., 29 Newberne St., Som-  
erville, Mass. "Key to the Air"

Stasco—see Sheffield Trimming & Stamp-  
ing Corp.

Valley Narrow Fabric Co., Central Falls,  
R. I. "Silcrimp"

Whetzal, Walter M. H., 37 Plum St.,  
Westerville, Ohio

### AERIALS, Loop—

see Aerials, Portable

### AERIALS, Outdoor—

see Insulators  
also Wire

### AERIALS, Portable

*Loops, Coils, Curtains and other forms  
of Portable Indoor Antenna; for fixed  
Indoor Aerials (Special woven Tapes,  
Ribbons, Coiled Springs, etc.)—see  
Aerials, Indoor; for Antenna Plugs for  
use with House Lighting Circuits—  
see Plugs, Antenna*

Aulco Radio Laboratories, 1912 S.  
Wabash Ave., Chicago, Ill.  
Cataloged on page.....30

Aerial & Radio Mfg. Co., 562 Golden Gate  
Ave., San Francisco, Cal.

Ambu—see American Bureau of Engi-  
neering.

American Bureau of Engineering, 2632  
Prairie Ave., Chicago, Ill. "Ambu"

Amplifex Radio Corp., 39 Massachusetts  
Ave., Arlington, Mass.

Antennaphone Co., 90 West St., New  
York, N. Y.

Baby Console—see Mathlesen-Sandberg  
Co.

Banker Windshied Co., 5722 Ellsworth Ave., Pittsburgh, Pa.  
 Berling Magneto Co., 42 Laird St., Buffalo, N. Y.  
 Berstan Radio Products Co., 329 Dwight St., Springfield, Mass. "Fone-Tenna"  
 Bodine Electric Co., 2254 W. Ohio St., Chicago, Ill.  
 Calvert Specialty Co., 141 N. 11th St., Philadelphia, Pa.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"  
 Celco—see Central Engineering Laboratories.  
 Central Engineering Laboratories, 3345 N. Lincoln St., Chicago, Ill. "Celco"  
 Cunningham Singer Radiophone Co., 132 N. Larchmont Blvd., Los Angeles, Cal.  
 Davis Mfg. Co., Richard T., 5252 Broadway, Chicago, Ill. "Vogue"  
 Dunham, D. F., 3941 Cumberland Ave., Los Angeles, Cal.  
 Duo-Spiral—see Radio Units, Inc.  
 Eclipse Radio Laboratories, Rock Island, Ill.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Eria"  
 English-Whitman Products, 120 Broadway, New York, N. Y. "Tun-A-Loop"  
 Erie Radio Co., 23 E. Eighth St., Erie, Pa. "Zig Zag"  
 Eria—see Electrical Research Laboratories.  
 Flat—see Radio Appliance Corp.  
 Fone-Tenna—see Berstan Radio Products Co.  
 Four Way Co., 29 Worthington St., Springfield, Mass.  
 Gordon Radio & Electric Mfg. Co., 1610 Fourth Ave., Seattle, Wash.  
 Hartman Electrical Mfg. Co., Mansfield, Ohio.  
 Hemco—see Richards & Co.  
 Hexloop—see Jordan Cabinet Corp.  
 Imp—see Carter Radio Co.  
 Irving & Casson, 573 Boylston St., Boston, Mass.  
 Jordan Cabinet Corp., 56th St. & First Ave., Brooklyn, N. Y. "Hexloop"  
 La Salle, E. B., 61 S. Washington St., Batavia, Ill. "Spira-Conic"  
 Lincoln Radio Corp., 151 W. 28th St., New York, N. Y. "Ovaloop"  
 Little Tattler—see Marinette Electric Corp.  
 Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y. "Red Seal"  
 Marinette Electric Corp., Marinette, Wis. "Little Tattler"  
 Marion Electrical Mfg. Co., 24 Cliff St., Jersey City, N. J.  
 Master Console—see Mathiesen-Sandberg Co.  
 Mathiesen-Sandberg Co., 5249 Ravenswood Ave., Chicago, Ill. "Baby Console" "Master Console"  
 Cataloged on page.....30  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio  
 Nazeley Co., J., 1824 Park Ave., Weehawken, N. J. "Selecto"  
 Ovaloop—see Lincoln Radio Corp.  
 Paramount Radio Corp., 1482 Broadway, New York, N. Y.  
 Radio Appliance Corp., 4884-90 N. Clark St., Chicago, Ill. "Flat"  
 Radio Corp. of America, 233 Broadway, New York, N. Y.  
 Radio-Fone-O-Graf Co., 27 S. Broad St., Elizabeth, N. J.  
 Radio Receptor Co., 106 Seventh Ave., New York, N. Y.  
 Radio Units, Inc., 1316 S. First Ave., Maywood, Ill. "Duo-Spiral"  
 Red Seal—see Manhattan Electrical Supply Co.  
 Remofone—see Remo Corp.  
 Remo Corp., Meriden, Conn. "Remofone"  
 Richards & Co., George, 557 W. Monroe St., Chicago, Ill. "Hemco"  
 Ritter Radio Corp., 232 Canal St., New York, N. Y.

Schaeffer Mfg. Co., 226 E. 41st St., Portland, Ore.  
 Selecto—See Nageley Co.  
 Selecto—see Thomas Co.  
 Signal Electric Mfg. Co., 1915 Broadway, Menominee, Mich. "Signola"  
 Signola—see Signal Electric Mfg. Co.  
 Silcrimp—see Valley Narrow Fabric Co.  
 Spira-Conic—see La Salle, E. B.  
 Tel-Aerial, 80 Washington St., New York, N. Y.  
 Thomas Co., W. I., 217 N. Desplaines St., Chicago, Ill. "Selecto"  
 Trenton Wood Specialty Co., Stokes Ave. & P. R.R., Trenton, N. J.  
 Tun-A-Loop—see English-Whitman Products.  
 Utt-Williams Electrical Products Co., Santa Ana, Cal.  
 Valley Narrow Fabric Co., Central Falls, R. I. "Silcrimp"  
 Vogue—see Davis Mfg. Co.,  
 Volumax—see Weber Electric Works  
 Weber Electric Works, 4527 Broadway Rd., Cleveland, Ohio. "Volumax"  
 Werner Radio Mfg. Co., P., 204 Ninth St., Brooklyn, N. Y.  
 Whittemore, D. C., Port Washington, N. Y.  
 Zig Zag—see Erie Radio Co.

**AERIALS, Ribbon—**

see Wire, Flat or Strip

**AERIALS, Socket—**

see Plugs, Antenna

**AERIALS, Underground**

*Specially formed Aerials for use underground*

Osborne-Kelsey Co., 1915 Santa Fe Ave., Los Angeles, Cal.

**AIR CONDENSERS—**

see Condensers, Variable  
 also Condensers, Variable Miniature

**ALCOHOL TORCHES—**

see Torches, Alcohol

**ALLOYS, Contact—**

see Silver  
 also Platinum

**ALLOYS, Resistance—**

see Wire, Bare Resistance

**ALUMINUM CASTINGS—**

see Castings, Aluminum

**ALUMINUM DIE CASTINGS—**

see Castings, Die

**ALUMINUM FOIL—**

see Foil, Aluminum

**ALUMINUM, Sheet, Rod and Tube**

Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.

**AMMETERS, Antenna—**

see Ammeters and Voltmeters

**AMMETERS, Radiation—**

see Ammeters and Voltmeters

**AMMETERS AND VOLTMETERS, Panel Type**

*Small Meters for permanent mounting on panels of Receiving and Transmitting Sets; for regular Switchboard Type Meters—See Ammeters and Voltmeters, Switchboard Type; for Pocket Battery Testers—see Ammeters and Voltmeters, Pocket*

Beede Electric Instrument Co., 136 Liberty St., New York, N. Y.  
 Cataloged on page.....31

Burton-Rogers Co., 26 Brighton Ave., Boston, Mass. (Sole Distributors for Hoyt Electrical Instrument Works, Penacook, N. H.)

Cellokay Mfg. Corp., Flatiron Bldg., New York, N. Y. "Cell-O-Meter"

Cell-O-Meter—see Cellokay Mfg. Corp.  
 Dongan Electric Mfg. Co., 2987 Franklin St., Detroit, Mich.

Eldredge Electrical Corp., 3 Post Office Sq., Springfield, Mass. "Midget"

Fore Electrical Mfg. Co., 5255 N. Market St., St. Louis, Mo.

General Electric Co., 1 River Rd., Schenectady, N. Y.

General Radio Co., 30 State St., Cambridge, Mass.

Hoyt Electrical Instrument Works—see Burton-Rogers Co.

Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.

Midget—see Eldredge Electrical Corp.

Nagel Electric Co., W. G., 511 Hamilton St., Toledo, Ohio.  
 Cataloged on page.....32

Pignolet Instrument Co., 76 Greenwich St., New York, N. Y.

Readrite Meter Works, Bluffton, Ohio

Roller-Smith Co., 233 Broadway, New York, N. Y.

Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio.  
 Cataloged on page.....33

Tiffany Mfg. Co., 42 Spring St., Newark, N. J.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.  
 Cataloged on page.....34

Weston Electrical Instrument Corp., 157 Weston Ave., Newark, N. J.  
 Cataloged on page.....31

**AMMETERS AND VOLTMETERS, Pocket**

*Small Meters designed primarily for testing Dry Cell Batteries; for Panel Type Meters—see Ammeters and Voltmeters, Panel Type; for Switchboard Meters—see Ammeters and Voltmeters, Switchboard Type*

Advance—see Eldredge Electrical Corp.

Beede Electric Instrument Co., 136 Liberty St., New York, N. Y.  
 Cataloged on page.....31

Burton-Rogers Co., 26 Brighton Ave., Boston, Mass. (Sole Distributors for Hoyt Electrical Instrument Works, Penacook, N. H.)

Dongan Electric Mfg. Co., 2987 Franklin St., Detroit, Mich.

Eclipse—see Eldredge Electrical Corp.

Eldredge Electrical Corp., 3 Post Office Sq., Springfield, Mass. "Advance" "Eclipse"

Hoyt Electrical Instrument Works—see Burton-Rogers Co.

Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.

Lundquist Tool & Mfg. Co., Worcester, Mass. "Yankee"  
 Cataloged on page.....35

Nagel Electric Co., W. G., 511 Hamilton St., Toledo, Ohio  
 Cataloged on page.....32

Pignolet Instrument Co., 76 Greenwich St., New York, N. Y.



## AMMETERS AND VOLT- METERS, Pocket Continued

Readrite Meter Works, Bluffton, Ohio  
Sterling Mfg. Co., 2831-53 Prospect Ave.,  
Cleveland, Ohio  
Cataloged on page.....33  
Tiffany Mfg. Co., 42 Spring St., Newark,  
N. J.  
Westinghouse Electric & Mfg. Co., East  
Pittsburgh, Pa.  
Weston Electrical Instrument Corp., 157  
Weston Ave., Newark, N. J.  
Cataloged on page.....31  
Yankee—see Lundquist Tool & Mfg. Co.

## AMMETERS AND VOLTMETERS, Switchboard Type

*Standard size Meters for permanent  
mounting on large Control Boards*  
Burton-Rogers Co., 26 Brighton Ave.,  
Boston, Mass. (Sole Distributors for  
Hoyt Electrical Instrument Works, Pen-  
acook, N. H.)  
General Electric Co., 1 River Rd., Sche-  
nectady, N. Y.  
Hoyt Electrical Instrument Works—see  
Burton-Rogers Co.  
Jewell Electrical Instrument Co., 1650  
Walnut St., Chicago, Ill.  
Norton Electrical Instrument Co., Hillard  
St., Manchester, Conn.  
Roller-Smith Co., 233 Broadway, New  
York, N. Y.  
Weston Electrical Instrument Corp., 157  
Weston Ave., Newark, N. J.

## AMPLICITE CRYSTALS— see Crystals

## AMPLIFIER TUBES— see Tubes, Vacuum

## AMPLIFIERS, Audio Frequency

*Completely assembled Units ready for  
connection after Detector in order to  
operate Loud Speaker; for Audio Trans-  
formers—see Transformers, Audio Fre-  
quency; for Audio Frequency Resistors  
—see Resistors, Audio Frequency*  
Alden Mfg. Co., Dept. D-7, Springfield,  
Mass. "Truphonic"  
Cataloged on pages.....28 and 29  
Allen-Bradley Co., 286 Greenfield Ave.,  
Milwaukee, Wis. "Bradley"  
American Specialty Co., 165 Holland Ave.,  
Bridgeport, Conn. "Kelford"  
Auto Indicator Co., 209 Ottawa Ave.,  
N. W., Grand Rapids, Mich.  
Bradley—see Allen-Bradley Co.  
Breco Radio Corp., 687 Courtlandt Ave.,  
New York, N. Y.  
Carco—see Carter Mfg. Co.  
Carter Mfg. Co., 1728 Cort Ave., (E.  
Cleveland), Cleveland, Ohio. "Carco"  
Continental—see Gardiner & Hepburn  
Daven Radio Corp., 158 Summit St., New-  
ark, N. J.  
Deltrickson Radio Co., 121 S. Third St., St.  
Joseph, Mo.  
DeJur Products Co., 199 Lafayette St.,  
New York, N. Y.  
DeWitt-LaFrance Co., Cambridge, Mass.  
Eisemann Magneto Corp., 165 Broadway,  
New York, N. Y.  
Gardiner & Hepburn, Widener Bldg.,  
Philadelphia, Pa. "Continental"  
General Radio Co., 30 State St., Cam-  
bridge, Mass.  
Gordon Radio & Electric Mfg. Co., 1610  
Fourth Ave., Seattle, Wash.  
Hanscom Radio Devices, Woonsocket,  
R. I. "Superunit"  
Heath Radio & Electric Co., 206 First St.,  
Newark, N. J. "Radiant"  
Kelford—see American Specialty Co.

Mountford, C. E., 463 Greenwich St., New  
York, N. Y.  
Muter Co., Leslie F., 76th St. & Green-  
wood Ave., Chicago, Ill.  
Cataloged on page.....124  
Pentz Radio Factory, 207 S. Fifth St.,  
Minneapolis, Minn.  
Radiant—see Heath Radio & Electric Co.  
Radio Corporation of America, 233 Broad-  
way, New York, N. Y.  
Cataloged on pages 100, 101, 102 and 103  
Radiola—see Radio Corp. of America.  
Sonatron Tube Co., 108 W. Lake St., Chi-  
cago, Ill.  
Superunit—see Hanscom Radio Devices  
Trelcott Co., 2118 Hale Ave., Louisville,  
Ky.  
Truphonic—see Alden Mfg. Co.  
Welty & Co., Wm. A., 36 S. State St., Chi-  
cago, Ill.

## AMPLIFIERS, Combined Recti- fiers and Power— see Amplifiers, Power

## AMPLIFIERS, Power

*Completely assembled ready for con-  
nection, using separate Power Supply,  
with a Power Tube as Amplifier and a  
Bulb for Rectifier, for use where great  
volume is desired in Halls, Churches,  
etc., for public assemblies; for Audio  
Frequency Amplifiers—see Amplifiers,  
Audio Frequency*  
Amplipower—see Martin Co.  
Farrand Mfg. Co., Thompson Ave. at  
Court St., Long Island City, N. Y.  
Cataloged on page.....109  
Magnavox Co., 2725 E. 14th St., Oakland,  
Cal.  
Martin Co., Glenn L., Radio Div., 16800  
St. Clair Ave., Cleveland, Ohio. "Ampli-  
power"  
Pacent Radio Corp., 91 Seventh Ave., New  
York, N. Y. "Powerformer"  
Powerformer—see Pacent Radio Corp.  
Powerizer—see Radio Receptor Co.  
Precision Coil Co., 209 Centre St., New  
York, N. Y.  
Radio Corp. of America, 233 Broadway,  
New York, N. Y. "Uni-Rectron"  
Cataloged on pages 100, 101, 102 and 103  
Radio Receptor Co., 106 Seventh Ave.,  
New York, N. Y. "Powerizer"  
San-Tee Co., 443 S. San Pedro St., Los  
Angeles, Cal.  
Stelmetz Wireless Mfg. Co., 5968 Baum  
Blvd., Pittsburgh, Pa.  
Timmins Radio Products Corp., 339 E.  
Tulpehocken St., (Germantown) Phila-  
delphia, Pa.  
Uni-Rectron—see Radio Corporation of  
America  
Western Electric Co., W. 22nd St. and  
Cicero Ave., Chicago, Ill.

## AMPLIFIERS, Radio Frequency

*Completely assembled Units ready for  
connection ahead of Detector in order to  
increase receiving range; for Radio  
Frequency Transformers—see Trans-  
formers, Radio Frequency; for Tuned  
Radio Frequency Transformers—see  
Transformers, Tuned Radio Frequency.*  
American Specialty Co., 165 Holland  
Ave., Bridgeport, Conn. "Kelford"  
Ballantine—see Boonton Rubber Mfg. Co.  
Boonton Rubber Mfg. Co., 223 Fanny Rd.,  
Boonton, N. J. "Ballantine"  
Daven Radio Corp., 158 Summit St.,  
Newark, N. J.  
Ed-U-Cator—see Mersman & Co.  
Elkay—see Langbein-Kaufman Radio Co.  
General Instrument Corp., 479 Broadway,  
New York, N. Y.  
Gordon Radio & Electric Mfg. Co., 1610  
Fourth Ave., Seattle, Wash.  
Gray & Danielson Mfg. Co., 250 First St.,  
San Francisco, Cal. "Infradyne"  
Infradyne—see Gray & Danielson Mfg.  
Co.

Kelford—see American Specialty Co.  
Langbein-Kaufman Radio Co., 511 Chapel  
St., New Haven, Conn. "Elkay"  
Mersman & Co., Ottawa, Ohio. "Ed-U-  
Cator"  
Nola Radio Co., 327 St. Charles St., New  
Orleans, La.  
Penetrola—see Walbert Mfg. Co.  
Radio Engineering Laboratories, 27  
Thames St., New York, N. Y. "REL"  
REL—see Radio Engineering Laboratories  
Twitchell Co., S. A., 1925 Western Ave.,  
Minneapolis, Minn.  
United Metal Stamping & Radio Co., 411  
E. Pearl St., Cincinnati, Ohio.  
Walbert Mfg. Co., 925 Brightwood Ave.,  
Chicago, Ill. "Penetrola"  
Welty & Co., Wm. A., 36 S. State St.,  
Chicago, Ill.

## AMPLIFIERS, Sound—

see Horns, Composition  
also Speakers, Loud  
also Units, Loud Speaker

## AMPLIFYING HORNS—

see Horns, Composition  
also Horns, Metal  
also Horns, Wood

## AMPLIFYING TUBES—

see Tubes, Vacuum

## ANCHORS, Guy

*Special Ground Anchors for taking  
strain of Guy Wires*  
Bierce—see Specialty Device Co.  
Everstick Anchor Co., Second & Madison  
Sts., St. Louis, Mo.  
Faultless Anchor & Mfg. Co., Centerburg,  
Ohio.  
Hubbard & Co., 62nd & A. V. R.R. Pitts-  
burgh, Pa. "Steelwing"  
Lanz Bolt Co., M., 2907 E. Carson St.,  
Pittsburgh, Pa.  
Specialty Device Co., 106 W. Third St.,  
Cincinnati, Ohio. "Bierce"  
Steelwing—see Hubbard & Co.  
Wej-Lock Mfg. Co., Winterset, Iowa

## ANGLE BRACKETS, Brass—

see Brackets, Brass Angle

## ANTENNA AMMETERS—

see Ammeters and Voltmeters, Panel  
Type

## ANTENNA, Copper—

see Wire, Braided Copper  
also Wire, Copper Clad Steel  
also Wire, Enameled Copper  
also Wire, Flat or Strip Copper  
also Wire, Single Strand Copper  
also Wire, Stranded Copper

## ANTENNA INSULATOR BRACKETS—

see Brackets, Antenna Insulator

## ANTENNA INSULATORS—

see Insulators, Composition  
also Insulators, Porcelain  
also Insulators, Lave

## ANTENNA LEADS-IN—

see Leads-In, Insulated

**ANTENNA MASTS—**

see Poles, Steel  
also Towers, Steel

**ANTENNA PLUGS—**

see Plugs, Antenna

**ANTENNA POLE FITTINGS—**

see Fittings, Iron Antenna Pole

**ANTENNA POLES—**

see Poles, Steel

**ANTENNA SWITCHES—**

see Switches, Antenna Throwover

**ANTENNA TENSION SPRINGS—**

see Springs, Antenna Tension

**ANTENNA TOWERS—**

see Towers, Steel

**ANTENNA WIRE—**

see Wire, Braided Copper  
also Wire, Copper Clad Steel  
also Wire, Enameled Copper  
also Wire, Flat or Strip Copper  
also Wire, Single Strand Copper  
also Wire, Stranded Copper

**ANTENNA WIRE, Gold Plated—**

see Wire, Gold Plated Antenna

**ANTENNAS, Indoor—**

see Aerials, Indoor

**ANTENNAS, Loop—**

see Aerials, Portable

**ANTENNAS, Outdoor—**

see Wire

**ANTENNAS, Phantom—**

see Resistors, Phantom Antenna

**ANTI-CAPACITY SWITCHES—**

see Switches, Cam

**ARMS, Phonograph Tone—**

see Adapters, Radio Phonograph

**ARRESTERS, Indoor Lightning**

*For installation in building interior for protecting Radio Apparatus from possible Lightning Damage; for Outdoor Lightning Arresters—see Arresters, Outdoor Lightning. See also Switches, Lightning*

American Electric Co., 6401 S. State St., Chicago, Ill. "Burns"  
Anchor—see Radio Receptor Co.  
Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
Branston, Chas. A., 815 Main St., Buffalo, N. Y.  
Burns—see American Electric Co.  
DeJur Products Co., 197 Lafayette St., New York, N. Y.  
Electrad, Inc., 428 Broadway, New York, N. Y.

Electric Service Supplies Co., 17th & Cambria Sts., Philadelphia, Pa. "Keystone"  
Fleron & Son, M. M., 113 N. Broad St., Trenton, N. J. "Home Guard"  
Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
Guardian—see Muter Co.  
Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
Home Guard—see Fleron & Son  
Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.  
K-E—see Kirkman Engineering Corp.  
Keystone—see Electric Service Supplies Co.  
Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"  
Little Giant—see Gray Products, Inc.  
Micamold Radio Corp., Brooklyn, N. Y.  
Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill. "Guardian"  
Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y.  
Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Anchor"  
Sensory—see Heinemann Electric Co.  
Shaw, Henry M., 150 Coit St., Newark, N. J.  
Shinn Mfg. Co., W. C., 2024 N. Racine Ave., Chicago, Ill.  
Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.  
Swan-Haverstick, Inc., 143 E. State St., Trenton, N. J.  
Van Horne Co., Franklin, Ohio

**ARRESTERS, Outdoor Lightning**

*For installation on building exterior for protecting Radio Apparatus from possible lightning damage; for Grounding Lightning Switches—see Switches, Lightning*

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
Anchor—see Radio Receptor Co.  
Antenna Insulator Co., 15 Bagley St., Pawtucket, R. I. "Dry Gap"  
Barkeley Electric Mfg. Co., Middletown, Ohio  
Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J. "Storm King" "Storm Guard"  
Branston, Chas. A., 815 Main St., Buffalo, N. Y.  
Circle F Mfg. Co., 720 Monmouth St., Trenton, N. J. "Little Joe"  
De Jur Products Co., 199 Lafayette St., New York, N. Y.  
Dry Gap—see Antenna Insulator Co.  
Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.  
Electric Service Supplies Co., 17th & Cambria Sts., Philadelphia, Pa. "Keystone"  
Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Sentinel"  
Fleron & Son, M. M., 113 N. Broad St., Trenton, N. J. "Home Guard"  
Flower, D. B., 1217 Spring Garden St., Philadelphia, Pa.  
Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
Guardian—see Muter Co.  
Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
Home Guard—see Fleron & Son  
Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.  
K-A-K-A Radio Co., Bellevue, Pa.  
K-E—see Kirkman Engineering Corp.  
Keystone—see Electric Service Supplies Co.  
Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"

Little Joe—see Circle F. Mfg. Co.  
Micamold Radio Corp., Brooklyn, N. Y.  
Muter Co., Leslie F., 76th St., & Greenwood Ave., Chicago, Ill. "Guardian"  
National Electric Specialty Co., 314 St. Clair St., Toledo, Ohio. "Vac-M"  
Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
Radio Receptor Co., 59 Bank St., New York, N. Y. "Anchor"  
Sensory—see Heinemann Electric Co.  
Sentinel—see Essex Mfg. Co.  
Shinn Mfg. Co., W. C., 2024 N. Racine Ave., Chicago, Ill.  
Simplex Radio Co., Rector & Main Sts., Philadelphia, Pa.  
Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.  
Storm Guard—see Brach Mfg. Co.  
Storm King—see Brach Mfg. Co.  
Swan—Haverstick, Inc., 143 E. State St., Trenton, N. J.  
Trenle Porcelain Co., East Liverpool, Ohio  
Vac-M—see National Electric Specialty Co.  
Van Horne Co., Franklin, Ohio  
Wirt Co., 5221 Greene St., Philadelphia, Pa.

**ASBESTOS, Board—**

see Asbestos, Board and Tube

**ASBESTOS, Board and Tube**

Ambesco—see American Asbestos Co.  
Ambler—see Keasbey & Mattison Co.  
American Asbestos Co., Norristown, Pa. "Ambesco"  
American Insulation Co., Roberts Ave. & Stokley St., Philadelphia, Pa. "Eternit"  
Asbestos, Shingle, Slate & Sheathing Co., Ambler, Pa.  
Eternit—see American Insulation Co.  
J-M—see Johns-Manville, Inc.  
Johns-Manville, Inc., 296 Madison Ave., New York, N. Y. "J-M"  
Keasbey & Mattison Co., Ambler, Pa. "Ambler"  
Sixcel—see Standard Asbestos Mfg. Co.  
Standard Asbestos Co., 69 Beekman St., New York, N. Y.  
Standard Asbestos Mfg. Co., 816 W. Lake St., Chicago, Ill. "Sixcel" "Stanocel"  
Stanocel—see Standard Asbestos Mfg. Co.

**ASBESTOS, Sheet and Tube—**

see Asbestos, Board and Tube

**ASBESTOS TUBE—**

see Asbestos, Board and Tube

**ASSEMBLIES, Battery Wiring—**

see Cables, Multiple Battery

**ATTACHMENTS, Phonograph—**

see Adapters, Radio Phonograph  
also Units, Loud Speaker

**ATTACHMENTS, Vernier**

*Small attachments for securing Vernier Action with plain Dials; for Vernier Dials—see Dials, Vernier*  
Ajax—see Philmore Mfg. Co.  
Alden Mfg. Co., Springfield, Mass. "Nald"  
Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.  
Elloc Radio Corp., 88 E. Kinney St., Newark, N. J.

## ATTACHMENTS, Vernier Continued

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
H & H—see Hart & Hegeman, Mfg. Co.  
Imperial Electric Mfg. Co., 58 Columbia St., Newark, N. J.  
Na-ald—see Alden Manufacturing Co.  
Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
Radio Specialty Co., 98 Park Pl., New York, N. Y. "Rasco"  
Radio Units, Inc., 1316 First Ave., Maywood, Ill.  
Rasco—see Radio Specialty Co.  
Rit-One—see Radio Sales Co.  
Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.  
Union Radio Corp., 124 Sussex Ave., Newark, N. J.  
Waterbury Button Co., Waterbury, Conn.

## AUDIO AMPLIFIERS— see Amplifiers, Audio

## AUDIO FREQUENCY AMPLIFIERS— see Amplifiers, Audio

## AUDIO FREQUENCY RESISTORS— see Resistors, Audio Frequency

## AUDIO FREQUENCY TRANSFORMERS— see Transformers, Audio

## AUDIO OSCILLATORS— see Oscillators, Audia

## AUGER BITS— see Bits, Auger

## AUTO TRANSFORMERS— see Transformers, Auto

## AUTOMATIC CLOCK SWITCHES— see Switches, Clock Controlled

## AUTOMATIC CODE TRANSMITTERS— see Transmitters, Automatic Code

## AUTOMATIC SCREW MACHINE PRODUCTS— see Screw Machine Products, Automatic

## AUTOMATIC TIME SWITCHES— see Switches, Clock Controlled

## B BATTERIES— see Batteries, B Dry also Batteries, B Storage

## B BATTERY CHARGERS— see Motor-Generators, Battery Charging also Rectifiers, Battery Charging Bulb

also Rectifiers, Battery Charging Electrolytic  
also Rectifiers, Battery Charging Vibrator

## B BATTERY ELIMINATOR KITS—

see Rectifiers, Knockdown Plate

## B BATTERY ELIMINATORS—

see Rectifiers, Plate Current Supply  
also Rectifiers, Filament and Plate Current supply

## B BATTERY TEST TUBES— see Tubes, Glass Test

## BABY KNIFE SWITCHES— see Switches, Baby Knife

## BANDS, Head Metal Framework for holding Head Set Receivers

Autoyre Co., Main St., Oakville, Conn.  
Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.

## BARE BUS-BAR WIRE— see Wire, Bare Bus-Bar

## BARE RESISTANCE WIRE— see Wire, Bare Resistance

## BASES, Antenna Pole— see Fittings, Iron Antenna Pole

## BASES, Vacuum Tube Norton Laboratories, Inc., 1025 Mill St., Lockport, N. Y. Cataloged on page.....65

## BATTERIES, A Dry Low Voltage Dry Cells for Filament Current Supply

A. B. C.—see Advance Battery Corp.  
Ace—see Carbon Products Co.  
Advance Battery Corp., 59 Pearl St., Brooklyn, N. Y. "A. B. C."  
Bright Star Battery Co., Hoboken Land & Improvement Bldg., Hoboken, N. J.  
Burgess Battery Co., 111 W. Monroe St., Chicago, Ill.  
Burn-Boston Battery & Mfg. Works, 80 Boylston St., Boston, Mass. "Double-Life"  
Carbon Products Co., Lancaster, Ohio "Ace"  
Champion Carbon Mfg. Co., First National Bank Bldg., Cincinnati, Ohio.  
Coast Dry Battery Co., 1327 Rainier Ave., Seattle, Wash., "Whiz"  
Columbia—see National Carbon Co.  
Diamond Electric Specialties Corp., 101 S. Orange Ave., Newark, N. J.  
Cataloged on page.....36  
Double-Life—see Burn-Boston Battery & Mfg. Works  
Eveready—see National Carbon Co.  
French Battery Co., Madison, Wis. "Ray-O-Vac"  
General Dry Batteries, Inc., 11500 Madison Ave., Cleveland, Ohio. "Twin," "Kleartone"  
Hipco—see Hipwell Mfg. Co.  
Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
Kleartone—see General Dry Batteries, Inc.  
Marathon Battery Co., Wausau, Wis.  
Maximite—see Wireless Dry Cells, Ltd.

National Carbon Co., 30 E. 42d St., New York, N. Y. "Eveready," "Columbia," "Red Seal"  
Cataloged on page.....37  
Ray-O-Vac—see French Battery Co.  
Red Seal—see National Carbon Co.  
Reliance—see Wireless Dry Cells, Ltd.  
Stuart Products Corp., 663 W. Washington Blvd., Chicago, Ill.  
Sturges Multiple Battery Corp., Van Wyck Ave. & L. I. R.R., Jamaica, N. Y. N. Y.  
Twin—see General Dry Batteries, Inc.  
Whiz—see Coast Dry Battery Co.  
Wireless Dry Cells, Ltd., 904 Buffalo Ave., Niagara Falls, N. Y. "Maximite" "Reliance"  
Yale Electric Corp., Pearl & Tillary Sts., Brooklyn, N. Y.

## BATTERIES, A Storage

Low Voltage Storage Batteries for Filament Current Supply  
Advance Battery Mfg. Co., 227 E. Lee St., Louisville, Ky. "Powerfield"  
Aladdin—see Henderson Battery Co.  
American Battery Co., 2053 N. Racine Ave., Chicago, Ill.  
American Storage Battery Co., 326 Newbury St., Boston, Mass. "Harvard"  
Am-Plus Storage Battery Co., 425 W. Superior St., Chicago, Ill.  
Apollo Battery Co., S. Third St., Apollo, Pa.  
Arco Battery & Plate Co., 825 Barr St., Fort Wayne, Ind.  
Aristocrat—see Star Storage Battery Co.  
Atlas—see Chicago Battery Works  
Bear State Battery & Equipment Co., 1244 San Fernando Rd., Los Angeles, Cal.  
Bong Battery Corp., 4256 N. Western Ave., Chicago, Ill.  
Brown Mule—see Smith Co.  
Buckeye Electric Co., South Silver Leaf St., Gladwin, Mich.  
Champion—see MacRae, Hector C.  
Chicago Battery Works, 1200 S. Peoria St., Chicago, Ill. "Atlas"  
Cincinnati Storage Battery Co., 3301 Colerain Ave., Cincinnati, Ohio.  
Cole Battery Sales Corp., 2435 Indiana Ave., Chicago, Ill.  
Consol—see Consolidated Battery Co.  
Consolidated Battery Co., 1600 Walnut St., Philadelphia, Pa. "Consol"  
Continental Battery Co., 3215 Papin St., St. Louis, Mo.  
Cooper Corp., Cincinnati, Ohio.  
D-G Storage Battery Co., 2029 Indiana Ave., Chicago, Ill.  
Dixie Storage Battery Co., 1412 W. Lafayette Ave., Baltimore, Md.  
Dragon—see Englert Mfg. Co.  
Edison Storage Battery Co., Orange, N. J.  
Electric Storage Battery Co., Alleghany Ave. & 19th St., Philadelphia, Pa. "Exide"  
Cataloged on page.....38  
Englert Mfg. Co., S. 25th & Jane Sts., Pittsburgh, Pa. "Dragon"  
Ex-Cel Battery Works, 1502 S. Wabash Ave., Chicago, Ill.  
Exide—see Electric Storage Battery Co.  
Fontana Bros. Battery Co., 1166 Columbus Ave., Springfield, Mass.  
Franklin Storage Battery Co., 2901 W. Jackson Blvd., Chicago, Ill.  
General Lead Batteries Co., 4 Lister Ave., Newark, N. J. "Titan"  
General Storage Battery Co., 2005 Locust St., St. Louis, Mo. "Major"  
Gilbert Battery Co., 2926 Fairfield Ave., Bridgeport, Conn.  
Gill Storage Battery Co., 937 Third Ave., San Bernardino, Cal.  
Globe Electric Co., 14 Keefe Ave., Milwaukee, Wis.  
Gould Storage Battery Co., 250 Park Ave., New York, N. Y.  
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Grant Storage Battery Co., 116 N. Second St. Minneapolis, Minn.  
 Hartford Battery Mfg. Co., Milldale, Conn.  
 Harvard—see American Storage Battery Co.  
 Hazelett Storage Battery Co., 4405 Perkins Ave., Cleveland, Ohio  
 Heissler Storage Battery Co., 2450 Calumet Ave., Chicago, Ill.  
 Helios Co., 71 Chestnut St., Boston, Mass. "Joyce Bros"  
 Henderson Battery Co., 232 W. Sprague Ave., Spokane, Wash. "Aladdin"  
 Hobbs Storage Battery Co., 2019 Bay St., Los Angeles, Cal.  
 Jefferson Mfg. Co., Jefferson, Wis. "Nu-Era"  
 Joyce Bros—see Helios Co.  
 Kalb Electric & Mfg. Co., 7323 Manchester Ave., St. Louis, Mo. "Keco"  
 K. C. B. Electric Mfg. Co., 14th Ave. & 42d St., Sacramento, Cal.  
 Keco—see Kalb Electric & Mfg. Co.  
 Kelly Battery Corp., 724 Granby St., Norfolk, Va.  
 LanSing—see United Engine Co.  
 Liberty Battery Co., 4241 Armitage Ave., Chicago, Ill.  
 Lion Battery Mfg. Corp., 116 W. Brookline St., Boston, Mass.  
 Lithide Battery Co., First National Bank Bldg., Connellsville, Pa.  
 Lyons Storage Battery Co., 2525 N. Broad St., Philadelphia, Pa.  
 M. & M. Co., 500 Prospect Ave., Cleveland, Ohio.  
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 McLean Storage Battery Co., 500 Prospect Ave., Cleveland, Ohio.  
 MacRae, Hector C., 314 St. Paul St., Baltimore, Md. "Champion"  
 Major—see General Storage Battery Co.  
 Marko Storage Battery Co., 1402 Atlantic Ave., Brooklyn, N. Y.  
 Martin Radio & Electric Co., 130 W. 57th St., New York, N. Y. "Packard"  
 Merrimac Battery Plate Co., Seventh St. Rd. & Berry Blvd., Louisville, Ky.  
 Mid-West Storage Battery Co., 362 W. 16th Pl., Indianapolis, Ind.  
 National Lead Battery Co., 1704 Roblyn Ave., St. Paul, Minn.  
 National Utility Battery Co., Mt. Prospect, Ill. "Utility"  
 Neldich Mfg. Corp., 1450 Flushing Ave., Brooklyn, N. Y.  
 Nu-Era—see Jefferson Mfg. Co.  
 Oxidite Battery Co., 1485 Marshall Ave., St. Paul, Minn.  
 Packard—see Martin Radio & Electric Co.  
 Perrine Quality Products Corp., 50 Cummington St., Boston, Mass.  
 Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa. "Phlco"  
 Philco—see Philadelphia Storage Battery Co.  
 Pioneer Storage Battery Co., Broad & Brandywine Sts., Philadelphia, Pa.  
 Powerfield—see Advance Battery Mfg. Co.  
 Prest-O-Lite Co., 508 N. Capital Ave., (Speedway) Indianapolis, Ind.  
 Puckett Storage Battery Co., Elgin, Tex.  
 Rabat—see Radio Rabat Co.  
 Radio Rabat Co., 1758 St. Clair Ave., Cleveland, Ohio. "Rabat"  
 Radio-Rubr Storage Battery Corp., 2012 Locust Ave., St. Louis, Mo.  
 Radium Storage Battery Co., 800 Federal St., Saginaw, Mich.  
 Recharge Mfg. Co., Dayton, Ohio.  
 Reliable Storage Battery Co., 2135-57 Columbus Rd., Cleveland, Ohio  
 Cataloged on page.....78  
 Royco—see Royal Radio Products Co.  
 Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Royco"  
 Seney Electrical & Battery Works, Coldwater, Mich.  
 Service Battery Co., 704 E. 102d St., Cleveland, Ohio.  
 Silvey Electric Co., 10 S. Canal St., Dayton, Ohio

Smith Co., Harrison, Oklahoma City, Okla. "Brown Mule"  
 S. O. S.—see Victor Storage Battery Co.  
 Standard Battery Mfg. Co., 1103 N. Main St., Fort Worth, Tex.  
 Star Storage Battery Co., 311 Jefferson Ave., Muncie, Ind. "Aristocrat"  
 Starr Storage Battery Co., 260 N. 15th St., Philadelphia, Pa.  
 Stora Mfg. Co., 1400 W. 25th St., Cleveland, Ohio  
 Sturges Multiple Battery Corp., Van Wyck Ave. & L. I. R.R., Jamaica, N. Y.  
 Superior Battery Mfg. Co., 107 S. Seventh St., St. Louis, Mo.  
 Superior Storage Battery Co., 1410 Kansas Ave., Kansas City, Mo.  
 Thomas Battery Corp., 511 W. 50th St., New York, N. Y.  
 Thor—see Thornton & Everest.  
 Thornton & Everest, 1216 S. Olive St., Los Angeles, Cal. "Thor"  
 Titan—see General Lead Batteries Co.  
 Tufts, W. & G., 333 Newbury St., Boston, Mass.  
 United Engine Co., 719 E. St. Joseph St., Lansing, Mich. "Lansing"  
 U. S. Battery Co., Main Ave., Passaic N. J.  
 U S L—see U. S. Light & Heat Corp.  
 U. S. Light & Heat Corp., 3215 Highland Ave., Niagara Falls, N. Y. "U S L"  
 Universal Battery Co., 3410 S. La Salle St., Chicago, Ill.  
 Utility—see National Utility Battery Co.  
 Vesta Battery Corp., 2100 Indiana Ave., Chicago, Ill.  
 Victor Storage Battery Co., Rock Island, Ill. "S. O. S."  
 Volkcar Storage Battery Co., 220 E. 25th St., Chicago, Ill.  
 Weber Battery Co., 3332 Jackson Blvd., Chicago, Ill.  
 Western Cable & Light Co., Baldwin, Wis.  
 Westinghouse Union Battery Co., Swissvale, Pa.  
 Wheeling Battery & Mfg. Co., Elm Grove, Wheeling, W. Va.  
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio  
 Wilson Mfg. Co., E. H., 1325 Tenth St., East Moline, Ill.  
 Witherbee Storage Battery Co., 75 Columbus Ave., New York, N. Y.  
 World Battery Co., 1219 S. Wabash Ave., Chicago, Ill.  
 Wright Battery Co., 906 Leith St., Flint, Mich.  
 Yale Electric Corp., Pearl & Tillary Sts., Brooklyn, N. Y.  
 Yale Storage Battery Co., 1120 Division St., Indianapolis, Ind.

**BATTERIES, B Dry**

*High Voltage Dry Batteries for providing Plate Current*

A. B. C.—see Advance Battery Corp.  
 Ace—see Carbon Products Co.  
 Advance Battery Corp., 59 Pearl St., Brooklyn, N. Y. "A. B. C."  
 Aristocrat—see Wizard Battery Corp.  
 BBB—see Becker Bros.  
 Beacon Electric Corp., 30 E. 42d St., New York, N. Y.  
 Becker Bros., 25 W. Jefferson St., Chicago, Ill. "BBB"  
 Bright Star Battery Co., Hoboken Land & Improvement Bldg., Hoboken, N. J.  
 Burgess Battery Co., 111 W. Monroe St., Chicago, Ill.  
 Carbon Products Co., Lancaster, Ohio. "Ace"  
 Champion Carbon Mfg. Co., First National Bank Bldg., Cincinnati, Ohio.  
 Clover Battery Corp., 68 Jay St., Brooklyn, N. Y.  
 Coast Dry Battery Co., 1327 Rainier Ave., Seattle, Wash. "Whiz"  
 Cunningham Battery Co., 139 Spring St., New York, N. Y.

Curtis-Leger Fixture Co., 235 W. Jackson Blvd., Chicago, Ill.  
 Cyclone—see Standard Electric Novelty Co.  
 Deal Electric Co., 453 Broome St., New York, N. Y.  
 Diamond Electric Specialties Corp., 101 S. Orange Ave., Newark, N. J.  
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 Dry Storage Battery Corp., 213 S. Broad St., Philadelphia, Pa. "Tab"  
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 Enco Electric Novelty Co., 603 W. 130th St., New York, N. Y.  
 Everbest Battery Co., 208 Wooster St., New York, N. Y.  
 Eveready—see National Carbon Co.  
 French Battery Co., Madison, Wis. "Ray-O-Vac"  
 General Dry Batteries, Inc., 11500 Madison Ave., Cleveland, Ohio "Kleartone"  
 Hercules—see Spee Dee Specialty Co.  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 International Battery Co., 139 Spring St., New York, N. Y. "Kerton"  
 Kerton—see International Battery Co.  
 Kleartone—see General Dry Batteries, Inc.  
 Kwik-lite—see Usona Mfg. Co.  
 Liberty Battery Co., 127 E. Eighth St., Cincinnati, Ohio.  
 Marathon Battery Co., Wausau, Wis.  
 Maximite—see Wireless Dry Cells, Ltd.  
 Musselman, A. J., 549 W. Washington Blvd., Chicago, Ill.  
 National Carbon Co., 30 E. 42d St., New York, N. Y. "Eveready"  
 Cataloged on page.....37  
 National Electric Novelty Co., 407 Broome St., New York, N. Y. "Nenco"  
 National Utility Battery Co., Mt. Prospect, Ill. "Utility"  
 Nenco—see National Electric Novelty Co.  
 Queenbee—see Volton Battery Co.  
 Ray-O-Vac—see French Battery Co.  
 Spee Dee Specialty Co., 271 Canal St., New York, N. Y. "Hercules"  
 Standard Electric Novelty Co., 19 Bond St., New York, N. Y. "Cyclone"  
 Stuart Products Corp., 663 W. Washington Blvd., Chicago, Ill.  
 Sturges Multiple Battery Corp., Van Wyck Ave. & L. I. R.R., Jamaica, N. Y.  
 Success Electric Novelty Co., 31 Broadway, Brooklyn, N. Y.  
 Tab—see Dry Storage Battery Corp.  
 Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio.  
 Usona Mfg. Co., 103 E. 125th St. New York, N. Y. "Kwik-lite"  
 Utility—see National Utility Battery Co.  
 Volton Battery Co., 21 Hopkins St., Brooklyn, N. Y. "Queenbee"  
 Whlz—see Coast Dry Battery Co.  
 Winchester Repeating Arms Co., 275 Winchester Ave., New Haven, Conn.  
 Wireless Dry Cells, Ltd., 904 Buffalo Ave., Niagara Falls, N. Y. "Maximite"  
 Wizard Battery Corp., 381 N. Main St., Pawtucket, R. I. "Aristocrat"  
 Yale Electric Corp., Pearl & Tillary Sts., Brooklyn, N. Y.

**BATTERIES, B Storage**

*High Voltage Storage Batteries for providing Plate Current*

Aladdin—see Henderson Battery Co.  
 American Battery Co., 2053 N. Racine Ave., Chicago, Ill.  
 Bear State Battery Equipment Co., 1244 San Fernando Rd., Los Angeles, Cal.  
 Beehive—see Brinker-Van Cleef Corp.  
 Bong Battery Corp., 4256 N. Webster Ave., Chicago, Ill.  
 Brant Battery Co., 1622 W. 16th St., Los Angeles, Cal.  
 Brinker-Van Cleef Corp., 223 W. 80th St., New York, N. Y. "Beehive"

## BATTERIES, B Storage Continued

Camel—see Campbell Electric Co.  
 Campbell Electric Co., 1529 Wyandotte St., Kansas City, Mo. "Camel"  
 Cincinnati Storage Battery Co., 3301 Colerain Ave., Cincinnati, Ohio  
 Cleartune B Battery Co., 178 Varick St., New York, N. Y.  
 Cole Battery Sales Corp., 2435 Indiana Ave., Chicago, Ill.  
 D. A. Radio Co., 30 Hollister St., Buffalo, N. Y.  
 D-G Storage Battery Co., 2029 Indiana Ave., Chicago, Ill.  
 Dragon—see Englert Mfg. Co.  
 Durkee-Thomas Products Co., 1223 Folsom St., San Francisco, Cal. "Super-Dutho"  
 Eaco—see Economic Appliance Co.  
 Economic Appliance Co., Irwin, Pa. "Eaco"  
 Edison Storage Battery Co., Orange, N. J.  
 Electric Storage Battery Co., Allegheny, Ave. & 19th St., Philadelphia, Pa. "Exide"  
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 Endurance—see Gray Electro Chemical Laboratories.  
 Englert Mfg. Co., S., 25th & Jane Sts., Pittsburgh, Pa. "Dragon"  
 Everbest Battery Co., 208 Wooster St., New York, N. Y.  
 Ex-Cel Battery Works, 1502 S. Wabash Ave., Chicago, Ill.  
 Exide—see Electric Storage Battery Co.  
 Federal Battery Co., 1509 S. Michigan Ave., Chicago, Ill.  
 Fontana Bros. Battery Co., 1166 Columbus Ave., Springfield, Mass.  
 Forbes—see Hearwell Electric Co.  
 Franklin Storage Battery Co., 2901 W. Jackson Blvd., Chicago, Ill.  
 General Lead Batteries Co., 4 Lister Ave., Newark, N. J. "Titan"  
 Gilbert Battery Co., 2926 Fairfield Ave., Bridgeport, Conn.  
 Globe Electric Co., 14 Keefe Ave., Milwaukee, Wis.  
 Gordon Radio & Electric Mfg. Co., 1610 Fourth Ave., Seattle, Wash.  
 Gould Storage Battery Co., 250 Park Ave., New York, N. Y.  
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 Grant Storage Battery Co., 116 N. Second St., Minneapolis, Minn.  
 Gray Electro Chemical Laboratories, 684 Ave. E., Bayonne, N. J. "Endurance"  
 Graynie Corp., 323 W. Jackson Blvd., Chicago, Ill.  
 Hartford Battery Mfg. Co., Milldale, Conn.  
 Hawley—see Smith, B. H.  
 Hazelett Storage Battery Co., 4405 Perkins Ave., Cleveland, Ohio  
 Hearwell Electric Co., 53 Devonshire St., Boston, Mass. "Forbes"  
 Heissler Storage Battery Co., 2450 Calumet Ave., Chicago, Ill.  
 Helios Co., 71 Chestnut St., Boston, Mass. "Joyce Bros."  
 Henderson Battery Co., 232 Sprague Ave., Spokane, Wash. "Aladdin"  
 Ideal Battery Mfg. Co., 233 N. Market St., Huntington, Ind. "Tip-Top"  
 Jefferson Mfg. Co., Jefferson, Wis. "Nu-Era"  
 Joyce Bros.—see Helios Co.  
 K. C. B. Electric Mfg. Co., 14th Ave. & 42d St., Sacramento, Cal.  
 Kic-o—see Kimley Electric Co.  
 Kimley Electric Co., 2665 Main St., Buffalo, N. Y. "Kic-o"  
 Kismet—see Radio Telephone & Telegraph Corp.  
 Lane Mfg. Co., 2941 W. Lake St., Chicago, Ill. "Pepo"  
 Liberty Battery Co., 4241 Armitage Ave., Chicago, Ill.  
 Lion Battery Mfg. Corp., 116 N. Brookline St., Boston, Mass.

Lyons Storage Battery Co., 2525 N. Broad St., Philadelphia, Pa.  
 Macs—see McKinney Co.  
 Main Radio Batteries, Delaware, Ohio  
 Marcuson, E., 19 Madison Ave., New York, N. Y.  
 Marko Storage Battery Co., 1402 Atlantic Ave., Brooklyn, N. Y.  
 McKinney Co., E. A., 913 Cypress Ave., Santa Ana, Cal. "Macs"  
 McLean Storage Battery Co., 500 Prospect Ave., Cleveland, Ohio  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"  
 Muzada—see Mazda Radio Mfg. Co.  
 National Lead Battery Co., 1704 Roblyn Ave., St. Paul, Minn.  
 New York Pacific Battery Co., 646 W. Washington St., Los Angeles, Cal.  
 Nu-Era—see Jefferson Mfg. Co.  
 Nu-Seal—see Universal Battery Co.  
 Oxidite Battery Co., 1485 Marshall Ave., St. Paul, Minn.  
 Pepo—see Lane Mfg. Co.  
 Perrine Quality Products Corp., 50 Cummington St., Boston, Mass.  
 Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa. "Philco"  
 Philco—see Philadelphia Storage Battery Co.  
 Prest-O-Lite Co., 508 N. Capitol Ave. (Speedway) Indianapolis, Ind.  
 Queenbee—see Volton Battery Co.  
 Rabat—see Radio Rabat Co.  
 Radio Rabat Co., 1758 St. Clair Ave., Cleveland, Ohio. "Rabat"  
 Radio-Rubr Storage Battery Corp., 2012 Locust St., St. Louis, Mo.  
 Radio Telephone & Telegraph Corp., 130 W. 42d St., New York, N. Y. "Kismet"  
 Roberts "B" Battery Co., 1120 Myrtle Ave., Brooklyn, N. Y.  
 Royal B Battery Co., 124 W. 34th St., New York, N. Y.  
 See-Jay Battery Co., 915 Brook Ave., New York, N. Y.  
 Service Battery Co., 704 E. 102d St., Cleveland, Ohio  
 Silvey Electric Co., 10 S. Canal St., Dayton, Ohio  
 Smith, B. H., 39 Washington Ave., Danbury, Conn. "Hawley"  
 Star Storage Battery Co., 311 N. Jefferson St., Muncie, Ind.  
 Storad Mfg. Co., 1400 W. 25th St., Cleveland, Ohio  
 Super-Dutho—see Durkee-Thomas Products Co.  
 Superior Storage Battery Co., 1410 Kansas Ave., Kansas City, Mo.  
 Thor—see Thornton & Everest.  
 Thornton & Everest, 1216 S. Olive St., Los Angeles, Cal. "Thor"  
 Tip-Top—see Ideal Battery Mfg. Co.  
 Titan—see General Lead Batteries Co.  
 Todd Electric Co., 36 W. 20th St., New York, N. Y.  
 U S L—see U. S. Light & Heat Corp.  
 U. S. Light & Heat Corp., 3215 Highland Ave., Niagara Falls, N. Y. "U S L"  
 Universal Battery Co., 3410 S. La Salle St., Chicago, Ill. "Nu-Seal"  
 Vesta Battery Corp., 2100 Indiana Ave., Chicago, Ill.  
 Volkcar Storage Battery Co., 220 E. 25th St., Chicago, Ill.  
 Volton Battery Co., 21 Hopkins St., Brooklyn, N. Y. "Queenbee"  
 Western Cable & Light Co., Baldwin, Wis.  
 Western Battery & Supply Co., 12th & Lincoln Sts., Denver, Colo. "Westric"  
 Westinghouse Union Battery Co., Swissvale, Pa.  
 Westric—see Western Battery & Supply Co.  
 Wheeling Battery & Mfg. Co., Elm Grove, Wheeling, W. Va.  
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio

Wilson Mfg. Co., E. H., 1325 Tenth St., East Moline, Ill.

World Battery Co., 1219 S. Wabash Ave., Chicago, Ill.

Yale Storage Battery Co., 1120 Division St., Indianapolis, Ind.

Zeid, J., 530 Callowhill St., Philadelphia, Pa.

## BATTERIES, C Dry

*Low Voltage Dry Batteries for providing negative Voltage Bias*  
 A. B. C.—see Advance Battery Corp.  
 Ace—see Carbon Products Co.  
 Addwater—see Burn-Boston Battery & Mfg. Works.  
 Advance Battery Corp., 59 Pearl St., Brooklyn, N. Y. "A. B. C."  
 Bright Star Battery Co., Hoboken Land & Improvement Bldg., Hoboken, N. J.  
 Burgess Battery Co., 111 W. Monroe St., Chicago, Ill.  
 Burn-Boston Battery & Mfg. Works, 80 Boylston St., Boston, Mass. "Addwater"  
 Carbon Products Co., Lancaster, Ohio. "Ace"  
 Champion Carbon Mfg. Co., First National Bank Bldg., Cincinnati, Ohio.  
 Clover Battery Corp., 68 Jay St., Brooklyn, N. Y.  
 Cyclone—see Standard Electric Novelty Co.  
 Diamond Electric Specialties Corp., 101 S. Orange Ave., Newark, N. J.  
 Cataloged on page.....36  
 Encp Electric Novelty Co., 603 W. 130th St., New York, N. Y.  
 Eveready—see National Carbon Co.  
 French Battery Co., Madison, Wis. "Ray-O-Vac"  
 General Dry Batteries, Inc., 11500 Madison Ave., Cleveland, Ohio. "Klear-tone"  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 International Battery Co., 139 Spring St., New York, N. Y. "Kerton"  
 Kerton—see International Battery Co.  
 Klear-tone—see General Dry Batteries, Inc.  
 Kwik-lite—see Usona Mfg. Co.  
 Marathon Battery Co., Wausau, Wis.  
 National Carbon Co., 30 E. 42d St., New York, N. Y. "Eveready"  
 Cataloged on page.....37  
 National Electric Novelty Co., 407 Broome St., New York, N. Y. "Nenco"  
 Nenco—see National Electric Novelty Co.  
 Queenbee—see Volton Battery Co.  
 Ray-O-Vac—see French Battery Co.  
 Standard Electric Novelty Co., 19 Bond St., New York, N. Y. "Cyclone"  
 Stuart Products Corp., 663 W. Washington Blvd., Chicago, Ill.  
 Sturges Multiple Battery Corp., Van Wyck Ave. & L. I. R.R., Jamaica, N. Y.  
 Success Electric Novelty Co., 31 Broadway, Brooklyn, N. Y.  
 Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio.  
 Usona Mfg. Co., 103 E. 125th St., New York, N. Y. "Kwik-lite"  
 Volton Battery Co., 21 Hopkins St., Brooklyn, N. Y. "Queenbee"  
 Winchester Repeating Arms Co., 275 Winchester Ave., New Haven, Conn.  
 Yale Electric Corp., Pearl & Tillary Sts., Brooklyn, N. Y.

## BATTERIES AND CHARGERS,

### Combined—

see Batteries, Combined Rectifier and Storage

## BATTERIES, Combined Rectifier and Storage

*Complete Filament or Plate Battery with Rectifying Apparatus assembled as one Unit*

**Acme Electric Mfg. Co.**, 1441 Hamilton Ave., Cleveland, Ohio  
 Cataloged on page.....74

**Aidifen Battery Co.**, 68 E. McMicken St., Cincinnati, Ohio.

**American Battery Co.**, 2053 N. Racine Ave., Chicago, Ill. "PowerWell"

**American Storage Battery Co.**, 326 Newbury St., Boston, Mass. "Harvard"

**Am-Plus Storage Battery Co.**, 425 W. Superior St., Chicago, Ill.

**Brant Battery Co.**, 1622 W. 16th St., Los Angeles, Cal.

**Electric Storage Battery Co.**, Allegheny Ave., & 19th St., Philadelphia, Pa. "Exlde"  
 Cataloged on page.....38

**Exlde**—see Electric Storage Battery Co.

**Gould Storage Battery Co.**, 250 Park Ave., New York, N. Y. "Unipower"  
 Cataloged on page.....39

**Graynie Corp.**, 323 W. Jackson Blvd., Chicago, Ill.

**Harvard**—see American Storage Battery Co.

**Kalb Electric & Mfg. Co.**, 7323 Manchester Ave., St. Louis, Mo. "Kombination De Luxe"

**Kico**—see Kimly Electric Co.

**Kimly Electric Co.**, 2665 Main St., Buffalo, N. Y. "Kico"

**Kombination De Luxe**—see Kalb Electric & Mfg. Co.

**M. & M. Co.**, 500 Prospect Ave., Cleveland, Ohio  
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**Marko Storage Battery Co.**, 1402 Atlantic Ave., Brooklyn, N. Y.

**Perrine Quality Products Corp.**, 50 Cummington St., Boston, Mass.

**PowerWell**—see American Battery Co.

**Radio Units, Inc.**, 1316 First Ave., Maywood, Ill. "Wilson"

**Reliable Storage Battery Co.**, 2135-37 Columbus Rd., Cleveland, Ohio  
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**Star Storage Battery Co.**, Muncie, Ind.

**Unipower**—see Gould Storage Battery Co.

**Unitron Electric Co.**, 276 New St., Newark, N. J.

**Universal Products Co.**, Oshkosh, Wis.

**Vesta Battery Corp.**, 2100 Indiana Ave., Chicago, Ill.

**Willard Storage Battery Co.**, 246 E. 131st St., Cleveland, Ohio

**Wilson**—see Radio Units, Inc.

**Wolke Electric Co.**, 618 S. First St., Louisville, Ky.

**BATTERIES, Knock Down B Storage**

*All parts of Storage B Batteries ready for assemblage*

**Pacific Screw Co.**, 645 N. E. 53d St., Portland, Ore. "Pasco"

**Pasco**—see Pacific Screw Co.

**Romco Storage Battery Co.**, 146 W. 68th St., New York, N. Y.

**BATTERY ACID—**

see Acid, Sulphuric

**BATTERY CABLE—**

see Cables, Multiple Battery

**BATTERY CABLES, Multiple—**

see Cables, Multiple Battery

**BATTERY CHARGERS—**

see Rectifiers, Battery Charging, Bulb also Rectifiers, Battery Charging, Electrolytic  
 also Rectifiers, Battery Charging, Vibrator  
 also Resistors, Battery Charging

**BATTERY CHARGING MOTOR-GENERATORS—**

see Motor-Generators, Battery Charging

**BATTERY CHARGING RESISTORS—**

see Resistors, Battery Charging

**BATTERY CLIPS—**

see Clips, Electrical Test

**BATTERY CONNECTORS—**

see Connectors, Battery

**BATTERY CORDS—**

see Cables, Multiple Battery

**BATTERY ELECTROLYTE—**

see Acid, Sulphuric

**BATTERY ELIMINATOR KITS—**

see Rectifiers, Knockdown Plate Current Supply

**BATTERY ELIMINATORS—**

see Rectifiers, Filament Current Supply  
 also Rectifiers, Filament and Plate Current Supply  
 also Rectifiers, Plate Current Supply

**BATTERY FILLERS—**

see Fillers, Storage Battery

**BATTERY JARS—**

see Jars, Glass Battery  
 also Jars, Rubber Battery

**BATTERY MATS—**

see Mats, Rubber Battery

**BATTERY METERS—**

see Ammeters and Voltmeters, Panel  
 also Ammeters and Voltmeters, Pocket

**BATTERY PAINT—**

see Paint, Acid Resisting

**BATTERY POTENTIOMETERS—**

see Potentiometers, Battery

**BATTERY RHEOSTATS—**

see Rheostats, Battery  
 also Rheostats, Vernier Battery

**BATTERY SEALING COMPOUNDS—**

see Compounds, Battery Sealing

**BATTERY SEPARATORS—**

see Separators, Wood Battery  
 also Rubber, Hard

**BATTERY SUBSTITUTES—**

see Rectifiers, Filament Current Supply  
 also Rectifiers, Filament and Plate Current Supply  
 also Rectifiers, Plate Current Supply

**BATTERY SYRINGES—**

see Syringes, Bulb

**BATTERY TEST TUBES—**

see Tubes, Glass Test

**BATTERY TESTING HYDROMETERS—**

see Hydrometers, Battery Testing

**BATTERY TESTING INSTRUMENTS—**

see Ammeters and Voltmeters  
 also Hydrometers, Battery Testing

**BATTERY TRAYS—**

see Trays, Glass Battery  
 also Trays, Rubber Battery

**BATTERY WIRING ASSEMBLIES—**

see Cables, Multiple Battery

**BELL WIRE—**

see Wire, Bell

**BENCH VISES—**

see Vises, Machinists and Bench

**BENDING TOOLS, Bus Bar—**

see Tools, Bus Bar Bending

**BEZELS, Panel**

*Metal Rings for finishing-off edge of holes cut in Panels*

**Alden Mfg. Co.**, Dept. D-7, Springfield, Mass. "Na-ald"

**Electrical Research Laboratories**, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"

**Erla**—see Electrical Research Laboratories.

**Fischer Spring Co.**, Chas., 240 Kent Ave., Brooklyn, N. Y.

**Mar-Co**—see Martin-Copeland Co.

**Martin-Copeland Co.**, 101 Sabin St., Providence, R. I. "Mar-Co"

**Morse Co.**, Frank W., 289 Congress St., Boston, Mass.

**Na-ald**—see Alden Mfg. Co.

**Sheffield Trimming & Stamping Corp.**, 211 Centre St., New York, N. Y. "Stasco"

**Stasco**—see Sheffield Trimming & Stamping Corp.

**Waterbury Button Co.**, Waterbury, Conn.

**BINDING POST STRIPS—**

see Strips, Binding Post

**BINDING POSTS—**

see Posts, Composition  
 also Posts, Jack  
 also Posts, Lettered  
 also Posts, Metal  
 also Posts, Multiple Connection

**BIT BRACES—**

see Braces, Bit

**BITS, Auger**

**Deuse, J. S.**, Chester, Conn.

**Forest City Bit & Tool Co.**, Rockford, Ill.

**Irwin Auger Bit Co.**, Wilmington, Ohio.



## BITS, Auger Continued

Jennings Mfg. Co., Russell, Chester, Conn.  
 Kilborn & Bishop Co., 196 Chapel St., New Haven, Conn.  
 Millers Falls Co., Millers Falls, Mass.  
 Misener & Irving Mfg. Co., 326 E. Genesee St., Syracuse, N. Y.  
 Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Progressive Mfg. Co., 52 Norwood St., Torrington, Conn.  
 Snell Mfg. Co., Fiskdale, Mass.  
 Swan Co., Jas., 279 Bank St., Seymour, Conn.

## BLADES, Hack Saw

*For Hack Saw Frames—see Frames, Hack Saw*

A A A—see Atkins & Co.  
 American Saw & Mfg. Co., Springfield, Mass. "Lenox"  
 Atkins & Co., E. C., 402 S. Illinois St., Indianapolis, Ind. "A A A"  
 Clemson Bros., Middletown, N. Y. "Star"  
 Diamond Saw & Stamping Works, 357 Seventh St., Buffalo, N. Y. "Sterling"  
 Disston & Sons, Henry (Tacony), Philadelphia, Pa.  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Higrade—see Standard Saw & Tool Mfg. Co.  
 Lenox—see American Saw & Mfg. Co.  
 Mayhew Steel Products, 35 Warren St., New York, N. Y.  
 Mil Flex—see Thompson & Son Co.  
 Milford—see Thompson & Son Co.  
 Millers Falls Co., Millers Falls, Mass.  
 Napier Saw Works, 22 Cottage St., Middletown, N. Y. "Quality"  
 Ohlen—Bishop Co., Columbia, Ohio  
 Quality—see Napier Saw Works  
 Sawilco—see Sawyer Belt Hook Co.  
 Sawyer Belt Hook Co., Pawtucket, R. I. "Sawilco"  
 Simonds Mfg. Co., 470 Main St., Fitchburg, Mass.  
 Spartan Saw Works, Wason & Fiske Aves., Springfield, Mass.  
 Standard Saw & Tool Mfg. Co., 10 Darnell St., Boston, Mass. "Higrade"  
 Star—see Clemson Bros.  
 Starrett Co., L. S., 165 Crescent St., Athol, Mass.  
 Sterling—see Diamond Saw & Stamping Works  
 Thompson & Son Co., Henry G., 277 Chapel St., New Haven, Conn. "Milford" "Mil Flex"  
 Victor Saw Works, Middletown, N. Y.  
 Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.

## BLOCKS, Multiple Phone—

see Boxes, Multiple Phone

## BLOW TORCHES—

see Torches, Alcohol

## BOARD ASBESTOS—

see Asbestos, Board and Tube

## BOARDS, Wired Base

*Manufacturers equipped to produce partially assembled and wired sub-panels or Base Boards*

Formica Insulation Co., 4662 Spring Grove Ave., Cincinnati, Ohio  
 Cataloged on page.....60

Ranger Coil Co., West Davenport, N. Y.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.

## BORNITE CRYSTALS—

see Crystals

## BOXES, Cable Connecting

*Terminal or Distribution Boxes for Connections with primary and secondary Power Cables permanently installed*  
 Kellogg Switchboard & Supply Co., Chicago, Ill. "Konekt Rite"  
 Konekt Rite—see Kellogg Switchboard & Supply Co.

## BOXES, Corrugated Fibre

*Companies equipped to produce special corrugated Fibre Shipping Cartons*  
 Gaylord, Inc., Robert, 1501 Locust St., St. Louis, Mo.  
 Hinde & Dauch Paper Co., 309 Water St., Sandusky, Ohio  
 National Folding Box Co., James St., New Haven, Conn.

## BOXES, Fibre—

see Boxes, Corrugated Fibre

## BOXES, Multiple Phone

*Boxes for providing additional connections for either Head Sets or Loud Speakers; for Multiple Phone Plugs—see Plugs, Multiple Phone*  
 Barkelew Electric Mfg. Co., Middletown, Ohio.  
 Dictograph Products Corp., 220 W. 42d St., New York, N. Y.  
 Fahnestock Electric Co., Long Island City, N. Y.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Cataloged on page.....86  
 Murdock Co., Wm. J., 347 Washington Ave., Chelsea, Mass.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

## BOXES, Packing—

see Boxes, Corrugated Fibre

## BOXES, Resistance—

see Boxes, Standard Resistance

## BOXES, Standard Capacity

*Capacity Bridges for Laboratory use; for Variable Condensers—see Condensers, Variable*  
 General Radio Co., 30 State St., Cambridge, Mass.

## BOXES, Standard Resistance

*Variable Resistances for accurate adjustment; for Fixed Standard Units—see Resistances, Standard Unit*  
 Central Scientific Co., 460 E. Ohio St., Chicago, Ill.  
 General Radio Co., 30 State St., Cambridge, Mass.

## BRACES, Bit

Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Lancaster Machine & Knife Works, Lancaster, N. Y.  
 Mayhew Steel Products Co., 33 Warren St., New York, N. Y.  
 Millers Falls Co., Millers Falls, Mass.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Stanley Rule & Level Co., 111 Elm St., New Britain, Conn.

## BRACKETS, Antenna Insulator

*Insulator Supports for Lead-in Wires*  
 Line Material Co., South Milwaukee, Wis.  
 M & M Co., 500 Prospect Ave., Cleveland, Ohio.  
 Pearl Co., Wm. H., Transportation Bldg., Indianapolis, Ind.

## BRACKETS, Antenna Pole—

see Fittings, Iron Antenna Pole

## BRACKETS, Brass Angle

*Small angle Brackets for mounting Parts to Panel or Baseboard; for Sub-panel Brackets—see Brackets, Sub-panel*

American Radio Hardware Co., 203 Lafayette St., New York, N. Y.  
 General Stamping Works, 243 E. 24th St., New York, N. Y.  
 Toaz Engineering & Sales Co., 11703 Robertson Ave., Cleveland, Ohio  
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## BRACKETS, Sub-Panel

*Supports for mounting Sub-Panel to Panel; for Brass Angle Brackets—see Brackets, Brass Angle*

American Radio Hardware Co., 203 Lafayette St., New York, N. Y.  
 Benjamin Electric Mfg. Co., 128 S. Sangamon St., Chicago, Ill.  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla—see Electrical Research Laboratories.  
 Garfield Radio Mfg. Corp., 64 Vesey St., New York, N. Y.  
 Insulating Company of America, (Radio Panel & Parts Div.), 59 Warren St., New York, N. Y.  
 Kellaradio, Inc., 821 Market St., San Francisco, Cal.  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Precise Mfg. Corp., 254 Mill St., Rochester, N. Y.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 Waterbury Button Co., Waterbury, Conn.

## BRAIDED ANTENNA WIRE—

see Wire, Braided Copper Antenna

## BRAIDED WIRE—

see Wire, Braided Copper Antenna

## BRASS ANGLE BRACKETS—

see Brackets, Brass Angle

## BRASS EYELETS—

see Eyelets, Brass

## BRASS GROMMETS—

see Eyelets, Brass

## BRASS MACHINE SCREWS—

see Screws, Brass Machine

## BRASS NUTS—

see Nuts, Brass and Copper

## BRASS RIVETS—

see Rivets, Brass and Copper

**BRASS, Rod—**

see Brass and Copper, Sheet

**BRASS SLIDERS—**

see Sliders, Tuning Coil

**BRASS TUBING—**

see Tubing, Brass and Copper

**BRASS WASHERS—**

see Washers, Brass and Copper

**BRASS WOOD SCREWS—**

see Screws, Brass Wood

**BRASS AND COPPER,  
Sheet and Rod**

American Brass Co., Waterbury, Conn.

"Anaconda"

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Anaconda—see American Brass Co.

Baltimore Copper Smelting & Rolling Co.,  
Fourth Ave. & Fifth St., (Canton),  
Baltimore, Md.

Bridgeport Brass Co., E. Main St., Bridge-  
port, Conn. "Ledrite"

Chase Companies, Inc., 236 Grand St.,  
Waterbury, Conn.

Detroit Copper & Brass Rolling Mills,  
Clark Ave. & Wabash R.R., Detroit,  
Mich.

Ledrite—see Bridgeport Brass Co.

Manhattan Brass Co., 332 E. 28th St.,  
New York, N. Y.

Michigan Copper & Brass Works, 5851 W.  
Jefferson Ave., Detroit, Mich. "Wol-  
verine"

Mueller Brass Co., Port Huron, Mich.

New Haven Copper Co., Seymour, Conn.

Omega—see Riverside Metal Co.

Randolph-Clowes Co., 384 Bank St. Water-  
bury, Conn.

Riverside Metal Co., Riverside, N. J.  
"Omega"

Rome Brass & Copper Co., Bouch St.,  
Rome, N. Y.

Scovill Mfg. Co., Waterbury, Conn.

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Seymour Mfg. Co., Seymour, Conn.

Williams & Son, E. A., 105 Plymouth St.,  
Jersey City, N. J.

Wolverine—see Michigan Copper & Brass  
Works

**BREAST DRILLS—**

see Drills, Hand and Breast

**BRONZE, Phosphor—**

see Brass and Copper, Sheet and Rod

**BULB RECTIFIERS—**

see Rectifiers, Battery Charging Bulb

**BULB SYRINGES—**

see Syringes, Bulb

**BULBS—**

see Bulbs, Miniature  
also Tubes, Rectifier  
also Tubes, Vacuum

**BULBS, Miniature**

For use in Panel lights, etc.

National Lamp Works, of General Elec-  
tric Co., (Nela Park) Cleveland, Ohio.

**BUS-BAR BENDING TOOLS—**

see Tools, Bus-Bar Bending

**BUS-BAR WIRE—**

see Wire, Bare Bus-Bar  
also Wire, Insulated Bus-Bar

**BUS WIRE CONNECTORS—**

see Connectors, Solderless Bus-Wire

**BUSHINGS, Dial**

Waterbury Button Co., Waterbury, Conn.

**BUSHINGS, Lead-In—**

see Insulators  
also Tubes, Porcelain

**BUZZERS, High Frequency**

Small Buzzer Units for Test purposes.

Ajax Electric Co., 18 Palmer St., Cam-  
bridge, Mass. "Hytone"

Federal Radio Corp., 1738 Elmwood Ave.,  
Buffalo, N. Y.

General Radio Co., 30 State St., Cam-  
bridge, Mass.

Hytone—see Ajax Electric Co.

Signal Electric Mfg. Co., 1915 Broadway,  
Menominee, Mich.

**BUZZERS, Practice—**

see Buzzers, High Frequency

**BY-PASS CONDENSERS—**

see Condensers, Fixed  
also Condensers, Filter

**C BATTERIES—**

see Batteries, C Dry

**CABINET HINGES—**

see Hinges, Cabinet

**CABINETS, Fabric or  
Leather Covered**

Fabric or Leather Covered Cases for  
holding Radio Sets

Berg Auto Trunk & Specialty Co., Ameri-  
can Chiclé Bldg., Long Island City,  
N. Y.

Knickerbocker Case Co., 228 N. Clinton  
St., Chicago, Ill.

**CABINETS, Knockdown**

Complete Cases ready for Assembly

Berman Sporting Goods Co., 92 E. Sev-  
enth St., St. Paul, Minn.

Corbett Cabinet Mfg. Co., St. Marys, Pa.

Crowe Name Plate & Mfg. Co., Chicago,  
Ill.

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Gordon Radio & Electric Mfg. Co., 1610  
Fourth Ave., Seattle, Wash.

Morris Register Co., 29th St. & Broadway,  
Council Bluffs, Iowa

**CABINETS, Wood**

Cabinets and Consoles for holding Radio  
Sets; for Radio Tables—see Tables,  
Radio

A. & A. Furniture Mfg. Co., 1117 E. 63d.  
St., Los Angeles, Cal.

A-1 Woodworking Co., 1338 San Julian  
St., Los Angeles, Cal.

Acme Cabinet Co., 37 N. Ninth St., Phila-  
delphia, Pa.

Acorn—see Royal Radio Products Co.

Adapto—see Donehue Co.

Adler Mfg. Co., Louisville, Ky.

Aerial & Radio Mfg. Co., 562 Golden Gate  
Ave., San Francisco, Cal.

Akerson - Ringstrom Co., Keokuk, Iowa  
"Arco"

Albano Co., 306 E. 47th St., New York,  
N. Y.

American Beauty—see Pierson Co.

American Cabinet Works, Belmar, N. J.

American Chest Co., Waukesha, Wis.

American Emblem Co., Utica, N. Y.

American Furniture & Cabinet Co., 231  
Race St., Philadelphia, Pa.

American Radio Cabinet Co., 245 Race  
St., Philadelphia, Pa.

Arco—see Akerson-Ringstrom Co.

Ariel Cabinet Co., Peru, Ind.

Art Cabinet Mfg. Corp., 1427 Carroll Ave.,  
Chicago, Ill.

Art Novelty Co., E. Lincoln Ave., Goshen,  
Ind.

Artee Radio Sales & Mfg. Co., 16 Hudson  
St., New York, N. Y.

Artistic Radio Cabinet Mfrs., 32 N. Fifth  
St., Philadelphia, Pa.

Artwood Shops, Inc., 14 Railroad St.,  
Rochester, N. Y.

Associated Radio Cabinet Mfrs., 209 W.  
18th St., New York, N. Y.

Baker—see Quincy Quality Products Co.

Baldwin Radio Electrical Mfg. Co., 684  
Bergen St., Brooklyn, N. Y.

Bear Furniture Co., G. H., Allentown, Pa.

Behnke-Fink Mfg. Co., 1106 Frank St.,  
Chicago, Ill.

Blandin Phonograph Co., Racine, Wis.

Bordeaux—see Radio-Master Corp. of  
America.

Boston Mirror Co., 129 Portland St.,  
Boston, Mass.

Braeburn—see Stiles & Co.

Brendel Mfg. Co., Chas. 1020 W. 33d St.,  
Indianapolis, Ind.

Broadcaster Corp., 2414 W. Cullerton  
Ave., Chicago, Ill.

Bryan Leader—see Jesse Mfg. Co.

Bryan Special—see Jesse Mfg. Co.

Buffalo Furniture Mfg. Co., 1021 Elk St.,  
Buffalo, N. Y.

Burgess Cabinet Co., 1142 Franklin St.,  
Trenton, N. J.

Burt Bros., 2000 S. Ninth St., Philadel-  
phia, Pa.

Capitol City Furniture Co., 639 Jackson St.,  
St. Paul, Minn.

Carlson Cabinet Works, 21 Market St.,  
Jamestown, N. Y. "Carlson"

Case Toy & Sales Co., 7250 Kelley St.,  
(Homewood Sta.), Pittsburgh, Pa.

Caswell-Runyon Co., Huntington, Ind.

Chamberlayne, Inc., 503 E. 73d St., New  
York, N. Y.

Charlotte Furniture Co., Charlotte, Mich.

Charmaphone Co., Pulaski, N. Y.

Chicago Phonograph Mfg. Co., 5127 S. State  
St., Chicago, Ill.

Chillicothe Furniture Co., 1 Cherry St.,  
Chillicothe, Mo.

Cincinnati Auto Body Co., 1938 W. Eighth  
St., Cincinnati, Ohio

Columbia Mantel Co., 175 Powers St.,  
Brooklyn, N. Y. "Recordion"

Conants' Sons, F. H., Camden, N. Y.

Connersville Furniture Co., Connersville,  
Ind.

Corbett Cabinet Mfg. Co., St. Marys, Pa.

Cornish Piano Co., Washington, N. J.

Crecent Chair Co., Plymouth, Wis.

Dansville Trunk Corp., Dansville, N. Y.

Detroit Woodcraft Corp., 2262 Hendrie  
Ave., Detroit, Mich.

Dettenborn Woodworking Co., L. F., 307  
Sheldon St., Hartford, Conn.

Deutsch Co., J. M., Hornell, N. Y.

Diamond Cabinet Co., 3542 N. Carlisle St.,  
Philadelphia, Pa.

Dixie Cabinet Co., 511 N. Solomon St.,  
New Orleans, La.

## CABINETS, Wood Continued

- Donehue Co., L. R., 112 Smith St., Perth Amboy, N. J. "Adapto"
- Ebco—see Electrotpe Blocking Co.
- Edon Novelty Works, Edon, Ohio
- Ehlert Cabinet Co., 1310 Lincoln Ave., Waukesha, Wis. "Master" "Jewell" "Super-Master"  
Cataloged on page.....41
- Electrotpe Blocking Co., 410 W. 27th St., New York, N. Y. "Echo"
- Elgin Phono Cabinet Co., 276 Ninth Ave., New York, N. Y.
- Elgin Phonograph & Novelty Co., Elgin, Ill.  
Cataloged on page.....41
- Elite Radio Co., 4 Landscape Ave., Yonkers, N. Y.
- Elokay Mfg. Co., 946 Fulton St., Brooklyn, N. Y.
- Emerson Radio & Phonograph Corp., 309 Sixth Ave., New York, N. Y.
- Empire-United Hat Block Co., 312 E. 22d St., New York, N. Y.
- Eshoo Cabinet Works, E., 635 Herkimer St., Brooklyn, N. Y.
- Essex Mfg. Co., 40 Lawrence St., Newark, N. J.
- Excello Products Corp., 4830 W. 16th St., Cicero, Ill.  
Cataloged on page.....42
- Express Body Corp., 44 Lake St., Crystal Lake, Ill. "M-B-G" "Neat-Fit"
- Fashion Furniture Corp., Youngsville, Pa.
- Fetha-Stel Products Co., 569 West Van Buren St., Chicago, Ill.
- Fine-Arts—see Plaza Music Co.
- French Furniture Co., Wm. A., 217 N. E. Fifth St., Minneapolis, Minn.
- Furnas Furniture Co., 139 S. East St., Indianapolis, Ind.
- Fuller Co., P. H., Emporium, Pa.
- Furniture Shops, 840 Monroe Ave., Grand Rapids, Mich.
- Furniture Studios, Grand Rapids, Mich.
- Gerson, Louis Jay, 23 Union Sq., W., New York, N. Y.
- Goodwork Radio Cabinet Shop, 6715 S. Park Ave., Los Angeles, Cal.
- Goshen Novelty & Lamp Co., Goshen, Ind.
- Hagerstown Table Works, Hagerstown, Md.
- Hale Mfg. Co., F. E., Herkimer, N. Y.
- Hamilton Mfg. Co., Two Rivers, Wis.
- Harper Mfg. Co., Cassopolis, Mich.
- Herrman Furniture Co., H., 527 W. 34th St., New York, N. Y.
- Holbrook Co., Hudson, N. Y.
- Holtzman & Sons Co., Henry, 2212 E. Main St., Columbus, Ohio
- Hubbell, H. L., 40 Market Ave., Grand Rapids, Mich.  
Cataloged on page.....114
- Hughesville Furniture Co., Hughesville, Pa.
- Ideal Radio Cabinet Co., 281 Vermont St., Blue Island, Ill.
- International Equipment Co., 1326 Chestnut St., Kansas City, Mo.
- Interstate Woodworking Co., 46 Wooster St., New York, N. Y.
- Irving & Casson, 573 Boylston St., Boston, Mass.
- Irving Furniture Factories, 206 Lexington Ave., New York, N. Y.
- Iveyline—see Southern Toy Co.
- Jamestown Mantle Co., Falconer, N. Y.
- Jesse Mfg. Co., John O., Bryan, Ohio. "Bryan Leader" "Bryan Special"
- Jewell—see Ehlert Cabinet Co.
- Jordan Cabinet Corp., 56th St. & First Ave., Brooklyn, N. Y.
- Karlson,—see Carlson Cabinet Works
- Kelton Mfg. Co., Worcester, Mass.
- Klamor Mfg. Co., 1617 McGarry St., Los Angeles, Cal.
- Knickerbocker Talking Machine Co., 83 Broadway, New York, N. Y.
- Kramer Woodworking Co., 21st St. & Indiana Ave., Philadelphia, Pa.
- K. S. Cabinet Co., Caldwell Ave., Elmhurst, N. Y.
- Lakeside Supply Co., 73 W. Van Buren St., Chicago, Ill.
- Lamm, Arthur J., Stehentown, N. Y.
- Lauter Co., H., Indianapolis, Ind.
- Lenford, Inc., 408 W. 27th St., New York, N. Y.
- Lester Talking Machine Co., 5117 Wakefield St. (Germantown), Philadelphia, Pa.
- Lux Fibre Furniture Co., Waukesha, Wis.
- Manufacturers Phonograph Co., 95 Madison Ave., New York, N. Y. "Strand"
- Marstall Furniture Co., Henderson, Ky.
- Martz Cabinet Shop, 727 E. 48th St., Los Angeles, Cal.
- Master—see Ehlert Cabinet Co.
- Mastercraft—see Wolf Mfg. Industries
- M-B-G—see Express Body Corp.
- Merrell Sash & Door Co., Tom, 170 W. Ocean Blvd., Long Beach, Cal.
- Metropolitan Furniture House, Winstian's Blk., Hudson, N. Y.
- Michell Furniture Co., Robert, Second & John Sts., Cincinnati, Ohio
- Mohlenrich Furniture Co., 305 President St., Baltimore, Md.
- Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa.
- Mt. Wolf Furniture Co., Mt. Wolf, Pa.
- National Cabinet Co., 6 Cincinnati St., Dayton, Ohio
- Natural Voice Talking Machine & Radio Cabinet Co., Oneida, N. Y.
- Naylor Furniture Co., Grandville Ave. & Naylor St., Grand Rapids, Mich.
- Neat-Fit—see Express Body Corp.
- New York Wood Working Corp., 506 E. 19th St., New York, N. Y.
- Newcastle Radio Cabinet Co., 11th & Race Sts., Newcastle, Ind.
- Nicholson Furniture Co., K., Chase City, Va.
- Nicoll & Co., 190 Hooper St., San Francisco, Cal.
- Niemann Table Co., 77th & Cottage Grove Ave., Chicago, Ill.
- North Vernon Lumber Mills, North Vernon, Ind.
- North-Western Cabinet Co., Burlington, Iowa
- Ogen Sectional Cabinet Co., 700 Salem St., Lynchburg, Va.
- Orsenigo Co., 383 Madison Ave., New York, N. Y.
- Oyen, O. O., 1201 S. Fourth St., Minneapolis, Minn.
- Park Furniture Co., Rushville, Ind.
- Penco—see Penn Furniture Mfg. Co.
- Penn Furniture Mfg. Co., Montgomery, Pa. "Penco"
- Pennsylvania Lumber Sales Co., 337 S. Broad St., Philadelphia, Pa.
- Perfection Phonograph Co., 203 Lewis St., New York, N. Y. "Perfecto"
- Perfecto—see Perfection Phonograph Co.
- Perkins Phonograph Co., 831 N. Wood St., Chicago, Ill.
- Peters Furniture Co., Jos., 1427 N. 15th St., St. Louis, Mo.
- Philadelphia Radio Cabinet Makers, 28 N. Fifth St., Philadelphia, Pa.
- Plerison Co., Cedar & Pleasant Sts., Rockford, Ill. "American Beauty"
- Pilliod Lumber Co., Swanton, Ohio
- Platter Cabinet Co., North Vernon, Ind.
- Plaza Music Co., 10 W. 20th St., New York, N. Y. "Fine-Arts"
- Plymouth Radio & Phonograph Co., Plymouth, Wis.
- Pooley Co., 16th St. & Indiana Ave., Philadelphia, Pa.
- Prescott & Sons, R., Keeseville, N. Y.
- Price Co., Albert O., Coshocton, Ohio
- Quincy Quality Products Co., Queens Village, L. I., N. Y. "Baker"
- Radio Cabinet Corp., 720 Sixth St., Rockford, Ill.
- Radio-Master Corp. of America, 28th & Garfield Sts., Bay City, Mich. "Bordeaux"
- Rainbow Appliance Corp., 11 Hand St., Rochester, N. Y.
- Raleigh—see Stiles & Co.
- Recordion—see Columbia Mantel Co.
- Regal Woodworking Co., 372 Second Ave., New York, N. Y.
- R-E-Z Cabinet Co., 54 North St., Boston, Mass.
- Richard Mfg. Co., Winooski, Vt.
- Rockford Novelty Furniture Co., Rockford, Ill.
- Roussel Mfg. Co., Barnwall Ave. & Queens Blvd., Elmhurst, N. Y.
- Royal Radio Products Co., 628 Callohill St., Philadelphia, Pa. "Acorn"
- Rudell Co., Joseph E., 556 W. 52d St., New York, N. Y.
- Salisbury Bros. Furniture Co., Randolph, Vt.
- Salmon River Table Co., Pulaski, N. Y.
- Scheibner, C. O., Woodbridge, Mo.
- Schloss Bros., 801 E. 135th St., New York, N. Y.
- Schmeig-Hungate & Kotzian, 521 E. 72d St., New York, N. Y.
- Schroeder, H. L., 3512 Carroll Ave., Chicago, Ill.
- Schutz Bros., 152 Chambers St., New York, N. Y.
- Sextro Furniture Co., Wm., Dalton Ave. & Wilstrach St., Cincinnati, Ohio
- Sheets Mfg. Co., Wapakoneta, Ohio
- Sheboygan Novelty Co., Sheboygan, Wis.
- Showers Brothers Co. (Radio Division), 914 S. Michigan Ave., Chicago, Ill.
- Signal Electric Mfg. Co., 1915 Broadway, Menominee, Mich. "Signola Aristocrat"
- Signola Aristocrat—see Signal Electric Mfg. Co.
- Smith Corp., Franklin Trust Bldg., Philadelphia, Pa.
- Southern Toy Co., Hickory, N. Car. "Iveyline"
- Spaulding Mfg. Co., Grinnell, Iowa
- Square Deal Radio & Electric Co., 103 Leroy St., Fenton, Mich.
- Standard Cabinet Mfg. Co., 201 E. Canal St., Peru, Ind.
- Standard Plano Bench Mfg. Co., 1221 W. Lake St., Chicago, Ill.
- Steger & Sons Plano Mfg. Co., 238 S. Wabash Ave., Chicago, Ill.
- Stenola—see Stettner Phonograph Corp.
- Sternaman Mfg. Co., 441 Williams Blvd., Springfield, Ill.
- Stettner Phonograph Corp., 314 E. 75th St., New York, N. Y. "Stenola"
- Stiles & Co., H. A., 174 Portland St., Boston, Mass. "Raleigh" "Braeburn"
- Stradivara Co., Coshocton, Ohio
- Strand—see Manufacturers Phonograph Co.
- Straus Cabinet Works, Eugene, Baxter Ave. Station, Louisville, Ky.
- Super-Master—see Ehlert Cabinet Co.
- Superior Wood Working Co., Hancock & Berks Sts., Philadelphia, Pa.
- Tillotson Furniture Corp., Jamestown, N. Y.
- Trenton Wood Specialty Co., Stokes Ave. & P. R.R., Trenton, N. J.
- Udell Works, 28th St. at Barnes Ave., Indianapolis, Ind.
- Unico—see Unit Construction Co.
- Union Tool Chest Co., 19 Hand St., Rochester, N. Y.
- Unit Construction Co., 58th St. & Woodland Ave., Philadelphia, Pa. "Unico"
- United Cabinet Factories Corp., 1421 S. Michigan Ave., Chicago, Ill.
- United Radio & Mfg. Co., Gary, Ind.
- Universal Cabinet Co., Radio Ave., Greenville, Ohio
- Universal Phonograph & Radio Cabinet Mfg. Co., 823 Monroe St., St. Louis, Mo.
- Utility Cabinet Co., Waukesha, Wis.
- Valenti Art Furniture Mfg. Co., 1515 Atlantic Ave., Brooklyn, N. Y.
- Valley River Furniture Co., Murphy, N. C.
- Van Arnum Mfg. Co., Taylor St., Fort Wayne, Ind.
- Vitanola Talking Machine Co., American Furniture Mart Bldg., Chicago, Ill. "Vitaradio"



Vitaradio—see Vitanola Talking Machine Co.  
 Wabash Cabinet Co., Wabash, Ind.  
 W. A. L. Radio Cabinet Co., Fort Lee, N. J.  
 Wasmuth-Goodrich Co. (Oakdale), Peru, Ind.  
 Watertown Table & Furniture Co., Watertown, Pa.  
 Weis Mfg. Co., 201 Union St., Monroe, Mich.  
 West Branch Novelty Co., Milton, Pa.  
 Westchester Artistic Works, Greenwich, Conn.  
 Western Cable & Light Co., Baldwin, Wis.  
 Whetzal, Walter M. H., 37 Plum St., Westerville, Ohio  
 Wilhelm Furniture Co., Sturgis, Mich.  
 Windsor Furniture Co., 1420 Carroll Ave., Chicago, Ill.  
 Winship & Sons, W. W., Utica, N. Y.  
 Wizard Phonograph Co., 1977 Ogden Ave., Chicago, Ill.  
 Wolf Mfg. Industries, 319 N. Third St., Quincy, Ill. "Mastercraft"  
 Wolverine Furniture Co., 101 N. State St., Zeeland, Mich.  
 Wood Specialty Mfg. Co., 1166 Chase St., Camden, N. J.  
 Wright-De Coster Radio, Inc., 1466 Selby Ave., St. Paul, Minn.  
 York Furniture Mfg. Corp., York, Pa.  
 Young Mfg. Co., 725 N. Second St., Beloit, Wis.

**CABLE, Aerial—**

see Wire

**CABLE, Connecting Boxes —**

see Boxes, Cable Connecting

**CABLE, High Frequency—**

see Wire, Covered Stranded Enameled

**CABLE MARKERS—**

see Markers, Cable

**CABLE, Multiple—**

see Wires, Cabled Insulated

**CABLED INSULATED WIRES—**

see Wires, Cabled Insulated

**CABLED WIRES—**

see Wires, Cabled Insulated

**CABLES, Multiple Battery**

*Multiple Colored Insulated Wires cabled together with Terminals for connecting all Batteries to Set*

American Wireless Corp., 33 W. 17th St., New York, N. Y.  
 Appleby Radio Mfg. Co., 250 N. Juniper St., Philadelphia, Pa.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Birnbach Radio Co., 370 Seventh Ave., New York, N. Y. "Riga"  
 Cataloged on page.....43  
 Blue Ribbon—see Crescent Braid, Inc.  
 Columbia Radio Corp., 155 N. Union St., Chicago, Ill. "Multicolored"  
 Crescent Braid, Inc., Providence, R. I. "Blue Ribbon"  
 Cataloged on page .....44  
 DeJur Products Co., 199 Lafayette St., New York, N. Y.  
 De Luxe Sales Co., 163 Greene St., New York, N. Y.  
 Goodrich-Lenhart Mfg. Co., Hamburg, Pa.

Jones, Howard B., 614-18 S. Canal St., Chicago, Ill. "Multi-Plug"  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"  
 Multicolored—see Columbia Radio Corp.  
 Multi-Plug—see Jones, Howard B.  
 Muzada—see Mazda Radio Mfg. Co.  
 Packard Electric Co., Warren, Ohio  
 Cataloged on pages.....128 and 129  
 Philadelphia Insulated Wire Co., 200 W. Third St., Philadelphia, Pa.  
 Riga—see Birnbach Radio Co.  
 Runzel-Lenz Electric Mfg. Co., 1751 Northwestern Ave., Chicago, Ill.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 White, J. M., 1116 Olive St., Philadelphia, Pa.  
 Wilkins Electric Mfg. Corp., 52 Oranwagum St., White Plains, N. Y.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**CALIPERS AND DIVIDERS**

Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I. "Rex"  
 Consolidated Tool Works, 296 Broadway, New York, N. Y. "Pilot"  
 Fay—see Starrett Co.  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Lufkin-Rule Co., Hess Ave., Saginaw, Mich.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Pilot—see Consolidated Tool Works  
 Rex—see Brown & Sharpe Mfg. Co.  
 Starrett Co., L. S., 165 Crescent St., Athol, Mass. "Fay" "Yankee"  
 Union Tool Co., 48 E. River St., Orange, Mass.  
 Yankee—see Starrett Co.

**CAM SWITCHES—**

see Switches, Cam

**CAMBRIC TUBING—**

see Tnbing, Spaghetti

**CAPACITY STANDARDS—**

see Boxes, Standard Capacity

**CARDBOARD TUBES—**

see Tubes, Paper

**CARTONS, Fibre**

see Boxes, Corrugated Fibre

**CASTINGS, Aluminum**

Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.  
 Aluminum Foundry Co., 1208 Tremont St., Boston, Mass.  
 Atkinson Co., 575 Lyell Ave., Rochester, N. Y.  
 Atlas Brass Foundry Co., Columbus, Ohio  
 Brass & Bronze Castings Co., 6516 Carnegie Ave., S. E. Cleveland, Ohio  
 Bridgeport Deoxidized Bronze & Metal Co., 459 Iranistan Ave., Bridgeport, Conn.  
 City Brass Foundry Co., 6017 Superior Ave., Cleveland, Ohio  
 Cleveland Aluminum Castings Co., 901 Adison Rd., Cleveland, Ohio  
 Columbus Brass Co., 620 Dublin Ave., Columbus, Ohio  
 Curtis—see D'Este Co.  
 D'Este Co., Julian, 26 Canal St., Boston, Mass. "Curtis"  
 Harris & Co., Arthur, 212 N. Curtis St., Chicago, Ill.

Jefferson Brass Foundry, 62 Delevan Ave., Brooklyn, N. Y.  
 Keystone Bronze Co., 39th St., Pittsburgh, Pa.  
 Light Mfg. & Foundry Co., Union & Queen Sts., Pottstown, Pa.  
 Metal Mold Castings Co., 212 Winchester Ave., Buffalo, N. Y.  
 National Aluminum & Foundry Co., 1912 Frederick St., Racine, Wis.  
 Nute, McGehee, Geary Co., Chambersburg, Pa.  
 Permold Co., 6800 Grant Ave., Cleveland, Ohio.  
 Pioneer Brass Works, 1102 E. 23d St., Indianapolis, Ind.  
 Werra Aluminum Foundry Co., Waukesha, Wis.  
 Wisconsin Aluminum Foundry Co., 16th & Franklin Sts., Manitowoc, Wis.

**CASTINGS, Die**

Accurate Tool Works, Erie, Pa.  
 Albro—see Bronze Die Casting Co.  
 Alemite Die-Casting & Mfg. Co., 2640 Belmont Ave., Chicago, Ill.  
 Allied Die-Casting Corp., Skillman Ave., Honeywell & Buckley Sts., Long Island City, N. Y.  
 Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.  
 American Bearing Corp., 421 W. 11th St., Indianapolis, Ind.  
 Badger Die Casting Co., 157 Buffalo St., Milwaukee, Wis.  
 Barnhart Brothers & Spindler, Monroe & Throop Sts., Chicago, Ill.  
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 Bronze Die Casting Co., Franklin St. & Ohio River, Pittsburgh, Pa. "Albro"  
 Doshler Die-Casting Co., 505 Court St., Brooklyn, N. Y.  
 Franklin Die-Casting Corp., Gifford & Magnolia Sts., Syracuse, N. Y.  
 Grey Mfg. Co., C. M., 358 Central Ave., East Orange, N. J.  
 Hahn Mfg. Co., Harry W., 627 San Pedro St., Los Angeles, Cal.  
 Illinois Die Casting Co., 2318 Ogden Ave., Chicago, Ill.  
 Krone-Sebek Die Casting & Mfg. Co., 666 W. Austin Ave., Chicago, Ill.  
 Legler-Eilerman Co., 428 Bacon St., Dayton, Ohio  
 Marf Machine & Die Casting Co., 147 41st St., Brooklyn, N. Y.  
 Metal Mold Castings Co., 212 Winchester Ave., Buffalo, N. Y.  
 Michigan Smelting & Refining Co., 7885 Jos. Campau Ave., Detroit, Mich.  
 Milwaukee Die Casting Co., Milwaukee, Wis.  
 Paragon Die Casting Co., 3223 Ravenswood Ave., Chicago, Ill.  
 Parker White-Metal & Machine Co., Railroad & 23d Sts., Erie, Pa.  
 Perfection Die Casting Corp., 400 Lakeside Ave., N. W., Cleveland, Ohio  
 Phoenix Die Casting Co., 21 Illinois St., Buffalo, N. Y.  
 Precision Castings Co., Syracuse, N. Y.  
 Republic Die Casting Co., 138 Mott St., New York, N. Y.  
 Soss Mfg. Co., Grand Ave. & Bergen St., Brooklyn, N. Y.  
 Sterling Die Casting Co., 739 39th St., Brooklyn, N. Y.  
 Stewart Mfg. Corp., 4535 Fullerton Ave., Chicago, Ill.  
 Superior Die Casting Co., 874 E. 72d St., Cleveland, Ohio  
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**CAT WHISKER WIRE—**

see Wire, Special Cat Whisker

**CAT WHISKERS—**

see Whiskers, Cat

**CELLS, Photo-Electric**

*Selenium, Alkali-Metal and other light Sensitive Cells*

Photon Electric Corp., 342 Madison Ave., New York, N. Y. "Phototron"  
Phototron—see Photon Electric Corp.

**CELLS, Selenium—**

see Cells, Photo-Electric

**CENTER PUNCHES—**

see Punches, Center

**CHARGE INDICATING INSTRUMENTS—**

see Instruments, Charge Indicating  
also Hydrometers, Battery Testing

**CHARGER BATTERIES, Combined—**

see Batteries, Combined Rectifier and Storage

**CHARGERS, Battery—**

see Rectifiers, Battery Charging Bulb  
also Rectifiers, Battery Charging Electrolytic  
also Rectifiers, Battery Charging Vibrator

**CHEMICAL RECTIFIERS—**

see Rectifiers, Battery Charging Electrolytic

**CHOKE COILS—**

see Coils, Choke  
also Coils, Radio Frequency Choke

**CHOKES, Static—**

see Reducers, Static

**CIGAR LIGHTERS, Electric—**

see Lighters, Battery Cigar

**CLAMPS, Ground**

*Connectors for fastening Ground Wire Terminals to Grounding Medium*

All-Steel Equip. Co., Aurora, Ill.  
Amoroso Mfg. Co., 60-India St., Boston, Mass. "Nifty"  
Blackburn Specialty Co., 1965 E. 65th St., Cleveland, Ohio  
Bowers Mfg., Co. 162 W. 35th St., Los Angeles, Cal.  
Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
Cameron Appliance Co., Everett, Mass. "New York"  
Cemco—see Connecticut Electric Mfg. Co.  
Chase-Shawmut Co., Newburyport, Mass. "Shawmut"  
Connecticut Electric Mfg. Co., Bridgeport, Conn. "Cemco"  
Diamond-S—See Safety Electric Products Co.  
Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.  
Ekko Co., 111 W. Monroe St., Chicago, Ill.  
Fahnestock Electric Co., Long Island City, N. Y.  
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Gee Vee—see Gillette-Vibber Co.  
General Stamping Works, 243 E. 24th St., New York, N. Y.  
Giant Clamp Works, 331 W. Madison St., Chicago, Ill.  
Gillette-Vibber Co., 34 Maple St., New London, Conn. "Gee Vee"  
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"

Hastings Electrical Mfg. Co., 366 Broadway, New York, N. Y.

Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Suretite"

H & H—see Hart & Hegeman Mfg. Co.  
Hercules—see Florence Products Co.

Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y.

K-E—see Kirkman Engineering Corp.

Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"

Lenz—see Permanco Mfg. Corp.

Mast Lightning Rod Co. (Radio Accessory Div.), West Milton, Ohio

Mertz Specialty Co., 206 W. Tenth St., Wilmington, Del. "Saddle"

Midwest Electric Co., 227 W. Austin Ave., Chicago, Ill.

Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa

Mucher, John J., 109 Lafayette St., New York, N. Y.

Multi Electrical Mfg. Co., 1848 W. 14th St., Chicago, Ill.

Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill.

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New York—see Cameron Appliance Co.

Nifty—see Amoroso Mfg. Co.

Noscrew Hose Clamp Co., 50 Broad St., New York, N. Y.

Parkin Mfg. Co., Grand Ave., San Rafael, Cal.

Permanco Mfg. Corp., 814-16 Prospect Ave., Brooklyn, N. Y. "Lenz" "Premo"

Premo—see Permanco Mfg. Corp.

Raco—see Roach-Appleton Mfg. Co.

Rajah Co., Bloomfield, N. J.

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Reliable Electric Co., 3145 Carroll Ave., Chicago, Ill.

Roach-Appleton Mfg. Co., 3440 N. Kimball Ave., Chicago, Ill. "Raco"

Saddle—see Mertz Specialty Co.

Safety Electric Products Co., 1318 E. 16th St., Los Angeles, Cal. "Diamond-S."

Shawmut—see Chase-Shawmut Co.

Sherman Mfg. Co., H. B., 2 Barney St., Battle Creek, Mich.

Snap-Tite Clamp Co., 110 W. 14th St., New York, N. Y.

Super-Ball Antenna Co., Green Bay, Wis.

Superior Metal Products Co., Independence, Mo.

Suretite—see Heinemann Electric Co.

Waterbury Button Co., Waterbury, Conn.

Windman-Goldsmith, Inc., 399 East Ave., Perth Amboy, N. J.

Zierick Machine Works, F. R., 6 Howard St., New York, N. Y.

**CLARIFIERS—**

see Amplifiers, Radio Frequency

**CLEATS, Porcelain Wiring**

*Rectangular Split Insulators for mounting Lead-in Wires, Electric Light Circuits, etc.; for Porcelain Insulators—see Insulators. Porcelain*

Adamant Porcelain Co., East Liverpool, Ohio

Carey Ohio Porcelain Co., Carey, Ohio

Davidson Porcelain Co., East Liverpool, Ohio

Duggan—see Imperial Porcelain Works

Fedco—see Federal Porcelain Co.

Federal Porcelain Co., Carey, Ohio. "Fedco"

Findlay Electric Porcelain Co., Findlay, Ohio

General Porcelain Co., Camden Ave., S. S., Parkersburg, W. Va.

Illinois Electric Porcelain Co., Macomb, Ill.

Imperial Porcelain Works, Mulberry St. & New York Ave., Trenton, N. J. "Duggan"

Mogadore Insulator Co., Mogadore, Ohio

P. & S.—see Pass & Seymour, Inc.

Pass & Seymour, Inc., Solvay Station, Syracuse, N. Y. "P. & S."

Paulding Inc., John I., New Bedford, Mass.

Square D. Co., 6060 Rivard St., Detroit, Mich.

Trenle Porcelain Co., East Liverpool, Ohio

**CLEATS, Wiring—**

see Cleats, Porcelain Wiring

**CLIP BINDING POSTS—**

see Clips, Connecting

**CLIPS, Battery—**

see Clips, Electrical Test

**CLIPS, Connecting**

*Connection Devices providing quick removable action*

Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.

Fahnestock Electric Co., Long Island City, N. Y.

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Mucher, John J., 109 Lafayette St., New York, N. Y.

Teleradio Engineering Corp., 490 Broome St., New York, N. Y.

**CLIPS, Electrical Test**

*For use as Terminal Connectors on Wires for temporary test purposes*

Ajax—see Philmore Mfg. Co.

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.

Apco Mfg. Co., 1200 Eddy St., Providence, R. I.

Dusie—see McCorkle-Ensign Co.

Frankel Connector Co., 177 Hudson St., New York, N. Y.

Grip-tite—see Kodol Radio Corp.

Hartung Co., Charles F., 730 E. 61st St., Los Angeles, Cal.

Hyfrex—see Parker-Aeolus Corp.

Kodol Radio Corp., 507 E. Pearl St., Cincinnati, Ohio. "Grip-tite"

Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa

Mucher, John J., 109 Lafayette St., New York, N. Y.

McCorkle-Ensign Co., 428 Erie St., Elmira, N. Y. "Dusie"

Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.

Morse & Co., Frank W., 289 Congress St., Boston, Mass.

Mueller Electric Co., 1583 E. 31st St., Cleveland, Ohio

Ohio Parts Co., Colerain & Monmouth Aves., Cincinnati, Ohio

Parker-Aeolus Corp., 161 Grand St., New York, N. Y. "Hyfrex"

Peerless—see Hartung Co.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Pons, Eugene, 838 Lincoln Ave., Schenectady, N. Y.

Sheffield Trimming & Stamping Corp., 211 Centre St., New York, N. Y. "Stasco"

Sherman Mfg. Co., H. B., 2 Barney St., Battle Creek, Mich.

Stasco—see Sheffield Trimming & Stamping Corp.

Teleradio Engineering Corp., 490 Broome St., New York, N. Y.

Valley Electric Co., 3157 S. Kingshighway, St. Louis, Mo.

Waterbury Button Co., Waterbury, Conn.

Webster Electric Co., Racine, Wis.

Wilkins Electric Mfg. Corp., 52 Oranwun St., White Plains, N. Y.

**CLIPS, Grid-Leak—**

see **Holders, Grid-Leak**

**CLOCK SWITCHES—**

see **Switches, Clock-Controlled**

**CLOSED CIRCUIT JACKS—**

see **Jacks, Phone**

**CLOTH, Emery—**

see **Paper, Emery**

**CODE PRACTISE SETS—**

see **Transmitters, Automatic Code**  
also **Transmitters, Practise Code**

**COIL HOLDERS—**

see **Mountings, Coil**

**COIL IMPREGNATING MACHINES—**

see **Machines, Coil Impregnating**

**COIL MOUNTINGS—**

see **Mountings, Coil**

**COIL SATURATING MACHINES—**

see **Machines, Coil Impregnating**

**COIL SLIDERS—**

see **Sliders, Tuning Coil**

**COIL WINDERS—**

see **Winders, Coil**

**COIL WINDING FORMS—**

see **Forms, Coil Winding**

**COIL WINDING JIGS—**

see **Jigs, Coil Winding**

**COIL WINDING MACHINES—**

see **Machines, Coil Winding**

**COIL WINDINGS—**

see **Windings, Coil**

**COILS, Choke**

*Impedance Coils for use in filter circuits*

- Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.
- AmerChoke—see **American Transformer Co.**
- American Electric Co., 6401 S. State St., Chicago, Ill. "Burns."
- American Transformer Co., 178 Emmet St., Newark, N. J. "AmerChoke"  
Cataloged on page .....117
- Burns—see **American Electric Co.**
- Dongan Electric Mfg. Co., 2987 Franklin St., Detroit, Mich.
- Easton Coil Co., Centre & Mauch Chunk Sts., Easton, Pa.
- Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.
- Ford Radio & Mica Corp., 111 Bleecker St., New York, N. Y.  
Cataloged on page .....116

- General Coil Co., 25 Sterling St., Weymouth, Mass.
- General Radio Co., 30 State St., Cambridge, Mass.
- Jaeger-Carlson Mfg. Co., 161 Jamaica Ave., Brooklyn, N. Y.
- Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.
- Mayolian Radio Corp., 1991 Broadway, New York, N. Y.
- Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.
- National Co., 110 Brookline St., Cambridge, Mass.
- 9 Dal & Co., 717 N. Second St., Arkansas City, Kan.
- Precision Coil Co., 209 Centre St., New York, N. Y.
- Radio Corp. of America, 233 Broadway, New York, N. Y.
- Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio.
- Samson Electric Co., Canton, Mass.  
Cataloged on page .....119
- S-M—see **Silver-Marshall.**
- Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill., "S-M"
- Thordarson Electric Mfg. Co., Chicago, Illinois  
Cataloged on page .....120

**COILS, Coupler**

*Coupling Units usually carrying two equal stator windings and a single rotor winding; see also Variocouplers*

- Aero Products, Inc., 1772 Wilson Ave., Chicago, Ill.  
Cataloged on page .....46
- All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.
- Autodyne—see **Precision Coil Co.**
- Celco—see **Central Engineering Laboratories**
- Central Engineering Laboratories, 3345 N. Lincoln St., Chicago, Ill. "Celco"
- Columbia Radio Corp., 155 N. Union Ave., Chicago, Ill.
- Elkay—see **Langbein-Kaufman Radio Co.**
- Fischer & Co., G. H., 2604 Myrtle Ave., Glendale, N. Y.
- Imperial Radio Corp., 1945 Wabansia Ave., Chicago, Ill.
- Independent Radio Corp., Real Estate Trust Bldg., Phila., Pa. "R. B. C."
- Langbein-Kaufman Radio Co., Dept. T., 511 Chapel St., New Haven, Conn. "Elkay"
- Lincoln Radio Corp., 151 W. 28th St., New York, N. Y.
- Precision Coil Co., 209 Centre St., New York, N. Y. "Autodyne"
- R. B. C.—see **Independent Radio Corp.**
- Richardson Radio, Inc., Foster Ave. & Hulst St., Long Island City, N. Y.
- S-M—see **Silver-Marshall**
- Samson Electric Co., Canton, Mass.
- Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"
- Welty & Co., Wm. A., 36 S. State St., Chicago, Ill.

**COILS, Doughnut—**

see **Transformers, Tuned Radio Frequency**

**COILS, Duo-Lateral—**

see **Coils, Inductance**

**COILS, Honeycomb—**

see **Coils, Inductance**

**COILS, Inductance**

*Specially wound Interchangeable Coils used for varying Inductance of Tuning Circuits*

A-P—see **Acme Products Co.**

- Acme Products Co., 107 W. Canton St., Boston, Mass. "A-P"
- Aero Products, Inc., 1772 Wilson Ave., Chicago, Ill.
- Auman, F. W., 1218 Franklin Ave., Wilkensburg, Pa.
- Branston, Chas. A., 815 Main St., Buffalo, N. Y.
- Columbia Radio Corp., 155 N. Union St., Chicago, Ill.
- Coto-Coil Co., 87 Willard Ave., Providence, R. I. "Giant Grip" "Cotoco"
- Cotoco—see **Coto-Coil Co.**
- Crescent Radio Mfg. Co., 35 W. 19th St., New York, N. Y.
- Criss-Cross—see **Feri Radio Mfg. Co.**
- Dymac—see **Electrical Products Mfg. Co.**
- Eastern Coil Corp., 22 Warren St., New York, N. Y.
- Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"
- Feri Radio Mfg. Co., 1167 Bedford Ave., Brooklyn, N. Y. "Criss-Cross"
- Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"
- General Coil Co., 25 Sterling St., Weymouth, Mass.
- General Radio Co., 30 State St., Cambridge, Mass.
- General Windings Co., 214 Fulton St., New York, N. Y. "Gen-Win"
- Gen-Win—see **General Windings Co.**
- Giant Grip—see **Coto-Coil Co.**
- Ipswich Wireless Co., 260 St. Matthews St., Ipswich, Mass.
- Jaeger-Carlson Mfg. Co., 161 Jamaica Ave., Brooklyn, N. Y.
- Jalisco Mfg. Co., 229 E. Hennepin Ave., Minneapolis, Minn.
- Keystone Radio Laboratories, Inc., 154 Whiting St., Chicago, Ill.
- Lamm, Arthur J., Stephentown, N. Y.
- Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa
- National Radio Co., Forest Lake, Minn.
- Nazeley Co., J., 1824 Park Ave., Weehawken, N. J. "Turney"
- Noite Mfg. Co., 193 Plainfield Ave., Jersey City, N. J.
- Pacent Electric Co., 91 Seventh Ave., New York, N. Y.
- Perfection Radio Mfg. Co., 24th & Race Sts., Philadelphia, Pa.
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "REL"
- REL—see **Radio Engineering Laboratories**
- Royco—see **Royal Radio Products Co.**
- Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Royco"
- Sickles Co., F. W., 130 Union St., Springfield, Mass.
- Teleradio Engineering Corp., 490 Broome St., New York, N. Y.
- Terrace Radio Mfg. Corp., 26 Dock St., Yonkers, N. Y.
- Transcontinental Coil & Winding Co., 5 Kirk Pl., Newark, N. J.
- Turney—see **Nazeley Co.**
- Twin Coupler Co., 26 Cottage St., Poughkeepsie, N. Y.
- Un-X-Ld—see **Forman & Co.**

**COILS, Radio Frequency Choke**

*Specially Iron Wound Coils for resisting passage of Radio Frequency Currents*

- B-T—see **Bremer-Tully Mfg. Co.**
- Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"
- Cardwell Mfg. Corp., Allen D., 81 Prospect St., Brooklyn, N. Y.
- Goodwin Radio Corp., 205 Wooster St., New York, N. Y.
- Imperial Radio Corp., 1945 Wabansia Ave., Chicago, Ill.
- Radio Corp. of America, 233 Broadway, New York, N. Y.
- Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "REL"



**COILS, Radio Frequency Choke  
Continued**

REL — see Radio Engineering Laboratories.

Samson Electric Co., Canton, Mass.  
Cataloged on page .....119  
Shore Electric Co., 64 University Pl., New York, N. Y.

**COILS, Slide Tuning**

*Complete Coil assemblage where Tuning is varied by slide Contact*

Bunnell & Co., J. H., 32 Park Pl., New York, N. Y.

**COILS, Tuned Radio Frequency—**

see Transformers, Tuned Radio Frequency

**COILS, Tuning—**

see Coils, Inductance  
also Tuners and Tuning Coils

**COILS, Wireless Spark**

*Induction Coils for Amateur Spark Transmitting Sets*

Bunnell & Co., J. H., 32 Park Pl., New York, N. Y. "Mascot"

Marion Electrical Mfg. Co., 24 Cliff St., Jersey City, N. J.

Mascot—see Bunnell & Co.

**COMBINATION PILOT LIGHT SWITCHES—**

see Switches, Combination Pilot Light

**COMBINATION PLIERS—**

see Pliers, Combination

**COMBINATION RADIO-PHONOGRAPH SETS—**

see Sets, Combination Radio-Phonograph

**COMBINATION RECTIFIERS AND POWER—**

see Amplifiers, Power

**COMBINED A BATTERY CHARGERS AND B ELIMINATORS—**

see Rectifiers, Combined Battery Charging and Plate Current Supply

**COMBINED BATTERY CHARGING AND PLATE CURRENT SUPPLY RECTIFIERS—**

see Rectifiers, Combined Battery Charging and Plate Current Supply

**COMBINED CHARGER BATTERIES—**

see Batteries, Combined Rectifier and Storage

**COMBINED STORAGE BATTERIES—**

see Batteries, Combined Rectifier and Storage

**COMPARATORS—**

see Switches, Multiple Speaker Testing

**COMPARING SWITCHES—**

see Switches, Multiple Speaker Testing

**COMPOSITION BINDING POSTS—**

see Posts, Composition

**COMPOSITION DIALS—**

see Dials, Rubber  
also Insulation, Molders of Composition

**COMPOSITION HORNS—**

see Horns, Composition

**COMPOSITION INSULATION—**

see Insulation, Composition

**COMPOSITION INSULATION, Molders of—**

see Insulation, Molders of Composition

**COMPOSITION INSULATORS—**

see Insulators, Composition  
also Insulation, Molders of Composition

**COMPOSITION KNOBS—**

see Dials, Rubber

**COMPOSITION MOLDING MACHINES—**

see Machines, Plastic Molding

**COMPOSITION SOCKETS—**

see Sockets, Vacuum Tube

**COMPOSITION VARIO-METERS—**

see Variometers

**COMPOUNDS, Battery Sealing**

*Asphaltum or Rosin Base Waxes for Sealing Dry and Storage Batteries*

American Di-Electrics, Ltd., 466 E. Seventh St., Brooklyn, N. Y.

Barber Asphalt Co., Land Title Bldg., Philadelphia, Pa. "Genasco"

Cochrane Chemical Co., 432 Danforth Ave., Jersey City, N. J. "Lastic-Kote"

Condy & Co., 35th & Maplewood Ave., Chicago, Ill. "Faultless Seal" "Never-Bulge"

Dicks-Pontius Co., Dayton, Ohio

Dielectric Mfg. Co., 224 S. Vandeventer Ave., St. Louis, Mo.

Faultless Seal—see Condy & Co.

Genasco—see Barber Asphalt Co.

Globe Chemical Co., Murray Rd. & Big Four R.R., Cincinnati, Ohio

Great Lakes Thread & Yarn Co., 5133 Wesson Ave., Detroit, Mich.

Insulative Co., 1 Broadway, New York, N. Y.

Irvington Varnish & Insulator Co., Tremont Terrace, Irvington, N. J.

Lastic-Kote—see Cochrane Chemical Co.

Mitchell-Rand Mfg. Co., 18 Vesey St., New York, N. Y.

Never-Bulge—see Condy & Co.

Ruberoid Co., 95 Madison Ave., New York, N. Y.

Standard Asphalt & Rubber Co., 208 S. La Salle St., Chicago, Ill.

Zinsser & Co., Wm., 516 W. 59th St., New York, N. Y.

Zinsser & Co., Wm., 516 W. 59th St., New York, N. Y.

**COMPOUNDS, Impregnating—**

see Compounds, Insulating

**COMPOUNDS, Insulating**

*Compounds prepared with a Rubber, Asphaltum or other Base, to meet special dielectric requirements*

Ackurate Rubber Co., 25 Beaver St., New York, N. Y.

American Di-Electrics, Ltd., 466 E. Seventh St., Brooklyn, N. Y.

Bakelite Corp., 247 Park Ave., New York, N. Y.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Condy & Co., 35th & Maplewood Ave., Chicago, Ill.

Carboloid Products Corp., 245 Broadway, New York, N. Y.

Calman & Co., Emil, 110 William St., New York, N. Y.

Dielectric Mfg. Co., 224 S. Vandeventer Ave., St. Louis, Mo.

G. E.—see General Electric Co.

General Electric Co., Merchandise Department, Bridgeport, Conn. "G. E."

Great Lakes Thread & Yarn Co., 5133 Wesson Ave., Detroit, Mich.

Irvington Varnish & Insulator Co., Tremont Terrace, Irvington, N. J.

Mineralac Electric Co., 1045 Washington Blvd., Chicago, Ill.

Ozite—see Standard Underground Cable Co.

Roebbling's Sons, John A., Trenton, N. J.

Runzel-Lenz Electric Co., 1751 N. Western Ave., Chicago, Ill.

Standard Underground Cable Co., 17th & Pike Sts., Pittsburgh, Pa. "Ozite."

Standard Varnish Works, 443 Fourth Ave., New York, N. Y.

Sterling Varnish Co., Fulton Bldg., Pittsburgh, Pa.

Trotter & Co., E. T., 576 Johnson Ave., Brooklyn, N. Y.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

Zinsser & Co., Wm., 516 W. 59th St., New York, N. Y.

**COMPOUNDS, Soldering—**

see Flux, Soldering

**CONDENSER DIALS—**

see Dials, Metal  
also Dials, Rubber  
also Dials, Vernier

**CONDENSER ENDS—**

see Insulation, Molders of Composition

**CONDENSER PHONE PLUGS—**

see Plugs, Condenser Phone

**CONDENSERS, Air—**

see Condensers, Variable  
also Condensers, Variable Miniature

**CONDENSERS, Balancing—**

see Condensers, Neutralizing  
also Condensers, Variable Miniature

**CONDENSERS, Filter**

*High capacity by-pass Condensers for transmitting and Plate Battery Eliminator Circuits*

Acracon—see Condenser Corp. of America

Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y.

Cataloged on page .....47  
American Electric Co., 6401 S. State St., Chicago, Ill.

Concourse Electric Co., 286 E. 137th St., New York, N. Y.

Cataloged on page.....48  
Condenser Corp. of America, 25 Waverly Pl., New York, N. Y. "Acracon"

Cataloged on page.....48

Deutschmann, Tobe C., 46 Cornhill St., Boston, Mass.  
 Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y.  
 Cataloged on page.....49  
 Electrad, Inc., 428 Broadway, New York, N. Y.  
 Electric Specialty Co., Cresco, Iowa.  
 Electrodyne Co., 2378 Third Ave., New York, N. Y.  
 Cataloged on page.....49  
 Faradon—see Wireless Specialty Apparatus Co.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Igrad Condenser & Mfg. Co., 26 Avenue D, Rochester, N. Y.  
 Cataloged on page.....50  
 New York Coil Co., 338 Pearl St., New York, N. Y.  
 Polymet Mfg. Corp., 599 Broadway, New York, N. Y.  
 Cataloged on page.....72  
 Potter Mfg. Co., 2004 Sheridan Rd., North Chicago, Ill.  
 Powrad, Inc., 486 Johnson Ave., Brooklyn, N. Y.  
 Precision Coil Co., 209 Centre St., New York, N. Y.  
 Radio Receptor Co., 106 Seventh Ave., New York, N. Y.  
 Sangamo Electric Co., 50 Church St., New York, N. Y.  
 Cataloged on page.....51  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Western Electric Co., 100 E. 42d St., New York, N. Y.  
 Wireless Specialty Apparatus Co. (Jamaica Plain), Boston, Mass. "Faradon"  
 Cataloged on page.....52

**CONDENSERS, Fixed**

*Small units of fixed capacity for use as By-pass, Grid, and Blocking Condensers; for Variable Condensers—see Condensers, Variable; for Filter Condensers—see Condensers, Filter*  
 Acracon—see Condenser Corp. of America  
 Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y.  
 Cataloged on page.....47  
 Airex Co., 797 Greenwich St., New York, N. Y.  
 Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
 American Electric Co., 6401 S. State St., Chicago, Ill.  
 Buffalo—see DeJur Products Co.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.  
 Concourse Electric Co., 286 E. 137th St., New York, N. Y.  
 Cataloged on page.....48  
 Condenser Corp. of America, 25 Waverly Pl., New York, N. Y. "Acracon"  
 Daven Radio Corp., 158 Summit St., Newark, N. J. "Leakandenser"  
 DeJur Products Co., 199 Lafayette St., New York, N. Y. "Buffalo"  
 Deutschmann, Tobe C., 46 Cornhill St., Boston, Mass.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Micadons"  
 Cataloged on page.....49  
 E-Z—see Polymet Mfg. Corp.  
 Electrad, Inc., 428 Broadway, New York, N. Y.  
 Electric Specialty Co., Cresco, Iowa  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Electrodyne Co., 2378 Third Ave., New York, N. Y.  
 Cataloged on page.....49  
 Erla—see Electrical Research Laboratories  
 Faradon — see Wireless Specialty Apparatus Co.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Freshman Co., Chas., 240 W. 40th St., New York, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Gray Instrument Co., 64 W. Johnson St., (Germantown), Philadelphia, Pa.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Halcyon Insulator Co., 168 Front St., New York, N. Y.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Igrad Condenser & Mfg. Co., Rochester, N. Y.  
 Illini Electric Co., 605 N. Walnut St., Champaign, Ill.  
 Isograd—see Pilot Electric Mfg. Co.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Kondenser-Kit—see Peerless Radio Corp.  
 Leakandenser—see Daven Radio Corp.  
 Master Radio Instrument Co., 153 Wright St., Newark, N. J. "Masto"  
 Masto—see Master Radio Instrument Co.  
 Melrowsky Bros., 11 McPherson Pl., Jersey City, N. J.  
 Micadon — see Dubilier Condenser & Radio Corp.  
 Micamold Radio Corp., Brooklyn, N. Y.  
 Cataloged on page.....50  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 Cataloged on page.....124  
 National Electric Condenser Co. see Sangamo Electric Co.  
 New York Coil Co., 338 Pearl St., New York, N. Y.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Peerless Radio Corp., Newton Lower Falls, Mass. "Kondenser-Kit"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y. "Isograd"  
 Poly—see Polymet Mfg. Corp.  
 Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "Poly" "E-Z"  
 Cataloged on page.....72  
 Potter Mfg. Co., 2004 Sheridan Rd., North Chicago, Ill.  
 Premier Electric Co., 3806 Ravenswood Ave., Chicago, Ill.  
 Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola"  
 Sangamo Electric Co., 50 Church St., New York, N. Y. (Sole Distributors for National Electric Condenser Co., New Haven, Conn.)  
 Cataloged on page.....51  
 Schindler, Chas., 1401 W. Delaware Ave., Toledo, Ohio  
 Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio  
 Sumter Radio Mfg. Co., Telephone St., Sumter, S. C.  
 Thorola—see Reichmann Co.  
 Tridot Electric Co., 16 Hudson St., New York, N. Y.  
 Un-X-Ld—see Forman & Co.  
 Western Electric Co., 100 E. 42d St., New York, N. Y.  
 Wireless Specialty Apparatus Co. (Jamaica Plain), Boston, Mass. "Faradon"  
 Cataloged on page.....52  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**CONDENSERS, Grid—**

see Condensers, Fixed

**CONDENSERS, Mica—**

see Condensers, Fixed

**CONDENSERS, Neutralizing**

*Small adjustable low capacity Condensers for balancing Tube Capacity*  
 Amplex Instrument Laboratories, 88 W. Broadway, New York, N. Y.  
 B-T—see Bremer-Tully Mfg. Co.  
 Balcon—see Pacent Electric Co.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 Cady & Lundberg, Boston, Mass.  
 Canotex Co., Auburn, N. Y. "Isodon"  
 Condenserette—see Gardiner & Hepburn  
 Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasla"  
 Gardiner & Hepburn, Widener Bldg., Philadelphia, Pa. "Condenserette"  
 Hargraves, C. E. & H. T., 1103 Warwick Ave., Lakewood, R. I. "Neutra-Denser"  
 Cataloged on page.....87  
 Isodon—see Canotex Co.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 Cataloged on page.....124  
 Neutra-Denser—see Hargraves, C. E. & H. T.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y. "Balcon"  
 Rasla—see Davidson Radio Corp.  
 Reliable Parts Mfg. Co., 2819-33 Prospect Ave., Cleveland, Ohio  
 Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio  
 Turn-It Radio Sales, Inc., 71 Murray St., New York, N. Y.  
 X-L Radio Laboratories, 2424 Lincoln Ave. N., Chicago, Ill.

**CONDENSERS, Variable**

*Multi-plate Condensers with a direct control which provides Capacity Variation; for Neutralizing Condensers—see Condensers, Neutralizing; for small multi-plate Variable Condensers—see Condensers, Variable Miniature*  
 Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
 Acorn—see Royal Radio Products Co.  
 Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"  
 Cataloged on pages.....28 and 29  
 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
 Ambassador Sales Co., 108 Greenwich St., New York, N. Y.  
 American — see Pearl Radio Condenser Corp.  
 American Interstate Radio Service, 183 Greenwich St., New York, N. Y.  
 American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Kelford"  
 Amso Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
 Cataloged on page.....53  
 Audiola Radio Co., 430 S. Green St., Chicago, Ill.  
 B-T—see Bremer-Tully Mfg. Co.  
 Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Benjamin Electric Mfg. Co., 128 S. Sangamon St., Chicago, Ill.  
 Bestone—see Hyman & Co.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T" "Lifetime"  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.  
 Caldbeck Tool & Mfg. Co., 307 E. Third St., Des Moines, Iowa. "Demcal"

## CONDENSERS, Variable Continued

- Camfield Radio Mfg. Co., 829 Harrison St., Oakland, Cal.
- Cardwell Mfg. Corp., Allen D., 81 Prospect St., Brooklyn, N. Y.
- Case—see Indiana Mfg. & Electric Co.
- Certified—see Radio Condenser Co.
- Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.
- Chelton Electric Co., 4861 Stenton Ave., Philadelphia, Pa. "Midget" Radioscope" "Microfarad Jr."
- Commodore Metal Stamping Corp., 88 Walker St., New York, N. Y.  
Cataloged on page.....54
- Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn.
- Conrad Bros., 1609 Cooper Ave., Evergreen, N. Y.
- Counterdon—see Harkness Radio Corp.
- Crofoot—see Premier Electric Co.
- Cruver Mfg. Co., 2456 Jackson Blvd., Chicago, Ill. "Proudfoot"
- D. X. L. Radio Corp., 5769 Stanton Ave., Detroit, Mich.
- Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasla"
- DeForest Radio Co., Jersey City, N. J.
- DeJur Products Co., 199 Lafayette St., New York, N. Y.
- Demcal—see Caldbeck Tool & Mfg. Co.
- Die-Kast Condenser Corp., 25 W. 43d St., New York, N. Y.
- Doran & Sons, James C., 150 Chestnut St., Providence, R. I.
- Downey Insulation Co., 17th & Arch Sts., Philadelphia, Pa.
- Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Variadon"
- Dymac—see Electrical Products Mfg. Co.
- Eagle Condensers, Inc., 760 Bedford Ave., Brooklyn, N. Y.
- Eisemann Magneto Corp., 165 Broadway, New York, N. Y.
- Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"
- Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"
- Elgin Radio Corp., 67-69 N. State St., Elgin, Ill. "Elraco"
- Eloc Radio Corp., 88 E. Kinney St., Newark, N. J.
- Elraco—see Elgin Radio Corp.
- Erla—see Electrical Research Laboratories
- Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.
- Fett & Kimmel Co., Bluffton, Ohio
- Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"
- Freshman Co., Chas., 240 W. 40th St., New York, N. Y.
- Furnell Mfg. Corp., 24 Scott St., Newark, N. J.
- Gardiner & Hepburn, Widener Bldg., Philadelphia, Pa.
- General Instrument Corp., 479 Broadway, New York, N. Y. "Metralign"
- General Radio Co., 30 State St., Cambridge, Mass.
- Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.
- Gleason Corp., 559 W. Monroe St., Chicago, Ill. "James, Jr."
- Gormac Electric Co., 311 W. 59th St., New York, N. Y.
- Goyer Co., Willimantic, Conn. "Windham"  
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- Gray & Danielson Mfg. Co., 250 First St., San Francisco, Cal. "Remler"
- Grosser Sons Co., E., 55 Sudbury St., Boston, Mass. "Nol-Los"
- Haig & Haig Mfg. Co., 25 S. Water St., Rochester, N. Y. "Straitline"
- Hammerlund Mfg. Co., 424-38 W. 23 St., New York, N. Y. "Midget"
- Hanscom Radio Devices, Woonsocket, R. I., "S.C."  
Cataloged on page.....68
- Harkness Radio Corp., Kenneth, 727 Frelinghuysen Ave., Newark, N. J. "Counterdon"
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"
- Hartman Electric Mfg. Co., Mansfield, Ohio
- Harvey & Walton Mfg. Co., 32 E. Front St., Cincinnati, Ohio. "Ohio"
- Hayes Products Co., 1301 Fulton St., Grand Haven, Mich.
- Heath Radio & Electric Mfg. Co., 206 First St., Newark, N. J. "Radiant"
- Henninger Corp., A. F., 4509 Ravenswood Ave., Chicago, Ill. "Power-Plus"
- H & H—see Hart & Hegeman Mfg. Co.
- Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.
- Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"
- Illinois—see Johnson, Geo. F.
- Imperial Electric Mfg. Co., 58 Columbia St., Newark, N. J. "Puradyne"
- Indiana Mfg. & Electric Co., 530 Case Blk., Marion, Ind. "Case"
- James, Jr.—see Gleason Corp.
- Johnson, Geo. F., 625 Black Ave., Springfield, Ill. "Illinois"
- Kar Engineering Co., 79 E. 130th St., New York, N. Y.
- Karas Electric Co., 4040 N. Rockwell St., Chicago, Ill. "Orthometric"
- K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.
- Kelford—see American Specialty Co.
- Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.
- Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio
- Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.
- Lifetime—see Bremer-Tully Mfg. Co.
- Lincoln Radio Corp., 151 W. 28th St., New York, N. Y.
- Lombardi Radio Mfg. Co., 71 Minerva St., Derby, Conn.
- Lubree Mfg. Co., 210 Canal St., New York, N. Y.
- McCorkle-Ensign Co., 428 Erie St., Elmira, N. Y. "Red Jacket"
- Malone-Lemmon Products, Inc., 130 Yaynewood Pl., Plainfield, N. J. "Vernitrol"
- Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y. "Red Seal"
- Mar-Co—see Martin-Copeland Co.
- Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"
- Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"
- Meco—see Metropolitan Electric Co.
- Metralign—see General Instrument Corp.
- Metric Instrument Co., 141 Wooster St., New York, N. Y.
- Metropolitan Electric Co., Fine Arts Bldg., Des Moines, Iowa "Meco"
- Microfarad, Jr.—see Chelton Electric Co.
- Midget—see Chelton Electric Co.
- Midget—see Hammarlund Mfg. Co.
- Mignon Industries & Export Co.—see Niagara Sales Corp.
- Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.
- Morton, George, Stockton, Cal.
- Muzada—see Mazda Radio Mfg. Co.
- Na-ald—see Alden Manufacturing Co.
- National Co., 110 Brookline St., Cambridge, Mass.
- National Radio Co., Forest Lake, Minn.
- Nazeley Co., J., 1824 Park Ave., Weehawken, N. J.
- Nelslide—see Stag Sales Corp.
- Nelson Tool Co.—see Stag Sales Corp.
- New York Coil Co., 338 Pearl St., New York, N. Y.
- Niagara Sales Corp., 3 Waverly Pl., New York, N. Y. (Sole Distributors for Mignon Industries & Export Co., Rochester, N. Y.)
- Nol-Los—see Grosser Sons Co.
- Nu-Tone—see Perfection Machine & Mfg. Works
- Ohio—see Harvey & Walton Mfg. Co.
- Orthometric—see Karas Electric Co.
- Pacent Electric Co., 91 Seventh Ave., New York, N. Y.
- Pearl Radio Condenser Corp., 1033 Race St., Philadelphia, Pa. "Pearlico" "American"
- Pearlico—see Pearl Radio Condenser Corp.
- Perfection Machine & Mfg. Works, 314 Market St., Newark, N. J. "Nu-Tone"
- Perlesz Radio Mfg. Corp., 560 W. Congress St., Chicago, Ill.
- Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Power-Plus—see Henninger Corp.
- Precise Mfg. Co., 254 Mill St., Rochester, N. Y. "Synchrodenuser"  
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- Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Crofoot"
- Proudfoot—see Cruver Mfg. Co.
- Puradyne—see Imperial Electric Mfg. Co.
- R. P. C.—see Radio Products Corp.
- Radiant—see Heath Radio & Electric Mfg. Co.
- Radio Condenser Co., Thorne & Copewood Sts., Camden, N. J. "Certified"
- Radio Products Co., Westport, Conn. "R.P.C."
- Radioscope—see Chelton Electric Co.
- Ranger Coil Co., West Davenport, N. Y.
- Rasla—see Davidson Radio Corp.
- Rathbun Mfg. Co., 101 E. Third St., Jamestown, N. Y.
- Red Jacket—see McCorkle-Ensign Co.
- Red Seal—see Manhattan Electrical Supply Co.
- Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola"
- Reliance Die & Stamping Co., 501 N. La Salle St., Chicago, Ill.
- Remler—see Gray & Danielson Mfg. Co.
- Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Acorn"
- S.C.—see Hanscom Radio Devices  
Sumter, S. C.
- St. James Laboratories, 845 W. Washington Blvd., Chicago, Ill.
- Sampter Radio Corp., 34 35th St., Brooklyn, N. Y.
- Samson Electric Co., Canton, Mass.  
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- Shelbyville Radio Parts Mfg. Co., 809 S. Harrison St., Shelbyville, Ind.
- Signal Electric Mfg. Co., 1915 Broadway, Menomonee, Mich.
- Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"
- Simplex Radio Co., Rector & Main Sts., Philadelphia, Pa.
- S-M—see Silver-Marshall
- Stag Sales Corp., 105 W. 40th St., New York, N. Y. (Sole Distributors for Nelson Tool Co., New York, N. Y.) "Nelslide"
- Steinite Laboratories, Radio Bldg., Atchison, Kans.
- Straitline—see Haig & Haig Mfg. Co.
- Strand Electrical Apparatus, 170 Pleasant St., Walden, Mass.
- Stuckeman Bros., 204 Warrington Ave., Pittsburgh, Pa.
- Sumter Radio Mfg. Co., Telephone St., Sumter, S. C.
- Superola Radio Corp., 565 Broadway, New York, N. Y.
- Synchrodenuser—see Precise Mfg. Corp.
- Teleradio Engineering Corp., 490 Broome St., New York, N. Y.
- Thompson-Levering Co., 351-61 N. 57th St., Philadelphia, Pa.  
Cataloged on page.....56
- Thorola—see Reichmann Co.
- Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.
- Triangle Atlantic Corp., 349 Adams St., Brooklyn, N. Y.



United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio  
 United Radio Corp., 15 Caledonia St., Rochester, N. Y.  
 United Scientific Laboratories, Inc., 80 Fourth Ave., New York, N. Y.  
 U. S. Tool Co., Ampere, N. J.  
 Un-X-Ld—see Forman & Co.  
 Variadon—see Dubilier Condenser & Radio Corp.  
 Vernitrol—see Malone-Lemmon Products, Inc.  
 Viking Tool & Machine Co., 745 65th St., Brooklyn, N. Y. "Wade"  
 Voismeter Mfg. Co., 201 Smith Ave., Kirkwood, Mo.  
 Wade—see Viking Tool & Machine Co.  
 Wade Mfg. Co., 1819 Broadway, New York, N. Y.  
 Walmart Electric Mfg. Co., 308 Green St., Chicago, Ill.  
 Warren Radio Corp., 52 Vanderbilt Ave., New York, N. Y.  
 Waterbury Button Co., Waterbury, Conn.  
 Westwyre Co., 283 Elm St., Westfield, Mass.  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 White Co., O. C., 17 Hermon St., Worcester, Mass.  
 Windham—see Goyer Co.  
 Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
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 Wireless Shop, 150 Glendale Blvd., Los Angeles, Cal.  
 Wirt Co., 5221 Greene St., Philadelphia, Pa.  
 "X" Laboratories, 25 W. 45th St., New York, N. Y.

**CONDENSERS, Variable, Contract Manufacturers of—**

*Covering manufacturers who advertise in this publication*  
 Scovill Mfg. Co., Waterbury, Conn.  
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**CONDENSERS, Variable Miniature**

*Small adjustable low Capacity Condensers; for Standard Variable Condensers—see Condensers, Variable; for Neutralizing Condensers—see Condensers Neutralizing*  
 Gardiner & Hepburn, Widener Bldg., Philadelphia, Pa.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hammarlund Mfg. Co., 424-38 W. 33d St., New York, N. Y.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Precise Mfg. Corp., 254 Mill St., Rochester, N. Y.  
 Cataloged on page.....121  
 Radio Condenser Co., Thorne & Copewood Sts., Camden, N. J.  
 Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "REL"  
 REL — see Radio Engineering Laboratories  
 S-M—see Silver-Marshall  
 Samson Electric Co., Canton, Mass.  
 Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
 Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
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**CONE GROUNDS—**  
 see Grounds, Cone and Cylinder

**CONE PAPER—**  
 see Paper, Cone

**CONNECTING BOXES, Cable—**  
 see Boxes, Cable Connecting

**CONNECTING CLIPS—**  
 see Clips, Connecting

**CONNECTOR PLUGS, Multiple—**  
 see Plugs, Multiple Connector

**CONNECTORS, Battery**  
 Birnback Radio Co., 370 Seventh Ave., New York, N. Y.  
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 Breaznell, J. H., 136 Livingston St., Brooklyn, N. Y.  
 Packard Electric Co., Warren, Ohio  
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 Sherman Mfg. Co., H. B., 3 Barney St., Battle Creek, Mich.

**CONNECTORS, Bus Bar—**  
 see Connectors, Solderless Bus-Wire

**CONNECTORS, Multiple Phone—**  
 see Boxes, Multiple Phone  
 also Plugs, Multiple Phone

**CONNECTORS, Solderless Bus-Wire**  
*Small Metal Devices in form of T's, L's, etc., for connecting Radio Parts without soldering*  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla—see Electrical Research Laboratories  
 Morsing—see Newark Watch Case Material Co.  
 Newark Watch Case Material Co., 15 Ward St., Newark, N. J. "Morsing"

**CONNECTORS, Solderless Lead-in**  
*For jointing Aerials and Lead-in Wire without soldering*  
 Butts, C. W., 605 Orange St., East Orange, N. J. "Eureka"  
 Doolan Mfg. Corp., J. F., 36-42 W. 47th St., New York, N. Y. "Tip Top"  
 Eureka—see Butts, C. W.  
 Fahnestock Electric Co., Long Island City, N. Y.  
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 Gillette—see Park Metalware Co.  
 Park Metalware Co., Orchard Park, N. Y. "Gillette"  
 Tip Top—see Doolan Mfg. Corp.

**CONSOLES—**  
 see Cabinets, Wood

**CONTACT POINTS—**  
 see Platinum

**CONTACTS, Platinum—**  
 see Platinum

**CONTACTS, Switch**  
*Small Machine Screws with smooth contact Faces used for Panel Lever Switches and Stops*  
 Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Chapman Machine Co., Terryville, Conn.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla — see Electrical Research Laboratories  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"  
 Mohawk Corp., of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Muzada—see Mazda Radio Mfg. Co.  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Waterbury Button Co., Waterbury, Conn.

**CONTINUOUS HINGES—**  
 see Hinges, Continuous

**CONTINUOUS WAVE POWER TRANSFORMERS—**  
 see Transformers, Power

**CONTROLS, Micrometer—**  
 see Attachments, Vernier  
 also Dials, Vernier

**COPPER CLAD ANTENNA WIRE—**  
 see Wire, Copper Clad Steel

**COPPER RIBBON—**  
 see Wire, Flat or Strip Copper Antenna

**COPPER RIVETS—**  
 see Rivets, Brass and Copper

**COPPER, Rod—**  
 see Brass and Copper, Sheet

**COPPER, Sheet—**  
 see Brass and Copper, Sheet

**COPPER TUBING—**  
 see Tubing, Brass and Copper

**COPPER WASHERS—**

see Washers, Brass and Copper

**COPPERS, Electric Soldering—**

see Irons, Electric Soldering

**COPPERS, Soldering**Fahlberg Mfg. Co., E. D., Madison, Wis.  
Lenk Mfg. Co., 30 Merrimac St., Boston, Mass.

Peck, Stow &amp; Wilcox Co., 217 Centre St., Southington, Conn. "Pexto"

Pexto—see Peck, Stow &amp; Wilcox Co.

**CORD, Flexible Lamp***Flexible twin conductors cotton served, rubber covered, braided and then twisted or paralleled with an additional silk or cotton braid.*

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American Electrical Works, Phillipsdale, R. I. "Amelectric"

American Fabric Co., 46 Baker St., Providence, R. I.

American Steel &amp; Wire Co., 208 S. La Salle St., Chicago, Ill.

Bishop Wire &amp; Cable Corp., 420 E. 25th St., New York, N. Y.

Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"

Corwico—see Cornish Wire Co.

Davis-Jones Insulated Wire Co., Pawtucket, R. I.

Eagle—see Marion Insulated Wire &amp; Rubber Co.

Essex Electric Wire Co., 87 Summit St., Newark, N. J.

Habrshaw Cable &amp; Wire Co., 10 E. 43d St., New York, N. Y.

Liberty—see National Metal Molding Co.

Marion Insulated Wire &amp; Rubber Co., Marion, Ind. "Eagle"

National Metal Molding Co., Fulton Bldg., Pittsburgh, Pa. "Libert"

Philadelphia Insulated Wire Co., 200 N. Third St., Philadelphia, Pa.

Providence Insulated Wire Co., 58 Waldo St., Providence, R. I.

Rockbestos Products Corp New Haven, Conn.

Rome Wire Co., Rome, N. Y.

**CORD, Flexible Telephone—**

see Cord, Flexible Tinsel

**CORD, Flexible Tinsel***Telephone Cords constructed of Tinsel Wire for flexibility; for Telephone Cords—see Cords, Telephone*

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Kellogg Switchboard &amp; Supply Co., 1066 W. Adams St., Chicago, Ill.

Philadelphia Insulated Wire Co., 200 N. Third St., Philadelphia, Pa.

**CORD, Lamp—**

see Cord, Flexible Lamp

**CORD, Telephone—**

see Cord, Flexible Tinsel

**CORD TIP JACKS—**

see Jacks, Cord Tip

**CORD TIP PLUGS—**

see Plugs, Cord Tip

**CORD TIPS—**

see Tips, Cord

**CORDS, Battery—**

see Cables, Multiple Battery

**CORDS, Extension***Flexible Cords for operating distant Head-Sets or Loud Speakers*

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"

American Fabric Co., 46 Baker St., Providence, R. I.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Birnbach Radio Co., 370 Seventh Ave., New York, N. Y.

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Blue Ribbon—see Crescent Braid, Inc.

B.M.S.—see Brooklyn Metal Stamping Corp.

Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.

Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "B.M.S."

Crescent Braid, Inc., 289 Thurbers Ave., Providence, R. I. "Premier" "Blue Ribbon"

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DeJur Products Co., 199 Lafayette St., New York, N. Y.

De Luxe Sales Co., 163 Greene St., New York, N. Y.

E-Z—see Polymet Mfg. Corp.

Four Way Co., 29 Worthington St., Springfield, Mass.

Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.

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General Accessories Co., 135 Liberty St., New York, N. Y.

Mar-Co—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"

Maxwell Mfg. Co., 170 Third St., Chelsea, Mass.

Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"

Morse Co., Frank W., 289 Congress St., Boston, Mass.

Muzada—see Mazda Radio Mfg. Co.

Na-ald—see Alden Manufacturing Co.

Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "E-Z"

Cataloged on page.....72

Premier—see Crescent Braid, Inc.

Runzel-Lenz Electric Mfg. Co., 1751 Northwestern Ave., Chicago, Ill.

Saturn Mfg. &amp; Sales Co., 48 Beekman St., New York, N. Y.

Wilkins Electric Mfg. Corp., 52 Oranwungum St., White Plains, N. Y.

**CORDS, Flexible—**

see Cords, Telephone

**CORDS, Multiple Battery—**

see Cables, Multiple Battery

**CORDS, Receiver—**

see Cords, Telephone

**CORDS, Telephone***Flexible Wires with Terminal Connectors for connecting Head Sets or Loud Speakers to Radio Receivers*

Ajax—see Philmore Mfg. Co.

American Electric Co., 6401 S. State St., Chicago, Ill.

American Fabric Co., 46 Baker St., Providence, R. I.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Birnbach Radio Co., 370 Seventh Ave., New York, N. Y.

Cataloged on page.....43

Bisby Mfg. Co., 54 Warren St., New York, N. Y.

Blue Ribbon—see Crescent Braid Inc.

Crescent Braid Inc., 289 Thurbers Ave., Providence, R. I. "Blue Ribbon"

De Luxe Sales Co., 163 Greene St., New York, N. Y.

Duro—see McEvoy, C. H.

Gavitt Mfg. Co., West Brookfield, Mass.

Goodrich-Lenhart Mfg. Co., Hamburg, Pa.

Kellogg Switchboard &amp; Supply Co., 1066 W. Adams St., Chicago, Ill.

Leich Electric Co., Genoa, Ill.

McEvoy, C. H., 430 Broadway, Lowell, Mass. "Duro"

Packard Electric Co., Warren, Ohio

Cataloged on pages 128 and 129

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Runzel-Lenz Electric Mfg. Co., 1751 Northwestern Ave., Chicago, Ill.

Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.

Wilkins Electric Mfg. Corp., 52 Oranwungum St., White Plains, N. Y.

**CORDS, Tinsel—**

see Cords, Telephone

**COTTON COVERED ENAMELED MAGNET WIRE—**

see Wire, Enameled Magnet

**COTTON COVERED WIRE—**

see Wire, Cotton or Silk Covered Magnet

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Braunsdorf-Mueller Co., 205 Madison St., Elizabeth, N. J.

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"

Bro-Mac-O—see Brown, McPherson &amp; Co.

Brown, McPherson &amp; Co., Wallingford, Conn. "Bro-Mac-O"

Brubaker &amp; Bros., W. L., 50 Church St., New York, N. Y.

Cincinnati Tool Co., 1951 Waverly Ave., Cincinnati, Ohio

Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio

Deuse, J. S., Chester, Conn. "Rose"

Goodell-Pratt Co., Wells St., Greenfield, Mass.

Greenfield Tap and Die Corp., Sanderson St., Greenfield, Mass.

Kilborn &amp; Bishop Co., 196 Chapel St., New Haven, Conn.

Mayhew Steel Products, Inc., Shelburne Falls, Mass.

Morse Twist Drill &amp; Machine Co., 163 Pleasant St., New Bedford, Mass.

National Twist Drill &amp; Tool Co., 6522 Brush St., Detroit, Mich.

Pratt &amp; Whitney Co., Hartford, Conn.

Radio-Lectric—see Bridgeport Hardware Mfg. Corp.

Rose—see Deuse, J. S.

Snell Mfg. Co., Fiskdale, Mass.

Standard Tool Co., 6900 Central Ave., Cleveland, Ohio

Starrett Co., L. S., 165 Crescent St., Athol, Mass.

Stevens &amp; Co., 375 Broadway, New York, N. Y.

Swan Co., Jas., 279 Bank St., Seymour, Conn.  
 Syracuse Twist Drill Co., 936 S. Townsend St., Syracuse, N. Y.  
 Threadwell Tool Co., 15 Arch St., Greenfield, Mass.  
 Union Twist Drill Co., 70 Monroe St., Athol, Mass.  
 Whiteman & Barnes Mfg. Co., E. Exchange St., Akron, Ohio

**COUPLERS, Oscillator—**

see Coils, Coupler

**COUPLER COILS—**

see Coils, Coupler

**COUPLERS, Vario—**

see Variocouplers

**COVERED STRANDED ENAMELED WIRE—**

see Wire, Covered Stranded Enameled

**CRYSTAL CUPS—**

see Holders, Crystal

**CRYSTAL DETECTORS—**

see Detectors, Crystal

**CRYSTAL HOLDERS—**

see Holders, Crystal

**CRYSTAL SETS—**

see Sets, Crystal

**CRYSTALS, Detector**

*Mounted or Unmounted Detector Minerals; for Crystal Detectors—see Detectors, Crystal*

Adbrin Laboratories, 469 Broad St., Newark, N. J.

Airia Crystal Co., 1402 Seventh Ave., Moline, Ill.

Ajax—see Philmore Mfg. Co.

Argentine Laboratories, 116 N. Daly St., Los Angeles, Cal.

Atomite—see Keystone Products Co.

Bisby Mfg. Co., 54 Warren St., New York, N. Y. "Supertone"

Black Diamond—see Classy Specialty Co.

B-Metal Refining Co.—see Star Crystal Co.

Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.

Brady, J. J., Monadnock Bldg., San Francisco, Cal.

Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.

Brownlie & Co., Roland, 21 Saunders St., Medford, Mass.

C-R-P—see Cherington Radio Products, Inc.

California Radio Minerals, 904 Oak Grove Ave., Burlingame, Cal.

Case Toy & Sales Co., 7250 Kelley St., (Homewood Sta.), Pittsburgh, Pa.

Celerundum Radio Products Co., 115 Federal St., Boston, Mass.

Cheever Co., William E., 1167 Broad St., Providence, R. I. "Wecco"

Cherington Radio Products, Inc., 107 Madison St., Waukegan, Ill. "C-R-P"

Chief Radio Crystal Co., 608 E. Fifth St., Los Angeles, Cal.

Christy Radio Crystal Co., 141 E. Fourth St., Cincinnati, Ohio

Classy Specialty Co., 1422 Providence St., Cincinnati, Ohio "Black Diamond"

Clearco Crystal Co., Idaho Springs, Colo.

Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Dutec"

Durban Electric Co., 400 N. Laramie Ave., Chicago, Ill.

Dutec—see Dubilier Condenser & Radio Corp.

D-X—see Specialty Service Co.

DX-Alena—see Everett Radio Co.

El Picacho Mining Co., Las Vegas, Nev.

Everett Radio Co., 5207 Dorchester Ave., Chicago, Ill. "DX-Alena"

F—see Foote Radio Corp.

Foote Radio Corp., 1609 Summer St., Philadelphia, Pa. "F"

Ford Co., K. N., 1411 Alta Vista Blvd., Los Angeles, Cal. "Radiogrand"

Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"

Freshman Co., Chas., 240 W. 40th St., New York, N. Y.

Gold Medal—see Morris, Walter C.

Gordon Radio & Electric Mfg. Co., 1610 Fourth Ave., Seattle, Wash.

Hargraves, C. E. & H. T., 1103 Warwick Ave., Lakewood, R. I. "Silver Dome"

Hatfield & Son, H. D., 4655 Hollywood Blvd., Hollywood, Cal. "Mexican"

Hearwell Electric Co., 53 Devonshire St., Boston, Mass.

James—see Star-King Co.

Johnson Radio Co., Bernays, 481 Broad St., Newark, N. J.

Kelso National Mining Co., Georgetown, Colo.

Keystone Products Co., 304 Gardenia Ave., Royal Oak, Mich. "Atomite"

Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal. "Lemco"

Lemco—see Lee Electric & Mfg. Co.

McCarthy Radio Products Co., 3608 N. 12th St., Tacoma, Wash. "Mount Tacoma"

Melodian Laboratories, Independence, Mo. "Melody King"

Melody King—see Melodian Laboratories

Mexican—see Hatfield & Son

Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y. "Gold Medal" "Silver Medal"

Mount Tacoma—see McCarthy Radio Products Co.

MPM Sales Co., 247 S. Central Ave., Los Angeles, Cal.

Neverfall—see Post Trading Co.

Novelty Radio Mfg. Co., 204 S. Fourth St., St. Louis, Mo. "Stayput"

Pacific Screw Co., 645 N. E. 53d St., Portland, Ore. "Silverblend"

Parkin Mfg. Co., Grand Ave., San Rafael, Cal.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Phoenix Radio Laboratory, 114 S. Central Ave., Phoenix, Ariz.

Post Trading Co., 33 W. 42d St., New York, N. Y. "Neverfall"

Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.

Radiogrand—see Ford Co.

Radio Minerals Co., 525 Woodward Ave., Detroit, Mich.

Reinhardt & Co., E. F., 2135 Pine St., St. Louis, Mo. "Silverblend"

Roll-O-Radio Corp., 35 W. Pearl St., Cincinnati, Ohio

R-U-F Products Co., 319 Glenmore Ave., Brooklyn, N. Y. "Wonder"

Rusonite Products Corp., 15 Park Row, New York, N. Y.

Shamrock Harkness—see Shamrock Mfg. Co.

Shamrock Mfg. Co., 196 Waverly Ave., Newark, N. J. "Shamrock Harkness"

Silverblend—see Pacific Screw Co.

Silverblend—see Reinhardt & Co.

Silver Dome—see Hargraves, C. E. & H. T.

Silver Medal—see Morris, Walter C.

Specialty Service Co., 575 Atlantic Ave., Brooklyn, N. Y. "D-X"

Star Crystal Co., 525 Woodward Ave., Detroit, Mich. (Sole Distributors for B-Metal Refining Co., Detroit, Mich.)

Star-King Co., 200 Davis St., San Francisco, Cal. "James"

Stayput—see Novelty Radio Mfg. Co.

Steinitz Laboratories, Radio Bldg., Atchison, Kans.

Supertone—see Bisby Mfg. Co.

Thoma Radio Co., J. H., 1435 Beaver Ave., Pittsburgh, Pa.

Tip-Top Crystal Co., 216 Market St., Newark, N. J.

T. N. T. Radio Products Co., 1344 Fillmore St., San Francisco, Cal.

United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio

Un-X-Ld—see Forman & Co.

W. C.—see Westville Mfg. Co.

Wecco—see Cheever Co.

Westville Mfg. Co., 705 Chestnut St., Philadelphia, Pa. "W. C."

Wilmat Co., Union League Bldg., Los Angeles, Cal.

Wonder—see R-U-F Products Co.

Wonder State Crystal Co., Bathurst Bldg., Little Rock, Ark.

**CRYSTALS, Fixed—**

see Detectors, Crystal

**CRYSTALS, Mounted—**

see Crystals, Detector

**CRYSTALS, Unmounted—**

see Crystals, Detector

**CUPS, Crystal—**

see Holders, Crystal

**CURRENT TRANSFORMERS—**

see Transformers, Power

**CUSHIONING FELT—**

see Felt, Sheet

**CUSHIONS, Rubber Phone**

*Soft rubber Ear Muffs for insertion over Head Set Receivers to shut out external noises*

Ajax—see Philmore Mfg. Co.

Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio

May Rubber Co., 826 Arch St., Philadelphia, Pa. "Radiphone"

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Radiphone—see May Rubber Co.

**CUSHIONS, Rubber Set**

*For cushioning Radio Sets, Parts or Equipment against Vibration*

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"

Na-ald—see Alden Mfg. Co.

Neodyne Associates, 165 Broadway, New York, N. Y. "Radiofeet"

Radiofeet—see Neodyne Associates

Spuntex Products Co., 329 W. Baltimore St., Baltimore, Md.

**CUSHIONS, Rubber Socket**

*Soft rubber cushions for mounting on Sockets in order to deaden transmission of noises*

General Radio Co., 30 State St., Cambridge, Mass.

Illinois Radio Co., 800 S. Fourth St., Springfield, Ill.



**CUSHIONS, Telephone Ear—**

see Cushions, Rubber Phone

**CUT-IN RELAYS—**

see Relays, Cut-in

**CUT-OUT RELAYS—**

see Relays, Cut-in

**CUTTERS, Panel Hole***Rotary Hack Saws and expanding Cutters for cutting Holes in Panels for Instruments*

Able Tool &amp; Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"

Atec—see Able Tool &amp; Engineering Co. Cincinnati Tool Co., 1951 Waverly Ave., (Norwood), Cincinnati, Ohio

General Hardware Mfg. Co., 34 Warren St., New York, N. Y. "Pawood"

Hugue Mfg. Co., 146 Broadway, Brooklyn, N. Y.

Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.

Jiffy—see Koch &amp; Co.

Koch &amp; Co., Paul W., 19 S. Wells St., Chicago, Ill. "Jiffy"

Little Wonder—see Poeppel Novelty Works

Misener &amp; Irving Mfg. Co., 326 E. Genesee St., Syracuse, N. Y.

Pawood—see General Hardware Mfg. Co.

Poeppel Novelty Works, 1800 Berenice Ave., Chicago, Ill. "Little Wonder"

Radiogem Corp., 66 W. Broadway, New York, N. Y. "Ragemco"

Ragemco—see Radiogem Corp.

Stevens &amp; Co., 375 Broadway, New York, N. Y.

**CUTTING, Panel—**

see Panels, Cutters, Drillers and Engravers of

**CYLINDER GROUNDS—**

see Grounds, Cone and Cylinder

**D. C. BATTERY CHARGERS—**

see Resistors, Battery Charging

**DECALCOMANIA TRANSFERS—**

see Transfers, Decalcomania

**DESKS, Radio—**

see Tables, Radio

**DETECTOR TUBES—**

see Tubes, Vacuum

**DETECTORS, Crystal***Complete Crystal Detector Unit. Fixed or Variable: for Mounted or Unmounted Detector Crystals—see Crystals, Detector*

Advance Electric Co., 1260 W. Second St., Los Angeles, Cal.

Airex Co., 797 Greenwich St., New York, N. Y.

Ajax—see Philmore Mfg. Co.

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.

Argentine Laboratories, 116 N. Daly St., Los Angeles, Cal.

Baker-Smith Co., New Call Bldg., San Francisco, Cal. (Sole Distributors for G. &amp; S. Radio Research Laboratory, Los Angeles, Cal.)

Bisby Mfg. Co., 54 Warren St., New York, N. Y. "Supertone"

B-Metal Refining Co.—see Star Crystal Co.

B. M. S.—see Brooklyn Metal Stamping Corp.

Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.

Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.

Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "B.M.S."

Brownlie &amp; Co., Roland, 21 Saunders St., Medford, Mass.

Bug—see Hearwell Electric Co.

Bunnell &amp; Co., J. H., 32 Park Pl., New York, N. Y. "Jove"

California Radio Minerals, 904 Oak Grove Ave., Burlingame, Cal.

California Radio Products Co., Los Angeles, Cal. "Calrad"

Calrad—see California Radio Products Co.

Carborundum Co., Buffalo &amp; 18th Sts., Niagara Falls, N. Y.

Celerundum Radio Products Co., 115 Federal St., Boston, Mass. "De-Tex-It"

Cheever Co., William E., 1167 Broad St., Providence, R. I. "Wecco"

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Chelton Electric Co., 4861 Stenton Ave., Philadelphia, Pa.

Crystalstat—see Star Crystal Co.

Crystector—see Welty &amp; Co.

Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasla"

De-Tex-It—see Celerundum Radio Products Co.

Dixie Distance Crystal Co., Covington, Ky.

Electric City Novelty &amp; Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"

Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"

Electro-Chemical Laboratories, 461 Central Ave., Jersey City, N. J.

Erisman Laboratories, 3785 Broadway, New York, N. Y. "Pyratek"

Erla—see Electrical Research Laboratories.

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Flash Radio Corp., 127 Federal St., Boston, Mass.

Flynn—see United Metal Stamping &amp; Radio Co.

Foote Radio Corp., 1609 Summer St., Philadelphia, Pa. "Variotector" "Footector"

Foote-Tector—see Foote Radio Corp.

Ford Co., K. N., 1411 Alta Vista Blvd., Los Angeles, Cal. "Radiogrand"

Freshman Co., Chas., 240 W. 40th St., New York, N. Y.

Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.

G. &amp; S. Radio Research Laboratory, 1269 Cochran Ave., Los Angeles, Cal.

Haller, W. B., 2100 Sarah St., S. S., Pittsburgh, Pa. "Hallerio"

Hallerio—see Haller, W. B.

Hargraves, C. E. &amp; H. T., 1103 Warwick Ave., Lakewood, R. I. "Silver Dome"

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Harkness Radio Corp., Kenneth, 727 Frelinghuysen Ave., Newark, N. J.

Harvey &amp; Walton Mfg. Co., 32 E. Front St., Cincinnati, Ohio

Haydon &amp; Haydon, 73 Warren St., New York, N. Y.

Hearwell Electric Co., 53 Devonshire St., Boston, Mass. "Bug"

Jove—see Bunnell &amp; Co.

Key to the Air—see Stafford Radio Co.

Keystone Products Co., 304 Gardenia Ave., Royal Oak, Mich. "Nion"

Lebnite—see Palmer &amp; Palmer

Lincoln Mfg. Co., 1149 Santee St., Los Angeles, Cal.

Lip-Tone Detector Co., 15 Central Ave., Revere, Mass.

Los Angeles Sales Co., 1211 W. Sixth St., Los Angeles, Cal.

Mar-Co—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"

Melodian Laboratories, Independence, Mo. "Melody King"

Melody King—see Melodian Laboratories.

Miller Radio Co., A. H., 5721 Appoline St., Detroit, Mich.

Nion—see Keystone Products Co.

Novelty Radio Mfg. Co., 204 S. Fourth St., St. Louis, Mo. "Stayput"

Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Palmer &amp; Palmer, 404 W. Utica St., Buffalo, N. Y. "Lebnite"

Parkin Mfg. Co., Grand Ave., San Rafael, Cal.

Parkston Co., Schenectady, N. Y.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Pyratek—see Erisman Laboratories.

Radetec—see Towner Radio Mfg. Co.

Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.

Radio Receptor Co., 106 Seventh Ave., New York, N. Y.

Radio Specialty Co., 98 Park Pl., New York, N. Y. "Rasco Crysoadyne"

Radiogrand—see Ford Co.

Radjo—see Electric City Novelty &amp; Mfg. Co.

Rasco Crysoadyne—see Radio Specialty Co.

Rasla—see Davidson Radio Corp.

Roll-O-Radio Corp., 35 W. Pearl St., Cincinnati, Ohio

R-U-F Products Co., 319 Glenmore Ave., Brooklyn, N. Y.

Schenectady Radio Corp., 207 State St., Schenectady, N. Y. "Scyrad"

Scientific Research Laboratories, 619 W. Franklin St., Baltimore, Md.

Scyrad—see Schenectady Radio Corp.

Shamrock Harkness—see Shamrock Mfg. Co.

Shamrock Mfg. Co., 196 Waverly Ave., Newark, N. J. "Shamrock Harkness"

Silver Dome—see Hargraves, C. E. &amp; H. T.

Spade—see Tool &amp; Device Corp.

Stafford Radio Co., 29 Newberne St., Somerville, Mass. "Key to the Air"

Star Crystal Co., 525 Woodward Ave., Detroit, Mich. (Sole Distributors for B-Metal Refining Co., Detroit, Mich.) "Crystalstat"

Stayput—see Novelty Radio Mfg. Co.

Steinite Laboratories, Radio Bldg., Atchison, Kans.

Steinmetz Wireless Mfg. Co., 5968 Baum Blvd., Pittsburgh, Pa.

Supertone—see Bisby Mfg. Co.

Tanner Co., C. D., 4154 S. Vermont Ave., Los Angeles, Cal.

Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.

Tool &amp; Device Corp., 520 Congress St., Troy, N. Y. "Spade"

Towner Radio Mfg. Co., 2620 Victor St., Kansas City, Mo. "Radetec"

United Metal Stamping &amp; Radio Co., 411 E. Pearl St., Cincinnati, Ohio "Flynn"

Variotector—see Foote Radio Corp.

Wecco—see Cheever Co.

Welty &amp; Co., William A., 36 S. State St., Chicago, Ill. "Crystector"

Westwyre Co., 283 Elm St., Westfield, Mass.

Wonder State Crystal Co., Bathurst Bldg., Little Rock, Ark.

Yale Radio Electric Co., 1111 Wall St., Los Angeles, Cal.

**DIAL ADJUSTERS—**

see Attachments, Vernier

**DIAL BUSHINGS—**

see Bushings, Dial

**DIAL POINTERS—**

see Pointers, Dial

**DIALS, Hard Rubber—**

see Dials, Rubber

**DIALS, Metal**

*Index Dials made of Metal; for Rubber or Composition Dials—see Dials, Rubber or Composition; also Dials Vernier*

Airex Co., 797 Greenwich St., New York, N. Y.

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.

Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio

Bastian Bros., 1600 N. Clinton St., Rochester, N. Y.

Crowe Name Plate & Mfg. Co., 1749 Grace St., Chicago, Ill.

Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Eria"

Erla—see Electrical Research Laboratories

Etch-Art—see Grammes & Sons.

Etched Products Corp., Queens Blvd. & Harold Ave., Long Island City, N. Y.

General Etching & Mfg. Co., 3070-82 W. Grand Ave., Chicago, Ill.

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Grammes & Sons, L. F., Allentown, Pa. "Etch-Art"

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Greenduck Co., 1725 W. North Ave., Chicago, Ill.

Hanson Co., C. H., 178 N. Clark St., Chicago, Ill.

Litho-Etching Corp., 52 Vanderbilt Ave., New York, N. Y.

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Loughman, W. F., 161 High St., Boston, Mass.

Cataloged on page.....56

Medallion—see Malone-Lemmon Products, Inc.

Malone-Lemmon Products, Inc., 130 Waynewood Pl., Plainfield, N. J. "Medallion"

Moss & Co., Henry, 113 W. 53d St., Brooklyn, N. Y.

Premier Metal Etching Co., 185 Fourteenth St., Long Island City, N. Y.

Cataloged on page.....68

Waterbury Button Co., Waterbury, Conn.

Whitehead & Hoag Co., 272 Sussex Ave., Newark, N. J.

**DIALS, Rubber or Composition**

*Index Dials or Knobs, made of Rubber or Composition; for Metal Dials—see Dials, Metal; also Dials Vernier*

Ajax—see Philmore Mfg. Co.

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"

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All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.

American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"

Aristocrat—see Kurz-Kasch Co.

Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y.

Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt. "Bremco"

Bremco—see Bennington Radio & Electric Mfg. Co.

Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.

Compo-site, Inc., 207 Astor St., Newark, N. J. "Premier"

DuPont Viscoloid Co., Arlington, N. J. "Pyralin"

Dutch Boy—see National Lead Co.

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio

General Insulate Co., 1008 Atlantic Ave., Brooklyn, N. Y.

General Radio Co., 30 State St., Cambridge, Mass.

H & H—see Hart & Hegeman Mfg. Co.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"

Heath Radio & Electric Mfg. Co., 206 First St., Newark, N. J. "Radiant"

Hemco—see Richards & Co.

Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.

Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.

Insulating Company of America, 59 Warren St., New York, N. Y.

K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.

Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.

Kurz-Kasch Co., Dayton, Ohio. "Aristocrat"

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Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y. "Red Seal"

Mar-Co—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"

Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"

Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.

Morse Co., Frank W., 289 Congress St., Boston, Mass.

Muzada—see Mazda Radio Mfg. Co.

Na-ald—see Alden Mfg. Co.

National Lead Co., 111 Broadway, New York, N. Y. "Dutch Boy"

Nelslide—see Stag Sales Corp.

Nelson Tool Co.—see Stag Sales Corp.

Norton Laboratories, Inc., 1025 Mill St., Lockport, N. Y.

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Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Parkin Mfg. Co., Grand Ave., San Rafael, Cal.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

Premier—see Compo-site, Inc.

Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.

Pyralin—see DuPont Viscoloid Co.

Radiant—see Heath Radio & Electric Mfg. Co.

Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"

Radion—see American Hard Rubber Co.

Red Seal—see Manhattan Electrical Supply Co.

Richards & Co., George, 557 W. Monroe St., Chicago, Ill. "Hemco"

Rit-One—see Radio Sales Co.

Shaw Insulator Co., 150 Coit St., Irvington, N. J.

Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.

Stag Sales Corp., 105 W. 40th St., New York, N. Y. (Sole Distributors for Nelson Tool Co., New York, N. Y.) "Nelslide"

Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.

Waterbury Button Co., Waterbury, Conn.

Watertown Mfg. Co., Watertown, Conn.

Wireless Shop, 150 Glendale Blvd., Los Angeles, Cal.

Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Illinois

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**DIALS, Vernier**

*Index Dials with Verniers, constructed either of Metal, Rubber or Composition; for Vernier Attachments—see Attachments, Vernier; for Non-Vernier Dials—see Dials, Rubber or Composition; also Dials, Metal*

Accuratune—see Mydar Radio Co.

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"

American Instrument Works, Fulton Bldg., Pittsburgh, Pa. "Split-Em"

Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.

Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill.

Aristocrat—see Kurz-Kasch Co.

B-T—see Bremer-Tully Mfg. Co.

Bel-Canto Radio & Telephone Equipment Co., 872 Broadway, New York, N. Y.

B. M. S.—see Brooklyn Metal Stamping Corp.

Branston, Chas. A., 815 Main St., Buffalo, N. Y.

Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"

Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "B.M.S."

Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.

Canotex Co., Auburn, N. Y. "Univernier."

Cardwell Mfg. Corp., Allen D., 81 Prospect St., Brooklyn, N. Y. "Equitrol"

Cruver Mfg. Co., 2460 Jackson Blvd., Chicago, Ill. "Proudfoot"

Dialog—see Walmart Electric Mfg. Co.

Distantone Radios, Inc., Lynbrook, N. Y.

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Dymac—see Electrical Products Mfg. Co.

Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa.

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Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"

Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Eria"

English-Whitman Products, 120 Broadway, New York, N. Y. "En-Whit"

En-Whit—see English-Whitman Products

Equitrol—see Cardwell Mfg. Corp.

E-Z-Toon Aristocrat—see Kurz-Kasch Co.

Erla—see Electrical Research Laboratories

Freshman Co., Chas., 240 W. 40th St., New York, N. Y.

Fynur—see Goertz & Co.

Gee Haw—see Gischow Co.

General Radio Co., 30 State St., Cambridge, Mass.

Gischow Co., Otto R., 515 W. 56th St., New York, N. Y. "Gee-Haw"

Glow-Dial—see Wireless Radio Corp.

Goertz & Co., August, 270 Morris Ave., Newark, N. J. "Fynur"

Hammarlund Mfg. Co., 424-38 W. 33d St., New York, N. Y.

Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"

Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.

Ideal—see Mydar Radio Co.

Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.

Karas Electric Co., 4040 N. Rockwell St., Chicago, Ill.

Kurz-Kasch Co., Dayton, Ohio "E-Z-Toon Aristocrat"

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Loughman, W. F., 161 High St., Boston, Mass. "White Cross Dialler"

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Mar-Co—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"

Microvern—see Pacent Electric Co.

Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.

Monosmith Bros. Co., Spencer, Ohio "Visco"

Mydar Radio Co., 9 Campbell St., Newark, N. J. "Accuratune" "Ideal"

## DIALS, Vernier Continued

Na-ald—see Alden Mfg. Co.  
National Co., 110 Brookline St., Cambridge, Mass. "Velvet"  
Pacnet Electric Co., 91 Seventh Ave., New York, N. Y. "Microvern" "Radiodyle"  
Perfection Radio Mfg. Co., 24th & Race Sts., Philadelphia, Pa.  
Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
Proudfoot—see Cruver Mfg. Co.  
Radial Co., 50 Franklin St., New York, N. Y. "Tune-Rite"  
Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
Radiodyle—see Pacnet Electric Co.  
Rathbun Mfg. Co., 101 E. Third St., Jamestown, N. Y.  
Rit-One—see Radio Sales Co.  
S-M—see Silver-Marshall  
Samson Electric Co., Canton, Mass.  
Sensory—see Heinemann Electric Co.  
Shaw Insulator Co., 150 Coit St., Irvington, N. J.  
Sheffield Trimming & Stamping Corp., 211 Centre St., New York, N. Y.  
Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
Split-Em — see American Instrument Works  
Tune-Rite—see Radial Co.  
Univernier—see Canotex Co.  
Velvet—see National Co.  
Viking Tool & Machine Co., 745 65th St., Brooklyn, N. Y. "Wade"  
Visco—see Monosmith Bros.  
Wade—see Viking Tool & Machine Co.  
Walnart Electric Mfg. Co., 308 S. Green St., Chicago, Ill. "Dialog"  
White Cross Dialer — see Loughman, W. F.  
Wireless Radio Corp., Variek Ave. & Harrison Pl., Brooklyn, N. Y. "Glow-Dial"  
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## DIAMOND WEAVE COILS—

see Coils, Inductance

## DIAPHRAGMS, Metal

*Thin round Metal Diaphragms used in Head-Sets or Loud Speaker Units*  
Helmuth Co., L., 516 Fifth Ave., New York, N. Y.  
Shepard Mfg. Co., Worcester, Mass.

## DIAPHRAGMS, Mica

*Thin round Mica Diaphragms used in Head-Sets or Loud Speaker Units*  
American Mica Works, 47 West St., New York, N. Y.  
Brand & Co., William, 27 E. 22d St., New York, N. Y.  
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Hirsch Mica Co., 1087 Flushing Ave., Brooklyn, N. Y.  
Imico — see International Mica Co.  
International Mica Co., 37th & Brandywine Sts., Philadelphia, Pa. "Imico"  
Munsell & Co., Eugene, 68 Church St., New York, N. Y.  
National Mica Works, 37 Concord St., Brooklyn, N. Y.  
New England Minerals Co., 85 Devonshire St., Boston, Mass. "Yankee"  
Schoonmaker Insulation Co., A. O., 30 University Pl., New York, N. Y.  
Superior Mica Diaphragm Co., 61 Park Pl., New York, N. Y.  
Yankee—see New England Minerals Co.

## DIE CAST PARTS—

see Castings, Die

## DIE CASTINGS—

see Castings, Die

## DIE STOCKS—

see Stocks, Die

## DIES—

see Taps and Dies  
also Jigs, Dies and Fixtures

## DIRECT SOCKET ADAPTERS—

see Adapters, Direct Socket

## DIVIDERS—

see Callipers and Dividers

## DOUBLE CIRCUIT JACKS—

see Jacks, Phone

## DOUGHNUT COILS—

see Transformers, Tuned Radio

## DRILLING, Panel—

see Panels, Cutters, Drillers

## DRILLS, Electric Portable

Black & Decker Mfg. Co., (Towson Heights), Baltimore, Md.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Little Giant"  
Cico—see Consolidated Instrument Co. of America  
Cincinnati Electrical Tool Co., Madison & Edwards Rds., Cincinnati, Ohio  
Clark, Jr., Electric Co., James, 520 W. Main St., Louisville, Ky.  
Consolidated Instrument Co. of America, 41 E. 42d St., New York, N. Y. "Cico"  
Electro-Magnetic Tool Co., 19th St. & 52d Ave., Cicero, Ill. "Speed Way"  
Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
Goodell-Pratt Co., Wells St., Greenfield, Mass.  
Hisey-Wolf Machine Co., Colerain & Marshall Aves., Cincinnati, Ohio  
Jones, MacNeal & Camp, Inc., Market & Detroit Sts., Warsaw, Ind. "Power King"  
Little Giant—see Chicago Pneumatic Tool Co.  
Millers Falls Co., Millers Falls, Mass.  
Neil & Smith Electric Tool Co., 905 Broadway, Cincinnati, Ohio  
Power King—see Jones, MacNeal & Camp, Inc.  
Speed Way—see Electro-Magnetic Tool Co.  
Standard Electric Tool Co., Central Parkway & Jackson St., Cincinnati, Ohio  
Stow Mfg. Co., 445 State St., Binghamton, N. Y.  
U.S.—see United States Electrical Tool Co.  
United States Electrical Tool Co., 2488 W. Sixth St., Cincinnati, Ohio. "U.S."  
Van Dorn Electric Tool Co., Cleveland, Ohio.  
Wisconsin Electric Co., 16th St., Racine, Wis.  
Wodack Electric Tool Corp., 23 S. Jefferson St., Chicago, Ill.

## DRILLS, Hand and Breast

Goodell-Pratt Co., Wells St., Greenfield, Mass.  
Keystone Mfg. Co., Buffalo, N. Y.  
Millers Falls Co., Millers Falls, Mass.  
North Bros. Mfg. Co., American St. & Lehigh Ave., Philadelphia, Pa. "Yankee"

Stanley Rule & Level Co., 111 Elm St., New Britain, Conn.  
Yankee — see North Bros. Mfg. Co.

## DRILLS, Twist

American Twist Drill & Tool Co., 2804 W. Jefferson Ave., Detroit, Mich.  
Bay State Tap & Die Co., 75 Chauncy St., Mansfield, Mass.  
Buckeye Twist Drill Co., Elm St., Alliance, Ohio  
Cle-Forge — see Cleveland Twist Drill Co.  
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Cle-Forge"  
Detroit Twist Drill Co., 2108 W. Fort St., Detroit, Mich.  
Diamond — see Whitman & Barnes Mfg. Co.  
Forest City Bit & Tool Co., Rockford, Ill.  
G.T.D. — see Greenfield Tap and Die Corp.  
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "G.T.D."  
Hercules — see Whitman & Barnes Mfg. Co.  
Millers Falls Co., Millers Falls, Mass.  
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.  
National Twist Drill & Tool Co., 6522 Brush St., Detroit, Mich.  
New Process Twist Drill Co., 34 Court St., Taunton, Mass.  
Pratt & Whitney Co., Hartford, Conn.  
Standard Tool Co., 6900 Central Ave., Cleveland, Ohio  
Syracuse Twist Drill Co., 936 S. Townsend St., Syracuse, N. Y.  
Union Twist Drill Co., 70 Monroe St., Athol, Mass.  
Whitman & Barnes Mfg. Co., E. Exchange St., Akron, Ohio. "Diamond," "Hercules"

## DRIVE GROUNDS—

see Rods, Ground

## DRIVERS, Screw—

see Screw Drivers, Standard

## DRY BATTERIES—

see Batteries, A Dry  
also Batteries, B Dry  
also Batteries, C Dry

## DRY CELL TUBES—

see Tubes, Vacuum

## DUO-LATERAL COILS—

see Coils, Inductance

## DYNAMOMETERS, Tube Testing

see Instruments, Tube Testing

## EAR CUSHIONS—

see Cushions, Rubber Phone

## EARTH GROUNDS—

see Grounds, Cone and Cylinder  
also Rods, Ground

## ELECTRIC CIGAR LIGHTERS—

see Lighters, Electric Storage Battery Cigar

## ELECTRIC DRILLS —

see Drills, Electric Portable



**ELECTRIC SOLDERING IRONS—**

see Irons, Electric Soldering

**ELECTRICAL TEST CLIPS—**

see Clips, Electrical Test

**ELECTRICAL TEST SETS—**

see Sets, Electrical Testing

**ELECTRICAL TESTING INSTRUMENTS—**

see Sets, Electrical Testing

**ELECTROLYTE, Storage Battery—**

see Acid, Sulphuric

**ELECTROLYTIC CHARGERS—**

see Rectifiers, Battery Charging Electrolytic

**ELIMINATOR KITS—**

see Rectifiers, Knockdown Plate Current Supply

**ELIMINATORS, Battery—**

see Rectifiers, Filament Current Supply also Rectifiers, Filament and Plate Current Supply also Rectifiers, Plate Current Supply

**ELIMINATORS, Static—**

see Reducers, Static

**EMERY CLOTH—**

see Paper, Emery

**EMERY PAPER—**

see Paper, Emery

**ENAMELED ANTENNA WIRE—**

see Wire, Enameled Copper

**ENAMELED MAGNET WIRE—**

see Wire, Enameled Magnet

**ENAMELED WIRE, Stranded—**

see Wire, Covered Stranded Enameled

**ENAMELS, Baking and Air Drying—**

see Lacquers, Crystallizing

**END WRENCHES—**

see Wrenches, Open End

**ENGRAVING MACHINES—**

see Machines, Engraving

**ENGRAVING, Panel—**

see Panels, Cutters, Drillers and Engravers of

**ENGRAVINGS, Transfer—**

see Transfers, Decalcomania

**EQUALIZING CONDENSERS—**

see Condensers, Variable Miniature

**EXPANDING CUTTERS—**

see Cutters, Panel Hole

**EXTENSION CORDS—**

see Cords, Extension

**EXTENSION JACKS—**

see Jacks, Extension

**EYELET SETTING MACHINES—**

see Machines, Eyelet Setting

**EYELETS, Brass**

American Ring Co., 531 Bank St., Waterbury, Conn. "Ringco Brand"

Barrett Bindery Co., 1328 W. Monroe St., Chicago, Ill.

Dallas Brass & Copper Co., 820 Orleans St., Chicago, Ill.

Grammes & Sons, L. F., Allentown, Pa. Mattatuck Mfg. Co., E. Main St., Waterbury, Conn.

Peerless Machinery Co., Boston, Mass.

Platt Bros. & Co., Waterbury, Conn.

Ringco Brand—see American Ring Co.

Stimpson Co., Edwin B., 74 Franklin Ave., Brooklyn, N. Y.

U. S. Shoe Machinery Corp., 205 Lincoln St., Boston, Mass.

Waterbury Brass Goods Corp., 26 Crane St., Waterbury, Conn.

Waterbury Button Co., Waterbury, Conn.

**FABRIC COVERED CABINETS—**

see Cabinets, Fabric

**FELT CUSHIONING—**

see Felt, Sheet

**FELT, Sheet**

American Felt Co., 211 Congress St., Boston, Mass.

Cataloged on page.....59 Booth Felt Co., 463 19th St., Brooklyn, N. Y.

Brawley, T. R., 275 20th St., Brooklyn, N. Y.

Continental Felt Co., 64 E. 11th St., New York, N. Y.

Eastern Felt Co., Canal St., Winchester, Mass.

Monarch Felt Works, 39 York St., Brooklyn, N. Y.

Western Felt Works, 4031 Ogden Ave., Chicago, Ill.

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**FELT STRIPS—**

see Washers, Felt

**FELT WASHERS—**

see Washers, Felt

**FIBRE BOXES—**

see Boxes, Corrugated Fibre

**FIBRE, Hard—**

see Fibre, Vulcanized

**FIBRE HORNS—**

see Horns, Composition

**FIBRE PUNCHES—**

see Stampings, Fibre

**FIBRE STAMPINGS—**

see Stampings, Fibre

**FIBRE, Vulcanized**

Sheet, Rod and Tube

Abaroid—see Campbell Fibre Co.

Brandywine Fibre Products Co., 15th & Walnut Sts., Wilmington, Del.

Campbell Fibre Co., Stanton, Del. "Abaroid"

Continental Fibre Co., Newark, Del.

Delaware Hard Fibre Co., Wilmington, Del. "Egyptian"

Diamond State Fibre Co., Bridgeport, Pa. Duresto—see Spaulding Fibre Co.

Egyptian—see Delaware Hard Fibre Co. Fiberoid—see Wilmington Fibre Specialty Co.

National Vulcanized Fibre Co., (Phenolic Products Division) Wilmington, Del. "Vul-Cot"

Rogers Fibre Co., 121 Beach St., Boston, Mass.

Spaulding Fibre Co., 308 Wheeler St., Tonawanda, N. Y. "Duresto"

Standard Fibre Products Co., 36 Pleasant St., Watertown, Mass.

Vul-Cot—see National Vulcanized Fibre Co.

Wilmington Fibre Specialty Co., Wilmington, Del. "Fyberoid"

**FILAMENT BATTERIES—**

see Batteries, A Dry also Batteries, A Storage

**FILAMENT CONTROL JACKS—**

see Jacks, Phone

**FILAMENT CURRENT SUPPLY RECTIFIERS—**

see Rectifiers, Filament Current Supply also Rectifiers, Filament and Plate Current Supply also Rectifiers, Plate Current Supply

**FILAMENT RHEOSTATS—**

see Rheostats, Battery

**FILAMENT VOLTMETERS—**

see Ammeters and Voltmeters, Panel

**FILES AND RASPS**

American—see Nicholson File Co.

Arcade—see Nicholson File Co.

Black Diamond—see Nicholson File Co.

Chelsea File Works, Sherman St., Norwich, Conn.

Delta File Works, Tucker & James Sts., Philadelphia, Pa.

Disston & Sons, H. (Tacony), Philadelphia, Pa.

Eagle—see Nicholson File Co.

Great Western—see Nicholson File Co.

Hayes File Co., 1900 Franklin St., Detroit, Mich.

J. Barton Smith—see Nicholson File Co.

Kearney & Foot—see Nicholson File Co.

McClellan—see Nicholson File Co.

**FILES AND RASPS****Continued**

Murcott & Campbell, 296 Union Ave., Brooklyn, N. Y.  
 Nicholson File Co., 23 Acorn St., Providence, R. I. "America," "Arcade," "Eagle," "McClellan," "Kearney & Foot," "J. Barton Smith," "Great Western," "Black Diamond"  
 Simonds Mfg. Co., 470 Main St., Fitchburg, Mass.  
 Trojan—see Troy File Works  
 Troy File Works, 520 Congress St., Troy, N. Y. "Trojan"

**FILLERS, Storage Battery**

*Holders and Jars for rewatering Storage Batteries; for Rubber Syringes—see Syringes, Storage Battery*

Reliable Parts Mfg. Co., 2819-33 Prospect Ave., Cleveland, Ohio

**FILTER COILS—**

see Coils, Choke

**FILTER CONDENSERS—**

see Condensers, Filter

**FILTER REACTORS —**

see Coils, Choke

**FILTERS, Static—**

see Reducers, Static

**FILTERS, Wave—**

see Traps, Wave

**FITTINGS, Iron Antenna Pole**

*Special Clamps, Braces, etc., for supporting Antenna Poles*

Bull Dog—see Freidag Mfg. Co.  
 Freidag Mfg. Co., 1131 S. Adams Ave., Freeport, Ill. "Bull Dog"  
 Mitchell-Taylor Co., 1601 S. Michigan Ave., Chicago, Ill.  
 Pomona Hardware Co., 227 W. Second St., Pomona, Cal.  
 Pressed Metal Mfg. Co., Waukesha, Wis. "Redi-Mast"  
 Redi-Mast—see Pressed Metal Mfg. Co.  
 Standard Aerial Base Co., 227 W. Second St., Pomona, Cal.  
 Western Pipe & Steel Co. of Illinois, 4948 Bloomingdale Ave., Chicago, Ill.

**FIXED CONDENSERS—**

see Condensers, Fixed

**FIXED GRID-LEAKS—**

see Grid-Leaks, Fixed

**FIXED RESISTANCES—**

see Resistances, Fixed

**FIXTURES—**

see Jigs, Dies and Fixtures

**FLAT COPPER ANTENNA WIRE—**

see Wire, Flat or Strip Copper

**FLEXIBLE CORD—**

see Cord, Flexible Lamp  
 also Cord, Flexible Tinsel

**FLEXIBLE LAMP CORD—**

see Cord, Flexible Lamp

**FLEXIBLE TELEPHONE CORD—**

see Cord, Flexible Tinsel

**FLEXIBLE TINSEL CORD—**

see Cord, Flexible Tinsel

**FLUID, Soldering—**

see Flux, Soldering

**FLUX, Soldering**

*Acid, Fluxes, Pastes, Salts, Solutions, etc., for use in Soldering; for Self Fluxing Solder—see Solder, Bar and Wire*  
 Allen Co., L. B., 4519 N. Lincoln St., Chicago, Ill.

Amco—see American Solder & Flux Co.  
 American Solder & Flux Co., 2910 N. 16th St., Philadelphia, Pa. "Amco"  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Benson Co. Alex. R., S. Bay Rd., Hudson, N. Y. "Yagers"

Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J. "Peerless"

Burnley Battery & Mfg. Co., Clay St., North East, Pa.

Callahan & Co., Geo., 218 Front St., New York, N. Y.

Coast Dry Battery Co., 1327 Rainier Ave., Seattle, Wash. "Whiz"

Crystalite—See Reade Mfg. Co.

Daval Mfg. Co., 171 Seventh Ave., New York, N. Y.

Dielectric Mfg. Co., 224 S. Vanderventer Ave., St. Louis, Mo.

Doe, Walter S., Kent, Ohio

Dunton Co., M. W., 670 Eddy St., Providence, R. I. "Nokorode"

Dutch Brand—see Van Cleef Bros.

Essex Mfg. Co., 40 Lawrence St., Newark, N. J.

Eureka—see Grasselli Chemical Co.

Fahlberg Mfg. Co., E. D. Madison, Wis. "Reddy Stik"

Firth Radio Corp., 25 Beaver St., New York, N. Y. "Perfecto"

Fluxite—see Monarch Products Co.

Fres-Co Chemical Co., Fort Wayne, Ind.

G. E.—see General Electric Co.

Garden City Laboratory, 38 S. Dearborn St., Chicago, Ill.

Gazzolo Drug & Chemical Co., 119 S. Green St., Chicago, Ill. "Noharm"

General Electric Co. (Merchandise Department), Bridgeport, Conn. "G.E."

Goldmark Co., James, 83 Warren St., New York, N. Y. (Gen. Sales Agents for New England Electrical Works, Lisbon, N. H.)

Grasselli Chemical Co., Guardian Bldg., Cleveland, Ohio "Eureka"

Highland Electro-Chemical Mfg. Co., Connelville, Pa.

Imperial Soldering Fluid Co., 81 Cortlandt St., New York, N. Y.

Incomparable—see Reade Mfg. Co.

Johnson Mfg. Co., 729 Washington Blvd., Chicago, Ill.

Killark Electric Mfg. Co., 3940 Easton Ave., St. Louis, Mo.

Lukens Metal Co., Thomas F., 1105 Fairmount Ave., Philadelphia, Pa.

McGill Mfg. Co., Valparaiso, Ind.

Monarch Products Co., 135 Monmouth St., Red Bank, N. J. "Fluxite"

New England Electrical Works—see Goldmark Co.

Noharm—see Gazzolo Drug & Chemical Co.

Nokorode—see Dunton Co.

Oakwood—see Weaver Specialty Co.

Paragon Insulating Co., 5716 Euclid Ave., Cleveland, Ohio

Peerless—see Brach Mfg. Co.

Perfecto—see Firth Radio Corp.

Reade Mfg. Co., Jersey City, N. J. "Incomparable" "Readina" "Crystalite" "Readeana"

Readeana—see Reade Mfg. Co.

Readina—see Reade Mfg. Co.

Reddy Stik—see Fahlberg Mfg. Co.

Ruby Chemical Co., 63 McDowell St., Columbus, Ohio.

Special Chemicals Co., 23 E. Second St., Highland Park, Ill. "Speco"

Speco—see Special Chemicals Co.

Van Cleef Bros., Woodlawn Ave. & 77th St., Chicago, Ill. "Dutch Brand"

Weaver Specialty Co., 6344 Aurelia St., Pittsburgh, Pa. "Oakwood"

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

Whiz—see Coast Dry Battery Co.

Yagers—see Benson Co.

**FOIL, Aluminum**

Aluminum Co., of America, Oliver Bldg., Pittsburgh, Pa.

**FOIL, Tin**

Grauert, R. W., 64 W. Broadway, New York, N. Y.

Johnston Tin Foil & Metal Co., 6106 South Broadway, St. Louis, Mo.

Lehmaier, Schwartz & Co., 215 E. 22d St., New York, N. Y.

**FORMED AERIALS—**

see Aerials, Formed

**FORMS, Coil Winding**

*Special Forms for Winding Coil Shapes*

Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.

De Luxe Sales Co., 163 Greene St., New York, N. Y.

Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio

Vetter, W. A., 24 12th St., San Francisco, Cal.

**FRACTIONAL HORSE POWER MOTORS—**

see Motors, Fractional Horse Power

**FRAMES, Hack Saw**

*For Hack Saw Blades—see Blades, Hack Saw*

AAA—see Atkins & Co.

Atkins & Co., E. C., 402 S. Illinois St., Indianapolis, Ind. "AAA"

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Electric"

Buffum Tool Co., 120 N. Fourth St., Louisiana, Mo.

Consolidated Tool Works, 296 Broadway, New York, N. Y. "Pilot"

Disston & Sons, Henry (Tacony), Philadelphia, Pa.

Goodell-Pratt Co., Wells St., Greenfield, Mass.

Midget—see Stevens & Co.

Millers Falls Co., Millers Falls, Mass.

Pilot—see Consolidated Tool Works

Radio-Lectric—see Bridgeport Hardware Mfg. Corp.

Starrett Co., L. S., 165 Crescent St., Athol, Mass.

Stevens & Co., 375 Broadway, New York, N. Y. "Midget"

Threadwell Tool Co., 15 Arch St., Greenfield, Mass.

Union Hardware Co., 535 Milgeon St., Torrington, Conn.

Whitaker Mfg. Co., 409 S. Green St., Chicago, Ill.

**FRICTION TAPE—**

see Tape, Insulating

**FUSES, Enclosed**

Small safety devices for opening Power Circuits upon Overload

Bussman Mfg. Co., 3819 N. 23d St., St. Louis, Mo.

Chase-Shawmut Co., Newburyport, Mass. "Shawmut"

Chicago Fuse Mfg. Co., 1505 W. 15th St., Chicago, Ill. "Gem" "Union"

Commercial Enclosed Fuse Co., 1317 Willow Ave., Hoboken, N. J.

Cote Bros. Mfg. Corp., 224 N. Wells St., Chicago, Ill. "Simplicity"

D & W Fuse Works of General Electric Co., Bridgeport, Conn.

Economy Fuse & Mfg. Co., Chicago, Ill.

Gem—see Chicago Fuse Mfg. Co.

Johns-Pratt Co., Hartford, Conn.

K-E—see Kirkman Engineering Corp.

Killark Electric Mfg. Co., 3940 Easton Ave., St. Louis, Mo.

Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"

Metropolitan Electric Mfg. Co., East Ave. & 14th St., Long Island City, N. Y.

Monarch Fuse Co., Jamestown, N. Y.

Pierce Renewable Fuses, Inc., 752 Main St., Buffalo, N. Y.

Raco—see Roach-Appleton Mfg. Co.

Roach-Appleton Mfg. Co., 3440 N. Kimball Ave., Chicago, Ill. "Raco"

Shawmut—see Chase-Shawmut Co.

Simplicity—see Cote Bros. Mfg. Corp.

Star Fuse Co., 168 Centre St., New York, N. Y.

Union—see Chicago Fuse Mfg. Co.

**FUSES, Vacuum Tube**

Small Fuses for protecting Radio Tubes from B Battery Voltage if short circuits occur

Chicago Fuse Mfg. Co., 1505 W. 15th St., Chicago, Ill. "Gem"

Gem—see Chicago Fuse Mfg. Co.

Gray Products, Inc., 218 Union St., Poughkeepsie, N. Y.

Radeco—see Radio Equipment Co.

Radio Equipment Co., 20 Stuart St., Boston, Mass. "Radeco"

Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio

**GAGES, Mounting—**

see Jigs, Mounting

**GALENA CRYSTALS—**

see Crystals, Detector

**GALVANOMETERS, Testing**

Small Indicating Instruments for testing

Cambridge & Paul Instrument Co. of America, Grand Central Terminal, New York, N. Y.

Gray Instrument Co., 64 W. Johnson St., (Germantown), Philadelphia, Pa.

Illinois Testing Laboratories, 141 W. Austin Ave., Chicago, Ill.

Weston Electrical Instrument Corp., 157 Weston Ave., Newark, N. J.

**GANG VACUUM TUBE**

**SOCKETS—**

see Sockets, Gang Vacuum Tube

**GAPS, Adjustable Spark**

A Spark sending device with an Adjustable Gap

Beeko—see Bunnell & Co.

Bunnell & Co., J. H. 32 Park Pl., New York, N. Y. "Beeko," "Mascot," "Dandy," "Jove"

Dandy—see Bunnell & Co.

Jove—see Bunnell & Co.

Mascot—see Bunnell & Co.

**GAPS, Rotary Spark**

A Spark sending device with a Rotary Gap

Beeko—see Bunnell & Co.

Bunnell & Co., J. H., 32 Park Pl., New York, N. Y. "Beeko," "Dandy," "Jove," "Mascot"

Dandy—see Bunnell & Co.

Jove—see Bunnell & Co.

Mascot—see Bunnell & Co.

**GARSITE CRYSTALS—**

see Crystals, Detector

**GENERATORS, High Frequency**

Electric Specialty Co., 215 South St., Stamford, Conn. "Esco"

Esco—see Electric Specialty Co.

General Electric Co., Schenectady, N. Y.

Westinghouse Electric Mfg. Co., East Pittsburgh, Pa.

**GERMAN SILVER—**

see Brass and Copper, Sheet and Rod

**GLASS BATTERY JARS—**

see Jars, Glass Battery

**GLASS BATTERY TRAYS—**

see Trays, Glass Battery

**GLASS INSULATORS—**

see Insulators, Glass

**GLASS SOCKETS—**

see Sockets, Vacuum Tube

**GLASS TEST TUBES—**

see Tubes, Glass B Battery

**GOLD PLATED ANTENNA WIRE—**

see Wire, Gold Plated Antenna

**GRID CONDENSERS—**

see Condensers, Fixed

**GRID-LEAK CLIPS—**

see Holders, Grid-Leak

**GRID-LEAK HOLDERS—**

see Holders, Grid-Leak

**GRID-LEAK MOUNTINGS—**

see Holders, Grid-Leak

**GRID-LEAKS, Adjustable—**

see Grid-Leaks, Variable

**GRID-LEAKS, Fixed**

Fixed high Resistances ranging from 1/2 to 10 Megohms ready for mounting in the Grid Circuit to prevent Tube from choking; see also Resistances, Fixed; also Resistors, Audio Frequency; also Resistors, Variable

Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y.

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Ajax—see Philmore Mfg. Co.

Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y. "Grid-Gate"

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Cole Radio Mfg. Corp., 535 Bloomfield Ave., Bloomfield, N. J. "Meggit"

Daven Radio Corp., 158 Summit St., Newark, N. J. "Glastor" "Leakandenser"

DeForest Radio Co., 124 Sherman Ave., Jersey City, N. J.

DeJur Products Co., 199 Lafayette St., New York, N. Y.

Deutschmann, Tobe C., 46 Cornhill St., Boston, Mass.

Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Meta-leak"

Durham—see International Resistance Co.

Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.

Electrad, Inc., 428 Broadway, New York, N. Y.

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"

Freshman Co., Chas., 240 W. 40th St., New York, N. Y.

Glastor—see Daven Radio Corp.

Goerdes Co. Fred M., 81 Mt. Prospect Ave., Newark, N. J.

Grid-Gate—see Amsco Products, Inc.

H & H—see Hart & Hegeman Mfg. Co.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"

Haydon & Haydon, 73 Warren St., New York, N. Y.

International Resistance Co., Perry Bldg., Dept. K., Philadelphia, Pa. "Durham"

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Leakandenser—see Daven Radio Corp.

Lynch, Inc., Arthur H., Broadway & 57th St., New York, N. Y.

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Master Radio Instrument Co., 153 Wright St., Newark, N. J. "Masto"

Masto—see Master Radio Instrument Co.

Me-Am-Co.—see Michigan Electric & Mfg. Co.

Meggit—see Cole Radio Mfg. Corp.

Meta-leak—see Dubilier Condenser & Radio Corp.

Metro Electric Mfg. Co., 123 Prince St., New York, N. Y.

Micamold Radio Corp., Brooklyn, N. Y.

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Michigan Electric & Mfg. Co., Lake Linden, Mich. "Me-Am-Co."

Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa.

Mountford, C. E., 463 Greenwich St., New York, N. Y.

Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.

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Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Poly—see Polymet Mfg. Corp.

Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "Poly"

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Tridot Electric Co., 16 Hudson St., New York, N. Y.

Un-X-Ld—see Forman & Co.



**GRID-LEAKS, Variable**

*Variable high Resistances varying from 1 to 10 Megohms ready for mounting in the Grid Circuit to prevent Tube from choking; see also Resistances, Fixed; also Resistors, Audio Frequency; also Resistors, Variable*

Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleyleak"  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
 Audiohm—see Electrad, Inc.  
 Bradleyleak—see Allen-Bradley Co.  
 Brady Co., A. C., 240 W. 40th St., New York, N. Y.  
 Bretwood—see North American Bretwood Co.  
 Central Radio Laboratories, 16 Keefe Milwaukee, Wis. "Centralab"  
 Centralab—see Central Radio Laboratories  
 C-H—see Cutler-Hammer Mfg. Co.  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"  
 Durham & Co., 1936 Market St., Philadelphia, Pa.  
 Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.  
 Electrad, Inc., 428 Broadway, New York, N. Y. "Variohm" "Audiohm" "Royalty"  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Pall Mall"  
 Firth Radio Corp., 25 Beaver St., New York, N. Y.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Freshman Co., Chas., 240 W. 40th St., New York, N. Y.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Haydon & Haydon, 73 Warren St., New York, N. Y.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa.  
 Mountford, C. E., 463 Greenwich St., New York, N. Y.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
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 Nonoise—see Radio Foundation, Inc.  
 North American Bretwood Co., 145 W. 45th St., New York, N. Y. "Bretwood"  
 Pall Mall—see Essex Mfg. Co.  
 Radio Foundation, Inc., 25 W. Broadway, New York, N. Y. "Nonoise"  
 Royalty—see Electrad, Inc.  
 Strand Electrical Apparatus, 170 Pleasant St., Malden, Mass.  
 Tridot Electric Co., 16 Hudson St., New York, N. Y.  
 Turn-It Radio Sales, Inc., 71 Murray St., New York, N. Y.  
 Un-X-Ld—see Forman & Co.  
 Variohm—see Electrad, Inc.

**GRINDERS, Electric—**

see Drills, Electric

**GROMMETS, Brass—**

see Eyelets, Brass

**GROUND CLAMPS—**

see Clamps, Ground

**GROUND FITTINGS—**

see Rods, Ground

**GROUND RODS—**

see Rods, Ground

**GROUND WIRE—**

see Wire, Rubber Covered

**GROUNDING BOXES—**

see Boxes, Ground

**GROUPS, Cone—**

see Groups, Cone and Cylinder

**GROUPS, Cylinder—**

see Groups, Cone and Cylinder

**GROUPS, Cone and Cylinder**

*Special Forms of Metal Grounds*

Burn-Boston Battery & Mfg. Works, 80 Boylston St., Boston, Mass.  
 Hubbard & Co., 62d St. & A. V. R.R., Pittsburgh, Pa.  
 Paragon Electric Co., 37 W. Van Buren St., Chicago, Ill.  
 Ray Mfg. Co., 20 W. Central Ave., Redlands, Cal.

**GROUPS, Drive—**

see Rods, Ground

**GUY ANCHORS—**

see Anchors, Guy

**HACK SAW BLADES—**

see Blades, Hack Saw

**HACK SAW FRAMES—**

see Frames, Hack Saw

**HAMMERS, Ball Pein—**

see Hammers, Pein

**HAMMERS, Machinists'—**

see Hammers, Pein

**HAMMERS, Pein**

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"  
 Buffum Tool Co., 120 N. Fourth St., Louisiana, Mo.  
 Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Maydole Hammer Co., David, 45 Lackawanna Ave., Norwich, N. Y.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Smith & Co., H. D., Plantsville, Conn.  
 Stanley Rule & Level Co., 111 Elm St., New Britain, Conn.

**HAND DRILLS—**

see Drills, Hand and Breast

**HAND VISES—**

see Vises, Hand and Pin

**HARD RUBBER—**

see Rubber, Hard

**HARD RUBBER DIALS—**

see Dials, Rubber

**HARD RUBBER INSULATORS—**

see Rubber, Hard

**HARD RUBBER VARIOCOUPERS—**

see Variocouplers

**HARD RUBBER VARIOMETERS—**

see Variometers

**HARNESSES—**

see Cables, Multiple Battery

**HEAD BANDS—**

see Bands, Head

**HEAD-SETS, Complete**

*Two Receivers held together by Head Band including telephone cords for connection to radio receiver*

Advance Radio Mfg. Co., 1420 S. Michigan Ave., Chicago, Ill.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Ambassador Sales Co., 108 Greenwich St., New York, N. Y.  
 American Electric Co., 6401 S. State St., Chicago, Ill. "Army and Navy" "Key-stone" "Victor" "Swedish-American"  
 Ampl-Tone—see Union Fabric Co.  
 Aristocrat—see Dictograph Products Corp.  
 Army and Navy—see American Electric Co., Inc.  
 Baldwin, Nathaniel, Inc., 3474 S. 23d East St., Salt Lake City, Utah  
 Bel-Canto Radio & Telephone Equipment Co., 872 Broadway, New York, N. Y.  
 Bemco Mfg. Co., 243 W. 55th St., New York, N. Y.  
 Berstan Radio Products Co., 329 Dwight St., Springfield, Mass.  
 Berwick—see Triangle Electro Trading Co.  
 Bestone—see Hyman & Co.  
 Blue Streak—see Marinette Electric Corp.  
 Brandes—see Federal-Brandes, Inc.  
 Camco Cannon-Ball—see Cannon & Miller Co.  
 Camco Grand—see Cannon & Miller Co.  
 Cannon & Miller Co., Springwater, N. Y. "Camco Cannon-Ball" "Camco Grand"  
 Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn.  
 De Forest Radio Co., 124 Sherman Ave., Jersey City, N. J.  
 De Luxe—see International Radio Telephone Apparatus Co.  
 Delta Electric Co., Nebraska & 33d Sts., Marion, Ind. "Gold Stripe"  
 Dependable—see Trimm Radio Mfg. Co.  
 Dictograph Products Corp., 220 W. 42d St., New York, N. Y. "Aristocrat"  
 Duophones—see Warren Radio Phone Mfg. Co.  
 Dymac—see Electrical Products Mfg. Co.  
 Eisemann Magneto Corp., 165 Broadway, New York, N. Y.  
 Electrical Apparatus Co., 5922 Commonwealth Ave., Detroit, Mich.  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
 Elwood Electric Co., 990 Housatonic Ave., Bridgeport, Conn.  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J.  
 Everytone—see Pacent Electric Co.  
 Federal-Brandes, Inc., Woolworth Bldg., New York, N. Y. "Brandes"

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Friedlander-Kopple Radio Service, 149 Church St., New York, N. Y. "Welbilt"  
**Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.**  
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 Globe Phone Mfg. Co., Reading, Mass.  
 Gold Stripe—see Delta Electric Co.  
**Hamburg Bros., 450-52 Seventh Ave., Pittsburgh, Pa. "Pennsylvania"**  
 Cataloged on page.....110  
**Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"**  
**Hartford Metal Products Co., 112 Allyn St., Hartford, Conn.**  
**H & H—see Hart & Hegeman Mfg. Co.**  
**Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"**  
**International Radio Telephone Apparatus Co., 17 Gramercy Park, New York, N. Y. "De Luxe"**  
**Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.**  
**Kennedy Co., Colin B.—see Kennedy Corp.**  
**Kennedy Corp., Colin B., 2017 Locust St., St. Louis, Mo. (Sole Selling Agents for Colin B. Kennedy Co., St. Louis, Mo.)**  
**Keystone—see American Electric Co.**  
**Kismet—see Radio Telephone & Telegraph Corp.**  
**Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio. "Quality"**  
**Lark—see Leich Electric Co.**  
**Leich Electric Co., Genoa, Ill. "Lark"**  
**Litewate—see Premier Electric Co.**  
**Little Gem—see Triangle Electro Trading Co.**  
**Little Spitfire—see Tower Mfg. Corp.**  
**Little Tattler—see Marinette Electric Co.**  
**Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y. "Red Seal"**  
**Marinette Electric Corp., Marinette Wis. "Little Tattler" "Blue Streak"**  
**Mozart-Grand Co., Newark, N. J.**  
**Murdock Co., Wm. J., 347 Washington Ave., Chelsea, Mass.**  
**Narragansett Radio Corp., 133 Dyer St., Providence, R. I.**  
**Newton Pressed Steel & Mfg. Co., 13 Hawthorne St., Newton, Mass. "New-Tone" "Superette"**  
**New-Tone—see Newton Pressed Steel & Mfg. Co.**  
**Pacent Electric Co., 91 Seventh Ave., New York, N. Y. "Everyone"**  
**Pal Radio Co., 1204 Summit Ave., Jersey City, N. J.**  
**Peerless—see United Radio Corp.**  
**Pennsylvania—see Hamburg Bros.**  
**Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Wonderphone"**  
**Potter Tool & Machine Works, 79 E. 130th St., New York, N. Y.**  
**Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Litewate"**  
**Professional—see Trimm Radio Mfg. Co.**  
**Quality—see Kodel Radio Corp.**  
**Radio Telephone & Telegraph Corp., 130 W. 42d St., New York, N. Y. "Kismet"**  
**Radiocelve Mfg. Co., 368 Jelliff Ave., Newark, N. J.**  
**Radiotive Corp., 5317 21st Ave., Brooklyn, N. Y. "Silken Voice"**  
**Red Seal—see Manhattan Electrical Supply Co.**  
**Roller-Smith Co., 233 Broadway, New York, N. Y. "Universal"**  
**Royal Electrical Laboratories, 109 Tichenor St., Newark, N. J. "Royalfone"**  
**Royalfone—see Royal Electrical Laboratories**  
**Scientific—see Tower Mfg. Corp.**  
**Silken Voice—see Radiotive Corp.**  
**Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.**  
**Splitdorf Electrical Co., 392 High St., Newark, N. J.**  
**Steinmetz Wireless Mfg. Co., 5968 Baum Blvd., Pittsburgh, Pa.**

**Stoddard Telephone Construction Co., Front & Bridge Sts., Monroe, Mich.**  
**Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.**  
**Summit Radio Products, Inc., 30 Hague St., Jersey City, N. J.**  
**Sunlight Lamp Co., Newton Falls, Ohio.**  
**Superette—see Newton Pressed Steel & Mfg. Co.**  
**Swedish-American—see American Electric Co.**  
**T. B. H. Radio Co., Dansville, N. Y. "Viodyne" "Violana"**  
 Cataloged on page.....60  
**Teleradio Engineering Corp., 490 Broome St., New York, N. Y. "Perfectone"**  
**Tillman, Products Co., 187 W. Ninth St., Brooklyn, N. Y.**  
**Tower Mfg. Corp., 98 Brookline Ave., Boston, Mass. "Little Spitfire" "Scientific"**  
**Triangle Electro Trading Co., 4077 Park Ave., New York, N. Y. "Berwick" "Little Gem"**  
**Trimm Radio Mfg. Co., 24 S. Clinton St., Chicago, Ill. "Dependable" "Professional"**  
**True Tone Radio Mfg. Co., 186 N. La Salle St., Chicago, Ill.**  
**Union Fabric Co., Housatonic Ave., Derby, Conn. "Ampl-Tone"**  
**United Radio Corp., 115 Caledonia St., Rochester, N. Y. "Peerless"**  
**Universal—see Roller-Smith Co.**  
**Victor—see American Electric Co.**  
**Viodyne—see T. B. H. Radio Co.**  
**Violana—see T. B. H. Radio Co.**  
**Warren Radio Phone Mfg. Co., S. Main St., Warren, R. I. "Durophones"**  
**Welbilt—see Friedlander-Kopple Radio Service**  
**Western Electric Co., W. 22nd St. & Cicero Ave., Chicago, Ill.**  
**White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.**  
**Wonderphone—see Philmore Mfg. Co.**

**HEAD TELEPHONES—**

see Head-Sets

**HEXAGON NUTS—**

see Nuts, Brass

**HIGH FREQUENCY BUZZERS—**

see Buzzers, High Frequency

**HIGH FREQUENCY CABLE—**

see Wire, Covered Stranded Enameled

**HIGH FREQUENCY GENERATORS—**

see Generators, High Frequency

**HINGES, Cabinet**

**Corbin Cabinet Lock Co., New Britain, Conn.**  
**Grammes & Sons, L. F., Allentown, Pa.**  
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**Soss Mfg. Co., Grand Ave. & Bergen St., Brooklyn, N. Y.**  
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**Stanley Works, Grove & Hill Sts., New Britain, Conn.**

**HINGES, Continuous**

**Bronson Co., Homer D., Beacon Falls, Conn.**  
**Ramsey Co., Charles, Kingston, N. Y.**  
**Seovill Mfg. Co., Waetbury, Conn.**  
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**Waterbury Brass Goods Corp., 26 Crane St., Waterbury, Conn.**

**HINGES, Invisible—**

see Hinges, Cabinet

**HINGES, Piano—**

see Hinges, Continuous

**HOLDERS, Coil—**

see Mountings, Coil

**HOLDERS, Crystal**

*Receptacles for containing the mineral in a Crystal Detector*

**Hearwell Electric Co., 53 Devonshire St., Boston, Mass.**  
**Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Muzada"**  
**Muzada—see Mazda Radio Mfg. Co.**  
**United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio.**  
**Wonder State Crystal Co., Bathurst Bldg., Little Rock, Ark.**

**HOLDERS, Grid-Leak**

*Clips, Mountings, etc. used as supports for Grid Leaks and Resistors*

**Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y.**  
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**Ajax—see Philmore Mfg. Co.**  
**Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.**  
**Cole Radio Mfg. Corp., 535 Bloomfield Ave., Bloomfield, N. J. "Meggit"**  
**Daven Radio Corp., 158 Summit St., Newark, N. J.**  
**DeJur Products Co., 199 Lafayette St., New York, N. Y.**  
**Durham—see International Resistance Co.**  
**Durham & Co., 1936 Market St., Philadelphia, Pa.**  
**Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.**  
**Electrad, Inc., 428 Broadway, New York, N. Y.**

**Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.**

**General Mfg. Co., 6637 Cottage Grove Ave., Chicago, Ill.**

**Goerdes Co., Fred M., 81 Mt. Prospect Ave., Newark, N. J.**

**H & H—see Hart & Hegeman Mfg. Co.**

**Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"**

**International Resistance Co., Perry Bldg., Dept. K, Philadelphia, Pa. "Durham"**

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**Lynch, Inc., Arthur H., Broadway & 57th St., New York, N. Y.**

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**Meggit—see Cole Radio Mfg. Corp.**

**Micamold Radio Corp., Brooklyn, N. Y.**

**Mountford, C. E., 463 Greenwich St., New York, N. Y.**

**Mucher, John J., 109 Lafayette St., New York, N. Y.**

**Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill.**

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**New York Coil Co., 338 Pearl St., New York, N. Y.**

**Pacent Electric Co., 91 Seventh Ave., New York, N. Y.**

**Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"**

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**Rajah Co., Bloomfield, N. J.**

**Sheffield Trimming & Stamping Corp., 211 Centre St., New York, N. Y. "Stasco"**

**Stasco—see Sheffield Trimming & Stamping Corp.**

**Superior Coil Co., Harwichpoint, Mass.**

**Tridot Electric Co., 16 Hudson St., New York, N. Y.**

**United Radio Mfg. Co., 191 Greenwich St., New York, N. Y. "Victory"**

**Victory—see United Radio Mfg. Co.**

**HOLDERS, Plate Condenser—**

see Holders, Grid-Leak

**HOLDERS, Resistance—**see **Holders, Grid-Leak****HOLE CUTTERS, Panel—**see **Cutters, Panel Hole****HONEYCOMB COIL MOUNTINGS—**see **Mountings, Coil****HONEYCOMB COILS—**see **Coils, Inductance****HONEYCOMB INDUCTANCE COILS—**see **Coils, Inductance****HORNS, Composition**

*Loud Speaker Horns constructed of composition*  
 Carls, M. J., 1929 S. Los Angeles St., Los Angeles, Cal.  
 Chicago Signal Co., 312 S. Green St., Chicago, Ill.  
 Exceltone Radio Sales Co., 97 Wooster St., New York, N. Y.  
 Fetha-Stel Products Co., 569 W. Van Buren St., Chicago, Ill. "Hi Lo" "Master"  
*Cataloged on page* .....62  
 Fiber Products Co., 235 Elizabeth Ave., Newark, N. J.  
 Hardscog Mfg. Co., Ottumwa, Iowa.  
 Hawley—see Newcombe-Hawley, Inc.  
 Hi Lo—see Fetha-Stel Products Co.  
 Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.  
 Master—see Fetha-Stel Products Co.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Qualitone" "Muzada"  
 Muzada—see Mazda Radio Mfg. Co.  
 Newcombe-Hawley, Inc., 160 N. La Salle St., Chicago, Ill. "Hawley"  
 Newhall Chain Forge & Iron Co., 90 West St., New York, N. Y.  
 Parcels & Co., 68 W. Washington St., Chicago, Ill. "Temple"  
 Qualitone—see Mazda Radio Mfg. Co.  
 Temple—see Parcels & Co.  
 Winterrath Composition Amplifier Co., 405 Evergreen Ave., Brooklyn, N. Y. "Wundatone"  
 Wundatone—see Winterrath Composition Amplifier Co.

**HORNS, Fibre—**see **Horns, Composition****HORNS, Impregnated Textile**

*Loud Speaker Horns constructed of impregnated Textile*  
 Belltone Radio Mfg. Corp., 81 Crosby St., New York, N. Y.  
 Racon Electrical Co., 14 Greene St., New York, N. Y.  
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**HORNS, Metal**

*Loud Speaker Horns constructed of metal*  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Daniel Specialty Co., 5232 Melrose Ave., Los Angeles, Cal.  
 National Sheet Metal Co., 142 Market St., Newark, N. J.  
 Standard Metal Mfg. Co., 237 Chestnut St., Newark, N. J.  
 Steinen & Co., William, 293 Washington St., Newark, N. J.  
 Union Spinning & Plating Co., 67 Sudbury St., Boston, Mass.

**HORNS, Rubber**

*Loud Speaker Horns constructed of Hard Rubber*  
 American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"  
 Miller Rubber Co., of N. Y., S. High St., Akron, Ohio  
 Radion—see American Hard Rubber Co.

**HORNS, Wood**

*Loud Speaker Horns constructed of Wood*  
 Blandin Phonograph Co., Racine, Wis.  
 Compressed Wood Corp., 345-59 W. Austin Ave., Chicago, Ill. "Madera Clear-speaker"  
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 Dodge Sound Amplifiers Inc., 738 Main St., New Rochelle, N. Y.  
 Madera Clearspeaker—see Compressed Wood Corp.

**HYDROMETER SYRINGES—**see **Hydrometers, Battery Testing****HYDROMETERS, Battery Testing**

*Glass Tube, Float and Bulb for testing Specific Gravity of Storage Battery*  
 Acid Supply Utilities, 316 W. 24th St., Chicago, Ill. "Smash Pruf"  
 Ala Mfg. Co., 401 S. Sangamon St., Chicago, Ill.  
 American Thermo-Ware Co., 16 Warren St., New York, N. Y. "Indestructo"  
 Arco Thermometer Co., 290 Fifth Ave., New York, N. Y.  
 Ayanbee—see Scranton Glass Instrument Co.  
 Battery Equipment & Supply Co., 1638 S. Wabash Ave., Chicago, Ill. "Besco"  
 Beck Co., Oscar, 280 Maujer St., Brooklyn, N. Y.  
 Besco—see Battery Equipment & Supply Co.  
 Bilrite Motor Equipment Co., 145 W. 63d St., New York, N. Y. "Topsall"  
 Boss—see Edelmenn & Co.  
 Break-Not—see Edelmenn & Co.  
 Chaslyn Co., 4641 Ravenswood Ave., Chicago, Ill. "S O S"  
 Drip-pruf—see Hafner Mfg. Co.  
 Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.  
 Edelmenn & Co., E., 2332 Logan Blvd., Chicago, Ill. "Break-Not" "Boss" "Erco"  
 Esserman, Joseph, 243 W. 55th St., New York, N. Y. "Veribest" "Luxor"  
 Erco—see Edelmenn & Co.  
 Freas Glass Works, Francis L., Conshohocken, Pa.  
 Hafner Mfg. Co., 3128 Carroll Ave., Chicago, Ill. "Drip-pruf"  
 Hamilton Glass Instrument Co., Alexander, Conshohocken, Pa. "No-Leak-O"  
 In-A-Cap Hydrometer Co., 1343 W. 14th Pl., Chicago, Ill.  
 Indestructo—see American Thermo-Ware Co.  
 Industrial & Scientific Instrument Co., 9 N. Fifth St., Philadelphia, Pa. "Reliance"  
 Luxor—see Esserman, Joseph.  
 Moeller, A. E., 263 Sumpter Ave., Brooklyn, N. Y.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 No-Leak-O—see Hamilton Glass Instrument Co.  
 Reliance—see Industrial & Scientific Instrument Co.  
 Rieker Instrument Co., 1919 Fairmount Ave., Philadelphia, Pa.  
 Scranton Glass Instrument Co., Scranton, Pa. "Ayanbee"  
 Smash Pruf—see Acid Supply Utilities  
 S O S—see Chaslyn Co.

Testrite Instrument Co., 108 E. 16th St., New York, N. Y.  
 Topsall—see Bilrite Motor Equipment Co.  
 Veribest—see Esserman, Joseph  
 Victor Instrument Mfg. Co., 236 W. 55th St., New York, N. Y.  
 Workrite Mfg. Co., 1812 E. 30th St., Cleveland, Ohio

**IMPREGNATED HORNS—**see **Horns, Impregnated Textile****IMPREGNATING COMPOUNDS—**see **Compounds, Insulating****IMPREGNATING MACHINES—**see **Machines, Coil Impregnating****INDOOR AERIALS—**see **Aerials, Indoor**  
also **Aerials, Portable****INDOOR LIGHTNING ARRESTERS—**see **Arresters, Indoor Lightning****INDUCTANCE COILS—**see **Coils, Inductance****INDUCTANCE SWITCHES—**see **Switches, Inductance****INDUCTANCES—**see **Coils, Inductance****INDUCTANCES, Standard Unit**

*Standard Inductances for Laboratory Use*  
 Central Scientific Co., 460 E. Ohio St., Chicago, Ill.  
 General Radio Co., 30 State St., Cambridge, Mass.

**INDUCTANCES, Variable Transmitting**

*Variable Inductances for Transmitting Use*  
 Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
 Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "Rel"  
 Rel—see Radio Engineering Laboratories

**INITIALED BINDING POSTS—**see **Posts, Lettered Binding****INSTRUMENTS, Charge Indicating**

*see also Hydrometers, Battery Testing*  
 Beede Electrical Instrument Co., 136 Liberty St., New York, N. Y.  
 Bobber—see Eagle Carburetor Co.  
 Cellokay Mfg. Corp., Flatiron Bldg., New York, N. Y. "Cell-O-Meter"  
 Cell-O-Meter—see Cellokay Mfg. Corp.  
 Eagle Carburetor Co., W. Madison Ave., Cleveland, Ohio. "Bobber"  
 Ga-Jit—see General Instrument Corp.  
 General Instrument Corp., 479 Broadway, New York, N. Y. "Ga-Jit"  
 Lundquist Tool & Mfg. Co., Worcester, Mass. "Yankee"  
*Cataloged on page* .....35  
 Sterling Mfg. Co., 2831 Prospect Ave., Cleveland, Ohio  
 Yankee—see Lundquist Tool & Mfg. Co.



**INSTRUMENTS, Electrical Testing—**

see *Sets, Electrical Testing*

**INSTRUMENTS, Measuring—**

see *Ammeters and Voltmeters*

**INSTRUMENTS, Tube Testing**

*Complete Apparatus to test Vacuum Tubes for operating Characteristics*

Burton-Rogers Co., 26 Brighton Ave., Boston, Mass., (Sole distributors for Hoyte Electrical Instrument Works, Penacook, N. H.)

Collins Co., E. B., 214 W. Main St., Danville, Ill.

DeWitt-La France Co., Cambridge, Mass. "Superadio" Cataloged on page .....63

Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland, Ohio.

Hoyte Electrical Instrument Works—see Burton-Rogers Co.

Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.

Morrison Radio Laboratories, c/o Excelsior Cycle Co., Michigan City, Ind.

Peffer, R. M., 334 Chestnut St., Harrisburg, Pa.

Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio. Cataloged on page.....33

Superadio—see DeWitt-La France Co.

**INSULATED BINDING POSTS—**

see *Posts, Composition*

**INSULATED BUS-BAR WIRE—**

see *Wire, Insulated Bus-Bar*

**INSULATED LEADS-IN—**

see *Leads-in, Insulated*

**INSULATED SCREW-EYES—**

see *Screw-Eyes, Insulated*

**INSULATED WIRE—**

see *Wire*

**INSULATING COMPOUNDS—**

see *Compounds, Insulating*

**INSULATING TAPE—**

see *Tape, Insulating*

**INSULATING VARNISH—**

see *Varnish, Insulating*

**INSULATION, Composition**

*Sheet, Rod and Tube. For Molded Shapes—see Insulation, Molders of Composition; for Hard Rubber—see Rubber, Hard; for Vulcanized Fibre—see Fibre Vulcanized*

Bakelite Corp., 247 Park Ave., New York, N. Y. "Condensite" "Redmanol"

Bakelite-Dilecto—see Continental Fibre Co.

Celoron—see Diamond State Fibre Co.

Condensite—see Bakelite Corp.

Continental Fibre Co., Newark, Del. "Bakelite-Dilecto"

Diamond State Fibre Co., Bridgeport, Pa. "Celoron"

DuPont Viscoloid Co., Arlington, N. J. "Pyradiolin"

Fibroc Insulation Co., Valparaiso, Ind. Cataloged on page .....64

Formica Insulation Co., 4662 Spring Grove Ave., Cincinnati, Ohio

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Micarta—see Westinghouse Electric & Mfg. Co.

National Vulcanized Fibre Co. (Phenolic Products Division), Wilmington, Del. "Phenolite"

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Phenolite—see National Vulcanized Fibre Co.

Pyradiolin—see Du Pont Viscoloid Co.

Redmanol—see Bakelite Corp.

Spaulding Fibre Co., 308 Wheeler St., Tonawanda, N. Y.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. "Micarta" Cataloged on page.....34

**INSULATION, Fibre—**

see *Fibre, Vulcanized*

**INSULATION, Hard Rubber—**

see *Rubber, Hard*

**INSULATION, Molders of**

**Composition**

*Contract Companies having facilities for Molding Composition; for Molders of Porcelain—see Insulation, Molders of Porcelain*

Aico—see American Insulator Corp.

American Electric Co., 22 Prospect St., Newark, N. J. "Ameroid"

American Insulator Corp., 52 Vanderbilt Ave., New York, N. Y. "Aico"

American Metal Works, 48 Stenton Ave., Philadelphia, Pa.

Ameroid—see American Electric Co.

Auburn Button Works, 48 Canoga St., Auburn, N. Y.

Automatic Molded Products Co., 280 Pas-saic St., Newark, N. J.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt. "Bremco"

Boonton Molding Co., Myrtle Ave., Boonton, N. J.

Boonton Rubber Mfg. Co., 223 Fanny Rd., Boonton, N. J.

Bremco—see Bennington Radio & Electric Mfg. Co.

Cetec—see Connecticut Telephone & Electric Co.

Chicago Moulded Products Co., 2149 Walnut St., Chicago, Ill.

Cincinnati Molding Co., 2037 Florence Ave., Cincinnati, Ohio

Compo-site, Inc., 207 Astor St., Newark, N. J.

Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn. "Cetec"

Dayton Insulating Molding Co., 310 E. Second St., Dayton, Ohio. "Dimco"

Diemoulding Production Co., Rasbach St., Canastota, N. Y.

Dimco—see Dayton Insulating Molding Co.

Dutch Boy—see National Lead Co.

Electrose—see Insulation Mfg. Co.

Garfield Mfg. Co., Garfield, N. J. "Gummon"

General Insulate Co., 1008 Atlantic Ave., Brooklyn, N. Y. "Insulate" "Hi-Heat" "Star Insulate"

Gray & Danielson Mfg. Co., 250 First St., San Francisco, Cal.

Gummon—see Garfield Mfg. Co.

Hi-Heat—see General Insulate Co.

Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.

Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.

Ingham-Gillingham Corp., 51 Barclay St., New York, N. Y.

Insulate—see General Insulate Co.

Insulation Mfg. Co., 70 Washington St., Brooklyn, N. Y. "Electrose"

Insulation Products Co., (Homewood Sta.) Pittsburgh, Pa.

International Insulating Corp., Olive St., Elyria, Ohio

Johns-Pratt Co., Hartford, Conn.

Kurz-Kasch Co., Dayton, Ohio Cataloged on page.....58

Lacante—see Scranton Button Co.

Mack Molding Co., Little Falls, N. J.

Megohmo—see Waterbury Button Co.

Moulded Products Corp., 549 W. 52d St., New York, N. Y. Cataloged on page.....65

Nagel Electric Co., W. G., 511 Hamilton St., Toledo, Ohio.

National Lead Co., 111 Broadway, New York, N. Y. "Dutch Boy"

Niagara Insul-Bake Specialty Co., 483 Delaware Ave., Albany, N. Y.

Northern Industrial Chemical Co., 11 Elkins St., Boston, Mass.

Norton Laboratories, Inc., 1025 Mill St., Lockport, N. Y. Cataloged on page.....65

Parkin Mfg. Co., Grand Ave., San Rafael, Cal.

Pioneer Radio Corp., Plano, Ill.

Prufen Composition Products Corp., Milford, Conn. "Pruvenite"

Pruvenite—see Prufen Composition Products Corp.

Rawson Moulding Co., 24 Pine St., Wal-tham, Mass.

Recto Mfg. Co., 23 W. Third St., Cincinnati, Ohio.

Renolite—see Reynolds Spring Co.

Reynolds Spring Co., Jackson, Mich. "Renolite"

Ridgely Trimmer Co., Springfield, Ohio.

Saal Co., H. G., 1800 Montrose Ave., Chi-cago, Ill.

Scranton Button Co., Scranton, Pa. "Lacante"

Slemon Co., State St. & Baum Blvd., Bridgeport, Conn.

Specialty Insulation Mfg. Co., Hoosick Falls, N. Y.

Splittdorf Electrical Co., 392 High St., Newark, N. J.

Star Insulate—see General Insulate Co.

Universal Insulation Co., 215 Emmet St., Newark, N. J.

Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.

Walsh & Co., John F., 393 Seventh Ave., New York, N. Y.

Waterbury Button Co., Waterbury, Conn. "Megohmo" Cataloged on page.....66

**INSULATION, Molders of**

**Porcelain**

*Contract Companies having facilities for Molding Special Porcelain: for Molders of Composition—see Insulation, Molders of Composition*

Colonial Insulator Co., 943 Grant St., Akron, Ohio.

Cook Pottery Co., Prospect St. & P. & R. R., Trenton, N. J.

Electric Porcelain & Mfg. Co., Trenton, N. J.

Mogadore Insulation Co., Mogadore, Ohio.

Star Porcelain Co., Trenton, N. J.

**INSULATION MOLDING**

**MACHINES—**

see *Machines, Plastic Molding*

**INSULATION, Rubber—**

see *Rubber, Hard*

**INSULATION STRIPPERS—**

see *Tools, Wire Stripping*

**INSULATION, Synthetic Quartz**

Insolantite Co. of America, 343 Cortlandt St., Belleville, N. J.

**INSULATOR BRACKETS, Antenna—**

see Brackets, Antenna Insulator

**INSULATORS, Antenna—**

see Insulators, Composition  
also Insulators, Glass  
also Insulators, Lava  
also Insulators, Porcelain

**INSULATORS, Composition and Hard Rubber Antenna**

*Insulators for Aerials, Lead-in Wires, Guy Wires, etc., made of Composition and Hard Rubber; see also Insulation, Molders of Composition; also Rubber, Hard*

American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"  
Antenna Insulator Co., 15 Bagley St., Pawtucket, R. I. "Dry Gap"  
Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
Compo-site, Inc., 207 Astor St., Newark, N. J. "Premier"  
Dry-Gap—see Antenna Insulator Co.  
Electrose—see Insulation Mfg. Co.  
General Insulate Co., 1008 Atlantic Ave., Brooklyn, N. Y.  
Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.  
Insulating Company of America, (Radio Panel & Parts Div.) 59 Warren St., New York, N. Y.  
Insulation Mfg. Co., 70 Washington St., Brooklyn, N. Y. "Electrose"  
Johns-Pratt Co., Hartford, Conn.  
Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
Premier—see Compo-site, Inc.  
Radion—see American Hard Rubber Co.  
Waterbury Button Co., Waterbury, Conn.

**INSULATORS, Fibre—**

see Fibre, Vulcanized

**INSULATORS, Glass Antenna**

*Insulators for Aerials, Leads-in, Guy Wires, etc., made of Glass*

Benzer Corp., 87 Cooper Ave., Brooklyn, N. Y.  
Corning Glass Works, Corning, N. Y. "Pyrex"  
Fleron & Son, M. M., 113 N. Broad St., Trenton, N. J.  
Hemingray Glass Co., Macedonia Ave., Muncie, Ind.  
Little Atlas—see Swan-Haverstick, Inc.  
Lynchburg Glass Corp., Lynchburg, Va.  
Macbeth-Evans Glass Co., (Eastern Division), Charleroi, Pa.  
Marsden Glass Works, J. E., Ambler, Pa. "Tufglass"  
McKee Glass Co., Jeannette, Pa.  
McLaughlin Glass Co., 1900 E. 52d St., Los Angeles, Cal.  
Pyrex—see Corning Glass Works  
Sneath Glass Co., Hartford City, Ind.  
Spencer Lens Co., Hamburg, N. Y.  
Swan-Haverstick, Inc., 143 E. State St., Trenton, N. J. "Little Atlas"  
Tuf'glass—see Marsden Glass Works  
V'heaton Co., T. C., Millville, N. J.

**INSULATORS, Hard Rubber—**

see Rubber, Hard

**INSULATORS, Lava Antenna**

*Special Insulator Forms cut to shape and made of Lava*

American Lava Corp., 24 William St., Chattanooga, Tenn.  
Tennessee Burner Mfg. Co., Chattanooga, Tenn. "XL"  
XL—see Tennessee Burner Mfg. Co.

**INSULATORS, Lead-in Pedestal**

*Wall mounting insulators for aerial lead—in wire*

Barkeley Electric Mfg. Co., Middletown, Ohio.

**INSULATORS, Porcelain Antenna**

*Insulators for Aerials, Leads-in, Guy Wires, etc., made of Porcelain*

Adamant Porcelain Co., East Liverpool, Ohio  
American Porcelain Co., 220 Second St., East Liverpool, Ohio  
Carey Ohio Porcelain Co., Carey, Ohio  
Circle F Mfg. Co., 720 Monmouth St., Trenton, N. J. "Little Joe"  
Circle T—see Trumbull Electric Mfg. Co.  
Colonial Insulator Co., 943 Grant St., Akron, Ohio  
Cook Porcelain Insulator Corp., Cambridge, Mass.  
Davidson Porcelain Co., East Liverpool, Ohio  
Fedco—see Federal Porcelain Co.  
Federal Porcelain Co., Carey, Ohio "Fedco"  
Findlay Electric Porcelain Co., Findlay, Ohio  
Fleron & Son, M. M., 113 N. Broad St., Trenton, N. J.  
G. P. Co.—see General Porcelain Co.  
General Porcelain Co., Camden Ave., S. S., Parkersburg, W. Va. "G. P. Co."  
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
H & H—see Hart & Hegeman Mfg. Co.  
Illinois Electric Porcelain Co., Macomb, Ill.  
Imperial Porcelain Works, Mulberry St. & New York Ave., Trenton, N. J.  
Little Joe—see Circle F Mfg. Co.  
Mogadore Insulator Co., Mogadore, Ohio  
Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
Pearl Co., Wm. H., 425 Harmon St., Indianapolis, Ind.  
Square D Co., 6060 Rivard St., Detroit, Mich.  
Swan-Haverstick, Inc., 143 E. State St., Trenton, N. J.  
Thomas & Sons Co., R., East Liverpool, Ohio  
Trenle Porcelain Co., East Liverpool, Ohio  
Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T"  
Union Electrical Porcelain Works, 119 Hamilton Ave., Trenton, N. J.  
Whitehall Insulators, 4 Blount St., Whitehall, N. Y.  
Wirt Co., 5221 Greene St., Philadelphia, Pa.

**INSULATORS, Rubber—**

see Rubber, Hard

**INVISIBLE HINGES—**

see Hinges, Cabinet

**IRONS, Copper Soldering—**

see Coppers, Soldering

**IRONS, Electric Soldering**

*Soldering Irons equipped with an electric Heating element; for Copper Soldering Irons—see Coppers, Soldering*

Acme Electric Heating Co., 1217 Washington Ave., Boston, Mass.  
Adroit Tool Co., 14 Front St., New York, N. Y.  
Alco Electric Co., 234 Bloomfield Ave., Caldwell, N. J.  
Ambu—see American Bureau of Engineering  
American Beauty—see American Electrical Heater Co.  
American Bureau of Engineering, 2632 Prairie Ave., Chicago, Ill. "Ambu"  
American Electrical Heater Co., 6125 Woodward Ave., Detroit, Mich. "American Beauty"  
Baco Electric Co., Bode, Iowa  
B-D—see Bleadon-Dun Co.  
Beehler Steel Products Co., 1439 N. 13th St., St. Louis, Mo. "Solderette"  
Bleadon-Dun Co., 2300 Warren Ave., Chicago, Ill. "B-D"  
Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
Central Flatiron Mfg. Co., Johnson City, N. Y.  
Chapman Machine Co., Terryville, Conn.  
Dover Mfg. Co., Dover, Ohio  
Drake Electric Works, 3943 Lincoln Ave., Chicago, Ill. "Junior"  
Duratron Products Corp., 539 Lewis St., Union City, N. J. "Duro" "Permo"  
Duro—see Duratron Products Corp.  
Dymac—see Electrical Products Mfg. Co.  
Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.  
Edison Electric Appliance Co., 5600 W. Taylor St., Chicago, Ill. "Hotpoint"  
Electrahot Mfg. Co., 525 S. Fourth St., Minneapolis, Minn.  
Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
E & R—see Gold Seal Electric Co.  
Everhot—see Swartzbaugh Mfg. Co.  
Everhot Mfg. Co., Tenth Ave. & Seventh St., Maywood, Ill.  
General Electric Co., 1 River Rd., Schenectady, N. Y.  
Gold Seal Electric Co., 7480 Stanton Ave., Cleveland, Ohio. "E & R"  
Hotpoint—see Edison Electric Appliance Co.  
Illinois Stamping & Mfg. Co., 220 N. Jefferson St., Chicago, Ill.  
Junior—see Drake Electric Works  
Lake—see Westwyre Co.  
Landers, Frary & Clark, New Britain, Conn. "Universal" "Reliance"  
Liberty Works, 200 Fifth Ave., New York, N. Y.  
Manning, Bowman & Co., Meriden, Conn.  
Mecky Co., A., 1705 W. Allegheny Ave., Philadelphia, Pa.  
Metaelectric—see Post Electric Co.  
National Specialties Co., Fort Wayne, Ind.  
National Stamping & Electric Works, 3212 W. Lake St., Chicago, Ill. "White Cross"  
Northern Electric Co., 2835 Northwestern Ave., Chicago, Ill.  
Pal Radio Co., 1204 Summit Ave., Jersey City, N. J.  
Pennsylvania Instrument Co., 616 Chestnut St., Philadelphia, Pa.  
Permway Electric Mfg. Co., 2129 Pine St., St. Louis, Mo.  
Permo—see Duratron Products Corp.  
Post Electric Co., 30 E. 42d St., New York, N. Y. "Metaelectric"  
Radiogem Corp., 66 W. Broadway, New York, N. Y.  
Reliance—see Landers, Frary & Clark  
Rex—see Russell Electric Co.  
Russell Electric Co., 340 W. Huron St., Chicago, Ill. "Rex"  
Security Electric Mfg. Co., 2635 Cantor St., Chicago, Ill.

Simplex Electric Heating Co., 85 Sidney St., Cambridge, Mass.  
 Solderette—see Beehler Steel Products Co.  
 Splittorf Electrical Co., 392 High St., Newark, N. J.  
 Sterling Electrical Corp., 2711 Church Ave., Cleveland, Ohio  
 Superior Electric Products Co., 2208 Pine St., St. Louis, Mo.  
 Swartzbaugh Mfg. Co., Toledo, Ohio. "Everhot"  
 Torrid—see Wolcott Mfg. Co.  
 Universal—see Landers, Frary & Clark  
 Varick Electric Mfg. Co., 324 W. 42d St., New York, N. Y.  
 Vulcan Electric Heating Co., 107 W. 13th St., New York, N. Y.  
 Waage, A. H., 112 Chambers St., New York, N. Y.  
 Ward Co., 937 Wellington Ave., Chicago, Ill.  
 Watlow Electric Mfg. Co., 1320 N. 23d St., St. Louis, Mo.  
 Wellmade Electric Mfg. Co., Torrington, Conn.  
 Westwyre Co., 283 Elm St., Westfield, Mass. "Lake"  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 White Cross—see National Stamping & Electric Works  
 Wolcott Mfg. Co., Frank E., Hartford, Conn. "Torrid"

**JACK BINDING POSTS—**

see Posts, Jack Binding

**JACK NAME PLATES—**

see Plates, Jack Name

**JACK SWITCHES—**

see Switches, Cam

**JACK WRENCHES—**

see Wrenches, Jack

**JACKS, Closed Circuit—**

see Jacks, Phone

**JACKS, Cord Tip**

*Small individual Jacks for Cord Tips; for Phone Jacks—see Jacks, Phone; for Cord Tips—see Tips, Cord*

Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"  
 B.M.S.—see Brooklyn Metal Stamping Corp.  
 Brooklyn Metal Stamping Corp., 718-23 Atlantic Ave., Brooklyn, N. Y. "B.M.S."  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Cataloged on page.....86  
 Imp—see Carter Radio Co.  
 McCall Novelty Co., 631 W. Edwards St., Springfield, Ill.  
 Na-ald—see Alden Manufacturing Co.  
 Union Radio Corp., 124 Sussex Ave., Newark, N. J.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**JACKS, Double Circuit—**

see Jacks, Phone

**JACKS, Extension or Portable**

*Small Jacks for use with extension Cords; for Jacks for Panel Mounting—see Jacks, Phone*

Birnback Radio Co., 370 Seventh Ave., New York, N. Y.  
 Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.  
 Four Way Co., 29 Worthington St., Springfield, Mass.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Cataloged on page.....86  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**JACKS, Filament Control—**

see Jacks, Phone

**JACKS, Open Circuit—**

see Jacks, Phone

**JACKS, Phone**

*Small Jacks for Panel Mounting; for Jacks for Cord Mounting—see Jacks, Extension or Portable*

Adams Radio Mfg. Co., 1044 W. Van Buren St., Chicago, Ill.  
 Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 American Electric Co., 6401 S. State St., Chicago, Ill.  
 Anticap—see Electric City Novelty & Mfg. Co.  
 Barnes Co., Wallace, Bristol, Conn.  
 Bennington Radio & Electric Mfg. Co.; 522 Main St., Bennington, Vt. "Bremco"  
 Bestone—see Hyman & Co.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 B. M. S.—see Brooklyn Metal Stamping Corp.  
 Branston, Chas. A., 815 Main St., Buffalo, N. Y.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Bremco—see Bennington Radio & Electric Mfg. Co.  
 Brooklyn Metal Stamping Corp., 718-23 Atlantic Ave., Brooklyn, N. Y. "Tri-Jack" "B.M.S."  
 Cardinal—see Fischer Spring Co.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Hold-Tite"  
 Central Radio Corp., Roosevelt Ave. & Fifth St., Beloit, Wis. "CRC"  
 Chelton Electric Co., 4861 Stenton Ave., Philadelphia, Pa.  
 Cico—see Consolidated Instrument Co. of America.  
 Consolidated Instrument Co. of America, 41 E. 42d St., New York, N. Y. "Cico"  
 CRC—see Central Radio Corp.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Dymac—see Electrical Products Mfg. Co.  
 Electrad, Inc., 428 Broadway, New York, N. Y.  
 Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Anticap"  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fenton, N., 57 Murray St., New York, N. Y.  
 Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y. "Cardinal"  
 Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"

Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill. "Gem-Jac"  
 Cataloged on page.....86  
 Gem-Jac—see Frost, Inc.  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 Grosser Sons Co., B., 55 Sudbury St., Boston, Mass.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Hold-Tite—see Carter Radio Co.  
 Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Kings Mfg. Co., 32 33d St., Brooklyn, N. Y.  
 Leich Electric Co., Genoa, Ill.  
 Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.  
 Mar-Co—see Martin-Copeland Co.  
 Marion Electrical Mfg. Co., 24 Cliff St., Jersey City, N. J.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Muzada"  
 Metro Electric Mfg. Co., 123 Prince St., New York, N. Y. "Ne-Plus-Ultra"  
 Millimeter Machine Works, 542 W. 22d St., New York, N. Y.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Muzada—see Mazda Radio Mfg. Co.  
 Ne-Plus-Ultra—see Metro Electric Mfg. Co.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Paterson Radio Co., 213 Market St., Paterson, N. J.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Prall Co., B. W., 160 College Ave., West New Brighton, S. I., N. Y.  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.  
 Reliance Die & Stamping Co., 501 N. La Salle St., Chicago, Ill.  
 Saturn Mfg. & Sales Co., 48 Beekman St., New York, N. Y.  
 Schiff Laboratories, 283 Glenwood Ave., Bloomfield, N. J.  
 Sharp Spark Plug Co., Bennett St., Wellington, Ohio "Anticap"  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Teleradio Engineering Corp., 490 Broome St., New York, N. Y.  
 Tri-Jack—see Brooklyn Metal Stamping Corp.  
 Union Radio Corp., 124 Sussex Ave., Newark, N. J.  
 Un-X-Ld—see Forman & Co.  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
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 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**JACKS, Wall Receptacle**

*For use in wiring building for Radio Service*

Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.  
 Connecticut Electric Mfg. Co., Bridgeport, Conn.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**JAPANS, Black—**

see Lacquers, Crystallizing



**JARS, Glass Battery**

*Glass Storage Battery Jars; for Glass Tubes for Storage B Batteries—see Tubes, Glass Test*

Atlas—see Hazel-Atlas Glass Co.  
Corning Glass Works, Corning, N. Y.  
Hazel-Atlas Glass Co., Wheeling, W. Va.  
"Atlas"

**JARS, Rubber Battery**

*Glass Storage Battery Jars; for Glass Battery Jars—see Jars, Glass Battery*

Hood Rubber Co. (Hard Rubber Dept.), Watertown, Mass.  
Cataloged on page.....87  
Rub-Tex Products, Inc., 3500 E. 20th St., Indianapolis, Ind.  
United States Rubber Co., 1790 Broadway, New York, N. Y.

**JIGS, Coil Winding**

*Fixtures for winding Coils of various Diameters*

Visto Products Co., 14 150th St., Jamaica, N. Y.

**JIGS, Dies and Fixtures**

Fenton Machine Tool & Die Co., Fenton, Mich.

Hershey Metal Products Co., Seymour Ave., & Hawkins St., Derby, Conn.

Kings Mfg. Co., 32 33d St., Brooklyn, N. Y.

Lamb Co., F. Jos., 6343 Wight St., Detroit, Mich.

Lundquist Tool & Mfg. Co., Worcester, Mass.

Metalcraft & Tool Co., 202 Pennsylvania Ave., Hillside, N. J.

Moeller Machine Co., 2714 S. Canal St., Chicago, Ill.

Mucher, John J., 109 Lafayette St., New York, N. Y.

Nielson & Wilson Tool Co., 133 Sheldon St., Hartford, Conn.

United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio

**JIGS, Mounting**

Bridgeport Hardware Mfg. Corp., Iransitan Ave., Bridgeport, Conn. "Radio-Lectric"

Radio-Lectric—see Bridgeport Hardware Mfg. Corp.

**KEYS, Anti-Capacity—**

see Switches, Cam

**KEYS, Telegraph—**

see Keys, Transmitting

**KEYS, Transmitting**

*Keys for controlling Code Output of Transmitting Station*

Ajax Electric Co., 18 Palmer St., Cambridge, Mass.

Bunnell & Co., J. H., 32 Park Pl., New York, N. Y. "Gold Bug"

Gold Bug—see Bunnell & Co.

Signal Electric Mfg. Co., 1915 Broadway, Menominee, Mich.

Vibroplex Co., 825 Broadway, New York, N. Y.

**KITS, Antenna—**

see Aerials  
also Wire

**KITS, B Battery Eliminator—**

see Rectifiers, Knockdown Plate Current Supply

**KITS, Neutrodyne—**

see Sets, Knockdown

**KITS, Tuned Radio Frequency—**

see Sets, Knockdown

**KNIFE SWITCHES—**

see Switches, Baby Knife  
also Switches, Miniature Knife  
also Switches, Standard Knife

**KNOBS, Composition—**

see Dials, Rubber  
also Insulation, Molders of Composition

**KNOBS, Dial—**

see Dials, Rubber  
also Insulation, Molders of Composition

**KNOBS, Porcelain Wiring**

*Cylindrical Insulators made of Porcelain with center nail for mounting Lead-in Wires, Electric Light Circuits, etc.; for Rectangular Split Insulators—see Cleats, Porcelain*

Adamant Porcelain Co., East Liverpool, Ohio.

Bull Dog—see Illinois Electric Porcelain Co.

Carey Ohio Porcelain Co., Carey, Ohio

Circle F. Mfg. Co., 720 Monmouth St., Trenton, N. J.

Davidson Porcelain Co., East Liverpool, Ohio "Ever-Ready"

Emily—see Findlay Electric Porcelain Co.

Ever-Ready—see Davidson Porcelain Co.

Fedco—see Federal Porcelain Co.

Federal Porcelain Co., Carey, Ohio. "Fedco"

Findlay Electric Porcelain Co., Findlay, Ohio. "Emily"

General Porcelain Co., Camden Ave., S. S. Parkersburg, W. Va. "Naillit"

Illinois Electric Porcelain Co., Macomb, Ill. "Bull Dog"

Mogadore Insulator Co., Mogadore, Ohio

Naillit—see General Porcelain Co.

Paulding, Inc., John I., New Bedford, Mass.

**KNOBS, Rubber—**

see Dials, Rubber  
also Insulation, Molders of Composition

**KNOCKDOWN BATTERY****ELIMINATOR KITS—**

see Rectifiers, Knockdown Plate Current Supply

**KNOCKDOWN CABINETS—**

see Cabinets, Knockdown

**KNOCKDOWN PLATE****CURRENT SUPPLY****RECTIFIERS—**

see Rectifiers, Knockdown Plate Current Supply

**KNOCKDOWN STORAGE****BATTERIES—**

see Batteries, Knockdown Storage

**LACQUERS, Crystallizing**

Hilo Varnish Corp., Gerry St., Brooklyn, N. Y.

**LAMINATED PANELS—**

see Insulation, Composition

**LAMP CORD—**

see Cord, Flexible Lamp

**LATTICED STEEL POLES—**

see Poles, Steel  
also Towers, Steel

**LAVA INSULATORS—**

see Insulators, Lava Antenna

**LEAD-IN CONNECTORS,****Solderless—**

see Connectors, Solderless Lead-in

**LEAD-IN INSULATORS—**

see Insulators, Lead-in Pedestal

**LEAD-IN WIRE—**

see Wire, Rubber Covered

**LEADS-IN, Insulated**

*Special Forms of Insulated Metal for use as convenient Lead-in Wires under Windows, Doors or through Walls*

Ajax Electric Co., 18 Palmer St., Cambridge, Mass. "New Way"

Amoroso Mfg. Co., 60 India St., Boston, Mass. "Nifty"

Aurora Electric Co., 14 Dunham Pl., Brooklyn, N. Y.

Boston—see Hearwell Electric Co.

Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.

Daval Mfg. Co., 171 Seventh Ave., New York, N. Y.

Eagle Electric Mfg. Co., 59 Hall St., Brooklyn, N. Y.

Electrad, Inc., 428 Broadway, New York, N. Y.

Fahnestock Electric Co., Long Island City, N. Y.

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Florence Products Co., 94 Portland St., Boston, Mass. "Hercules"

Forbes—see Hearwell Electric Co.

Hargraves, C. E. & H. T., 1103 Warwick Ave., Lakewood, R. I.

Hearwell Electric Co., 53 Devonshire St., Boston, Mass. "Boston" "Forbes"

Hercules—see Florence Products Co.

Lenz—see Permanco Mfg. Corp.

Mast Lightning Rod Co., (Radio Accessory Div.) West Milton, Ohio

M & M Co., 500 Prospect Ave., Cleveland, Ohio

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Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.

Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa

Mucher, John J., 109 Lafayette St., New York, N. Y.

Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.

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New Way—see Ajax Electric Co.

Nifty—see Amoroso Mfg. Co.

Permanco Mfg. Corp., 814 Prospect Ave., Brooklyn, N. Y. "Premo" "Lenz"

Premo—see Permanco Mfg. Corp.

Swan-Haverstick, Inc., 143 E. State St., Trenton, N. J.

Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.

Tridot Electric Co., 16 Hudson St., New York, N. Y.

Winsor & Whitford, Wolcott, N. Y.

**LEAKS, Grid—**

see Grid-Leaks

**LEATHER COVERED CABINETS—**

see Cabinets, Fabric

**LETTERED BINDING POSTS—**

see Posts, Lettered Binding

**LEVER SWITCH CONTACTS—**

see Contacts, Switch

**LEVER SWITCHES—**

see Switches, Panel Lever

**LIGHT SWITCHES, Combination Pilot—**

see Switches, Combination Pilot Light

**LIGHTERS, Battery Cigar**

*Complete Cigar Lighters operated from a Storage Battery and for mounting on a Radio Panel*

Aldrege Co., 81 John St., New York, N. Y.

Cuno Engineering Corp., Meriden, Conn.

Edelmann & Co., E., 2332 Logan Blvd., Chicago, Ill. "Gem"

Gem—see Edelmann & Co.

Hot-Spot—see Premier Electric Co.

Litchfield Corp., 25 Dey St., New York, N. Y.

Manning, Bowman & Co., Meriden, Conn.

Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Hot-Spot."

Remo Corp., Meriden, Conn. "Remoliter"

Remoliter—see Remo Corp.

Starbuck Mfg. Co., Cambridge St., Meriden, Conn.

**LIGHTNING ARRESTERS—**

see Arresters, Indoor Lightning  
see Arresters, Outdoor Lightning

**LIGHTNING SWITCHES—**

see Switches, Lightning

**LIGHTS, Panel**

*For use as Signal Lamps indicating Operation of Set or to illuminate the Aals; for Combination Pilot Light and Switch—see Switches, Combination Pilot Light*

Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Dialite"

Dialite—see Carter Radio Co.

Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

Walbert Mfg. Co., 925 Wightwood Ave., Chicago, Ill.

Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**LIQUID PANEL SHIELDING—**

see Shielding, Liquid Panel

**LIQUID SPAGHETTI—**

see Varnish, Insulating

**LITZ WIRE—**

see Wire, Covered Stranded Enameled

**LOCK SWITCHES—**

see Switches, Lock

**LOCK WASHERS—**

see Washers, Lock

**LOCKING BATTERY SWITCH—**

see Switches, Lock

**LOOP AERIALS—**

see Aerials, Portable

**LOOPS—**

see Aerials, Portable

**LOUD SPEAKER ATTACHMENTS—**

see Adapters, Radio Phonograph  
also Units, Loud Speaker

**LOUD SPEAKER COMPARING SWITCHES—**

see Switches, Multiple Speaker Testing

**LOUD SPEAKER UNITS—**

see Units, Loud Speaker

**LOUD SPEAKERS—**

see Adapters, Phonograph  
also Horns  
also Speakers, Loud  
also Units, Loud Speaker

**LUGS, Soldering—**

see Terminals, Wire

**LUGS, Wire Terminal—**

see Terminals, Wire

**MACHINE SCREWS—**

see Screws, Brass Machine

**MACHINES, Coil Impregnating**

*Complete Apparatus for insulating Windings with impregnating "Dope" for protection against Short Circuits*

Stokes Machine Co., F. J., Tabor Rd. & Cedar Grove Sta., Philadelphia, Pa.

**MACHINES, Coil Winding**

*For forming Coils by Machinery; for small Hand Machines—see Winders, Coil*  
Able Tool & Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"

American Insulating Machine Co., Fairhill & Huntington Sts., Philadelphia, Pa.

Atec—see Able Tool & Engineering Co.  
Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Eisler Engineering Co., 750 S. 13th St., Newark, N. J.

Eureka Tool & Machine Co., 42 Walnut St., Newark, N. J.

Hunsdorf & Co., W. P., 720 Frankfort Ave., Cleveland, Ohio

Lubree Mfg. Co., 210 Canal St., New York, N. Y.

Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa

Radio Production Machinery Co., 212 Centre St., New York, N. Y.

Radio Research Corp., 15 Park Row, New York, N. Y.

Weber & Scher Mfg. Co., 263 Sussex Ave., Newark, N. J. "Webscher"

Webscher—see Weber & Scher Mfg. Co.

Weehawken Electric & Mfg. Co., 543 Gregory Ave., Weehawken, N. J. "Wemco"

Wemco—see Weehawken Electric & Mfg. Co.

**MACHINES, Engraving**

*For marking and engraving Designs on Panels*

Branch Tool Co., Forestdale, R. I.

Deckel—see Preis & Co.

Engravers & Printers Machinery Co., Sag Harbor, N. Y.

Engraving Corp., 90 West St., New York, N. Y.

Gorton Machine Co., George, 1107 13th St., Racine, Wis.

Preis & Co., Hans P., 9 Campbell St., Newark, N. J. "Deckel"

Williams Engraving Machine Co., C. F., 38 Chardon St., Boston, Mass.

**MACHINES, Eyelet Setting**

*Hand or Power Machines for handling Rivets, Eyelets, Grommets, etc.*

Peerless Machinery Co., 44 Binford St., Boston, Mass.

Stimpson Co., Edwin B., 74 Franklin Ave., Brooklyn, N. Y.

**MACHINES, Plastic Molding**

*Apparatus for molding plastic Compounds by pressure into radio parts*

Elmes Engineering Works, Charles F., 211 N. Morgan St., Chicago, Ill.

Hydraulic Press Mfg. Co., Mount Gilead, Ohio

Terkelson Machine Co., 320 A St., Boston, Mass.

**MACHINES, Riveting—**

see Machines, Eyelet Setting

**MACHINES, Tube Building**

Eisler Engineering Co., 746 S. 13th St., Newark, N. J.

**MACHINIST VISES—**

see Vises, Machinist and Bench

**MACHINISTS' HAMMERS—**

see Hammers, Pein

**MACHINISTS' SCRIBERS—**

see Scribers, Machinists'

**MAGNET WIRE—**

see Wire, Cotton or Silk Covered Magnet.

also Wire, Enameled Magnet  
see Modulators, Magnetic

**MAGNETS, Permanent**

*Concerns manufacturing Permanent Magnets according to sketch or specifications*

Bullens Co., D. K., Madison St., Pottstown, Pa.

Indiana Steel Products Co., 4545 S. Western Blvd., Chicago, Ill.

Catalogued on page.....67

Thomas & Skinner Steel Products Co., Empire & Harmon Sts., Indianapolis, Ind.

**MARKERS, Cable**

*Small Clips placed on Battery Leads for determining their identity*

American Radio Hardware Co., 203 Lafayette St., New York, N. Y.

Crowe Name Plate & Mfg. Co., 1749 Grace St., Chicago, Ill.

Cataloged on page.....67

Etching Co. of America, 1520 Montana St., Chicago, Ill.

General Etching & Mfg. Co., 3070-3082 W. Grand Blvd., Chicago, Ill.

Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill.

Patton-MacGuyver Co., Baker St. & Virginia Ave., Providence, R. I.

Radio Co., 3819 N. Cicero Ave., Chicago, Ill. "Safety First"

Safety First—see Radio Co.

Whitehead & Hoag Co., 272 Sussex Ave., Newark, N. J.

Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**MASTS, Aerial—**

see Poles, Steel  
also Towers, Steel

**MASTS, Antenna—**

see Poles, Steel  
also Towers, Steel

**MASTS, Steel—**

see Poles, Steel  
also Towers, Steel

**MATS, Rubber Battery**

*Small rubber Mats for use under Batteries for protecting Floors and Furniture from accidentally spilled electrolyte; for Battery Trays—see Trays. Rubber Battery, also Trays, Glass Battery*

Ajax—see Philmore Mfg. Co.

Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Victor Instrument Mfg. Co., 236 W. 55th St., New York, N. Y.

Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

**MEASURING INSTRUMENTS—**

see Ammeters and Voltmeters

**MECHANICAL RECTIFIERS—**

see Rectifiers, Battery Charging  
Vibrator

**METAL BINDING POSTS—**

see Posts, Metal

**METAL DIALS—**

see Dials, Metal

**METAL DIAPHRAGMS—**

see Diaphragms, Metal

**METAL HORNS—**

see Horns, Metal

**METAL PANELS—**

see Panel, Metal

**METAL SHEARS—**

see Shears and Snips, Metal

**METAL SNIPS—**

see Shears and Snips, Metal

**METAL SOCKETS—**

see Sockets

**METAL STAMPINGS—**

see Stampings, Metal

**METERS, Audibility**

*Variable Shunt Resistances for comparing Audibilities of Signals*

General Radio Co., 30 State St., Cambridge, Mass.

**METERS, Ohm—**

see Ohmmeters

**METERS, Wave**

*Small indicating Instruments to calibrate Wave Length*

Cambridge Instrument Co., Spring St., Ossining, N. Y.

Ensign—see Hayes Products Co.

Firth Radio Corp., 25 Beaver St., New York, N. Y. "Seibt"

General Radio Co., 30 State St., Cambridge, Mass.

Hanscom Radio Devices, Woonsocket, R. I. "Superunit"

Cataloged on page.....68

Hayes Products Co., 1301 Fulton St., Grand Haven, Mich. "Ensign"

Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.

Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "REL"

REL—see Radio Engineering Laboratories

Seibt—see Firth Radio Corp.

Superunit—see Hanscom Radio Devices

Wimco—see Wireless Mfg. Co.

Wireless Mfg. Co., 619 Fourth St., Canton, Ohio "Wimco"

**MICA CONDENSERS—**

see Condensers, Fixed  
also Condensers, Filter

**MICA DIAPHRAGMS—**

see Diaphragms, Mica

**MICA, Sheet and Tube**

American Mica Works, 47 West St., New York, N. Y.

Asheville Mica Co., Biltmore, N. C.

Brand & Co., William, 27 E. 22d St., New York, N. Y.

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Chicago Mica Co., Lincoln & Campbell Sts., Valparaiso, Ind. "Micabond"

Dielectric Mfg. Co., 224 S. Vandeventer Ave., St. Louis, Mo.

Ford Radio & Mica Corp., 111 Bleeker St., New York, N. Y.

Granite State Mica Co., 63 Gorham St., West Somerville, Mass.

Hirsch Mica Co., 1087 Flushing Ave., Brooklyn, N. Y.

Huse-Liberty Mica Co., 73 Long Wharf, Boston, Mass.

Imico—see International Mica Co.

International Mica Co., 37th & Brandywine Sts., Philadelphia, Pa. "Imico"

Macallen Co., Macallen St., Boston, Mass.

Meirowsky Bros., 11 McPherson Pl., Jersey City, N. J.

Mica Co. of Canada, Massena, N. Y.

Mica Insulator Co., 68 Church St., New York, N. Y. "Micanite"

Mica Mfg. Co., 135 Johnson St., Brooklyn, N. Y.

Micabond—see Chicago Mica Co.

Micanite—see Mica Insulator Co.

Munsell & Co., Eugene, 68 Church St., New York, N. Y.

New England Mica Co., Waltham, Mass.

New England Minerals Co., 85 Devonshire St., Boston, Mass.

Richmond Mica Co., 323 S. Ninth St., Richmond, Va. "Silver Sheen"

Schoonmaker Insulation Co., A. O., 30 University Pl., New York, N. Y.

Silver Sheen—see Richmond Mica Co.

Storrs Mica Co., Owego, N. Y.

Tar Heel Mica Co., Plumtree, N. C.

**MICA WASHERS—**

see Mica, Sheet and Tube

**MICROMETER CONTROLS—**

see Attachments, Vernier  
also Dials, Vernier

**MICROMETER DIALS—**

see Dials, Vernier

**MICROPHONE****TRANSFORMERS—**

see Transformers, Microphone

**MICROPHONES, Transmitting**

*Telephone Transmitters for use by Amateurs or Broadcasting Stations*

American Electric Co., 6401 S. State St., Chicago, Ill.

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.

Magnavox Co., 2725 E. 14th St., Oakland, Cal.

Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.

Western Electric Co., W. 22d St. & Cicero Ave., Chicago, Ill.

**MILLIAMMETERS—**

see Ammeters and Voltmeters

**MINERALS, Crystal—**

see Crystals, Detector

**MINIATURE BULBS—**

see Bulbs, Miniature

**MINIATURE CONDENSERS—**

see Condensers, Variable Miniature

**MINIATURE JACKS—**

see Jacks, Phone Tip

**MINIATURE KNIFE****SWITCHES—**

see Switches, Miniature Knife

**MODULATION****TRANSFORMERS—**

see Transformers, Modulation

**MOLDED DIALS—**

see Dials, Rubber



**MOLDED INSULATION—**

see **Insulation**, Molders of Composition  
also **Insulation**, Molders of Porcelain

**MOLDED VARIOCOUPERS—**

see **Variocouplers**

**MOLDED VARIOMETERS—**

see **Variometers**

**MOLDERS OF PORCELAIN—**

see **Insulation**, Molders of Porcelain

**MOLDING MACHINES—**

see **Machines**, Plastic Molding

**MOTORS, Fractional Horse Power**

- American Electric Motors, Inc., 57 Erie St., Milwaukee, Wis.
- Azor Motor Mfg. Co., 7424 Bessemer Ave., Cleveland, Ohio.
- B. & R. Mfg. Co., 812 Lafayette St., Toledo, Ohio.
- Bodine Electric Co., 2254 W. Ohio St., Chicago, Ill.
- Dayton Engineering Laboratories Co., 329 First St., Dayton, Ohio. "Delco"
- Delco—see Dayton Engineering Laboratories Co.
- Diehl Mfg. Co., Trumbull St., Elizabeth, N. J.
- Domestic Electric Co., 7209 St. Clair Ave., Cleveland, Ohio
- Emerson Electric Mfg. Co., 50 Church St., New York, N. Y.
- Liberty Electric Corp., Fairfield Ave., Stamford, Conn.
- Lincoln Electric Co., Coil & Kirby Rd., Cleveland, Ohio. "Linc-Weld"
- Linc-Weld—see Lincoln Electric Co.
- Michigan Electric & Mfg. Co., Lake Linden, Mich.
- Racine Universal Motor Co., Racine, Wis.
- Sunlight Electrical Mfg. Co., Warren, Ohio.
- Wisconsin Electric Co., 16th St., Racine, Wis.

**MOTOR-GENERATORS, Battery Charging**

*Direct Coupled Motor-Generator Set inclusive of central panel for generating D. C. for use in charging Storage Batteries*

- Bodine Electric Co., 2254 W. Ohio St., Chicago, Ill.
- Electric Products Co., 1725 Clarkstone Rd., Cleveland, Ohio.
- Electric Specialty Co., 215 South St., Stamford, Conn.
- Hansom & Van Winkle Co., 269 Oliver St., Newark, N. J. "Quill"
- Hertner Electric Co., W. 113th St., Cleveland, Ohio.
- Hobart Bros. Co., Canal Locks Sq., Troy, Ohio
- Kendrick & Davis Co., Lebanon, N. H.
- Marble-Card Electric Co., Gladstone, Mich.
- Maxwell & Co., C. H., 7714 Hough Ave., Cleveland, Ohio.
- Price-Rochester Corp., 640 Driving Park Ave., Rochester, N. Y.
- Quill—see Hansom & Van Winkle Co.
- Radio Corp. of America, 233 Broadway, New York, N. Y.

**MOUNTED CRYSTALS—**

see **Crystals**, Detector

**MOUNTING ADAPTERS—**

see **Adapters**, Mounting

**MOUNTING JIGS—**

see **Jigs**, Mounting

**MOUNTINGS, Coil**

*Small Forms and Shapes for mounting Single or Multiple Honeycomb Inductance Coils*

- Branston, Chas. A., 815 Main St., Buffalo, N. Y.
- Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.
- Columbia Radio Corp., 155 N. Union St., Chicago, Ill.
- Curkoid Corp., 100 Charles St., New York, N. Y.
- Goodman, L. W., 436 Forrest Ave., Drexel Hill, Pa.
- Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.
- K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.
- Pacnet Electric Co., 91 Seventh Ave., New York, N. Y.
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Wireless Electric Co., 204 Stanwix St., Pittsburgh, Pa.

**MOUNTINGS, Crystal—**

see **Holders**, Crystal

**MOUNTINGS, Grid Condenser—**

see **Holders**, Grid-Leak

**MOUNTINGS, Grid-Leak—**

see **Holders**, Grid-Leak

**MOUNTINGS, Honeycomb Coil—**

see **Mountings**, Coil

**MOUNTINGS, Resistance—**

see **Holders**, Grid Leak

**MULTIPLE BATTERY CABLES—**

see **Cables**, Multiple Battery

**MULTIPLE CABLE—**

see **Wires**, Cabled Insulated

**MULTIPLE COMPARING SWITCHES—**

see **Switches**, Multiple Speaker Testing

**MULTIPLE CONNECTION BINDING POSTS—**

see **Posts**, Multiple Connection

**MULTIPLE CONNECTOR PLUGS—**

see **Plugs**, Multiple Connector

**MULTIPLE PHONE BLOCKS—**

see **Boxes**, Multiple Phone

**MULTIPLE PHONE CONNECTORS—**

see **Boxes**, Multiple Phone  
also **Plugs**, Multiple Phone  
also **Posts**, Multiple Connection Binding

**MULTIPLE PHONE PLUGS—**

see **Plugs**, Multiple Phone

**MULTIPLE SPEAKER TESTING SWITCHES—**

see **Switches**, Multiple Speaker Testing

**MULTIPOINT VOLTMETER SWITCHES—**

see **Switches**, Multipoint Voltmeter

**NAME PLATES—**

see **Plates**, Name

**NEUTRALIZING CONDENSERS—**

see **Condensers**, Neutralizing  
also **Condensers**, Variable Miniature

**NUTS, Brass and Copper**

- Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.
- Blake & Johnson Co., Waterbury, Conn. Cataloged on page.....88
- Chicago Nut Mfg. Co., 2513 W. Cullerton St., Chicago, Ill. Cataloged on page.....88
- Everitt Co., 265 Franklin St., Boston, Mass.
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"
- H & H—see Hart & Hegeman Mfg. Co.
- Namco—see National Acme Co.
- National Acme Co., E. 131st St. & Colt Ave., Cleveland, Ohio "Namco"
- New England Screw Co., 44 Farnsworth St., Boston, Mass.
- Pheoll Mfg. Co., 5710 Roosevelt Rd., Chicago, Ill. Cataloged on page.....89
- Seovill Mfg. Co., Waterbury, Conn. Cataloged on page.....89
- Screw Machine Specialty Co., 314 29th St., Pittsburgh, Pa.
- Steele & Johnson Mfg. Co., 779 S. Main St., Waterbury, Conn.

**NUTS, Hexagon—**

see **Nuts**, Brass and Copper

**OHMMETERS**

*Portable Instruments for measuring Resistances*

- Biddle, James G., 1211 Arch St., Philadelphia, Pa. "Meg"
- Gray Instrument Co., 64 W. Johnson St., (Germantown), Philadelphia, Pa.
- Illinois Testing Laboratories, 141 W. Austin Ave., Chicago, Ill.
- Meg—see Biddle, James G.
- Roller-Smith Co., 233 Broadway, New York, N. Y.
- Standco—see Sticht & Co.
- Sticht & Co., Herman H., 15 Park Row, New York, N. Y. "Standco"

**OPEN CIRCUIT JACKS—**

see **Jacks**, Phone

**OPEN END WRENCHES—**

see Wrenches, Open End

**OSCILLATION****TRANSFORMERS—**

see Transformers, Oscillation

**OSCILLATOR COUPLERS—**

see Couplers, Oscillator

**OSCILLATORS, Audio**

*For the production of sustained oscillations for purposes of measurement; for Vacuum Tubes—see Tubes, Vacuum*  
General Radio Co., 30 State St., Cambridge, Mass.

**OSCILLOGRAPHS**

*Movable Coil, Movable Needle, String or Electrostatic Type for visible examination of wave forms.*  
General Radio Co., 30 State St., Cambridge, Mass.

**OUTDOOR AERIALS—**

see Aerials, Outdoor

**OUTDOOR LIGHTNING ARRESTERS—**

see Arresters, Lightning Outdoor

**OUTFITS, Testing—**

see Sets, Electrical Testing

**PACKING BOXES—**

see Boxes, Corrugated Fibre

**PADS, Rubber —**

see Cushions, Rubber Set

**PAINT, Acid Resisting**

*Waterproof and Acid proof black Paint for Protecting Storage Battery Boxes*  
American Di-Electrics, Ltd., 466 E. Seventh St., Brooklyn, N. Y.  
Barber Asphalt Co., Land Title Bldg., Philadelphia, Pa. "Genasco"  
Elatec Paint & Mfg. Co., Des Moines, Iowa.  
Genasco—see Barber Asphalt Co.  
Standard Varnish Works, 443 Fourth Ave., New York, N. Y.

**PAINT, Storage Battery—**

see Paint, Acid Resisting

**PANCAKE COILS—**

see Coils, Inductance

**PANEL BEZELS—**

see Bezels, Panel

**PANEL ENGRAVING MACHINES—**

see Machines, Engraving

**PANEL ENGRAVINGS—**

see Transfers, Decalomania

**PANEL HOLE CUTTERS—**

see Cutters, Panel Hole

**PANEL LEVER SWITCHES—**

see Switches, Panel Lever

**PANEL LIGHTS—**

see Lights, Panel

**PANEL SAWS—**

see Saws, Panel

**PANEL SHIELDING—**see Foil  
also Shielding, Liquid Panel**PANEL TYPE AMMETERS—**

see Ammeters and Voltmeters, Panel Type

**PANEL TYPE VOLTMETERS—**

see Ammeters and Voltmeters, Panel Type

**PANELING—**see Fibre, Vulcanized  
also Insulation, Composition  
also Rubber, Hard**PANELS, Composition—**

see Insulation, Composition

**PANELS, Cutters, Drillers and Engravers of**

*Companies having facilities for Cutting, Drilling and Engraving Panels to Order*  
Aetna Radio Panel Co., 30 Park Pl., New York, N. Y. "D X Itc"  
Aetna Stamp & Engraving Co., 71 Asylum St., Hartford, Conn.  
Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
American Radio Panel Co., 50 Commercial St., Newark, N. J.  
Bakelite, Fibre & Service Co., 1125 Wall St., Los Angeles, Cal.  
Bay State Panel Co., 16 Hudson St., New York, N. Y.  
Boston Radio Mfg. Co., 682 Beacon St., Boston, Mass.  
Calvert Specialty Co., 141 N. 11th St., Philadelphia, Pa.  
Chicago Radio Apparatus Co., 415 S. Dearborn St., Chicago, Ill.  
Conway Mfg. Co., 153 Jefferson St., Philadelphia, Pa.  
Cortlandt Panel Engraving Co., 81 Cortlandt St., New York, N. Y. "Diamond-Of-The-Air"  
Crescent Radio Supply Co., 5 Liberty St., Jamaica, N. Y.  
Dejco—see Johnson Co.  
Diamond-Of-The-Air—see Cortlandt Panel Engraving Co.  
D X Itc—see Aetna Radio Panel Co.  
Excell Radio Mfg. Co., 4251 S. Main St., Los Angeles, Cal.  
Formica Insulation Co., 4662 Spring Grove Ave., Cincinnati, Ohio "Veri Chrome"  
Cataloged on page.....69  
Imperial Economy Radio Co., 81 Cortlandt St., New York, N. Y.  
Insulating Company of America (Radio Panel & Parts Div.), 59 Warren St., New York, N. Y.  
Johnson Co., D. E., 221 Fulton St., New York, N. Y. "Dejco"  
Kimo Panel Engraving Co., 237 Greenwich St., New York, N. Y.  
Marine Radio Mfg. & Electric Co., 1267 St. Nicholas Ave., New York, N. Y.

Mathison & Co., Volney G., 660 12th St., Oakland, Cal.  
Micarta Fabricators, Inc., 309 Canal St., New York, N. Y.  
Moeller Machine Co., 2714 S. Canal St., Chicago, Ill.  
National Radio Panel Co., 319 Broadway, New York, N. Y.  
Ness, Jr., Geo. M., 61 Fulton St., New York, N. Y.  
New York Hard Rubber Turning Co., 212 Center St., New York, N. Y.  
Oeters Co., Edgar O., 605 Arch St., Philadelphia, Pa.  
Panelyte Board Co., Enterprise Ave., Trenton, N. J.  
Peffer, R. M., 334 Chestnut St., Harrisburg, Pa.  
Poster & Co., 26 Barclay St., New York, N. Y.  
Radio Owners Service Co., 660 12th St., Oakland, Cal.  
Radio Panel & Tubing Co., 514 Orange St., Newark, N. J.  
Roselle Mfg. Co., 215 E. Ninth Ave., Roselle, N. J.  
Rosto Radio Engraving Plant, 50 Commercial St., Newark, N. J.  
Schmidt, Inc., Geo. T., 1800 Belle Plaine Ave., Chicago, Ill.  
Schnitzer-Hagen & Co., 83 Washington Pl., Passaic, N. J.  
Schwenke Machine Engraving Co., 2036 Woodward Ave., Detroit, Mich.  
Starrett Mfg. Co., 519 S. Green St., Chicago, Ill.  
United Radio Mfg. Co., 191 Greenwich St., New York, N. Y.  
Universal Insulation Co., 215 Emmet St., Newark, N. J.  
Veri Chrome—see Formica Insulation Co.  
Vetter, W. A., 24 12th St., San Francisco, Cal.  
Victor Radio Parts Co., 104 Portland St., Boston, Mass.  
Walmart Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
Wright Radio Co., 144 Exchange St., Rockland, Mass.

**PANELS, Drillers of—**

see Panels, Cutters, Drillers and Engravers of

**PANELS, Engravers of—**

see Panels, Cutters, Drillers and Engravers of

**PANELS, Fibre—**

see Fibre, Vulcanized

**PANELS, Hard Rubber—**see Panels, Cutters, Drillers and Engravers of  
also Rubber, Hard**PANELS, Laminated—**

see Insulation, Composition

**PANELS, Metal**

*Completely Cut, Stamped, Drilled and Etched Metal Panels ready for mounting of Parts*  
Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.  
Crowe Name Plate & Mfg. Co., 1749 Grace St., Chicago, Ill.  
Cataloged on page.....67  
Etch-Art—see Grammes & Sons  
Etched Products Corp., Queens Blvd. & Harold Ave., Long Island City, N. Y.  
Etching Co. of America, 1520 Montana St., Chicago, Ill.  
General Etching & Mfg. Co., 3070-82 W. Grand Ave., Chicago, Ill.  
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**Grammes & Sons, L. F., Allentown, Pa.**  
 "Etch-Art"  
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**Greenduck Co., 1725 W. North Ave., Chicago, Ill.**  
 Hanson Co., C. H., 178 N. Clark St., Chicago, Ill.

**Litho-Etching Corp., 52 Vanderbilt Ave., New York, N. Y.**  
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**Premier Metal Etching Co., 185 14th St., Long Island City, N. Y.**  
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**Scovill Mfg. Co., Waterbury, Conn.**  
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**PANELS, Rubber—**

see Rubber, Hard

**PANELS, Wired Sub—**

see Boards, Wired Base

**PAPER, Cone**

*For use in building Cone Loud Speakers*  
**New York-New England Co., Holyoke, Mass.**  
 Seymour Co., 323 W. 16th St., New York, N. Y.  
 Westvaco—see West Virginia Pulp & Paper Co.  
 West Virginia Pulp & Paper Co., 200 Fifth Ave., New York, N. Y. "Westvaco"

**PAPER, Emery and Sand**

**American Glue Co., 121 Beverly St., Boston, Mass. "Union"**  
**Armour Sand Paper Works, 1355 W. 31st St., Chicago, Ill.**  
 B-A—see Baeder, Adamson & Co.  
**Baeder, Adamson & Co., Richmond St. & Alleghany Ave., Philadelphia, Pa. "B-A"**  
**Barton & Son Co., H. H. (Holmesburg), Philadelphia, Pa.**  
**Behr & Co., Herman, 33 Tiffany Pl., Brooklyn, N. Y. "Brooklyn"**  
 Brooklyn—see Behr & Co.  
**Carborundum Co., Buffalo & 18th Sts., Niagara Falls, N. Y.**  
**Crystal Bay—see Minnesota Mining & Mfg. Co.**  
**Durite—see Manning Abrasive Co.**  
**Manning Abrasive Co., Troy, N. Y. "Metalite" "Durite"**  
 Metalite—see Manning Abrasive Co.  
**Minnesota Mining & Mfg. Co., Forest & Faquier Sts., St. Paul, Minn. "Three-M-ite" "Crystal Bay"**  
**Ruff-Stuff—see Wausau Abrasives Co.**  
 Three-M-ite — see Minnesota Mining & Mfg. Co.  
 Union—see American Glue Co.  
**Wausau Abrasives Co., Wausau, Wis. "Ruff-Stuff"**

**PAPER, Resistance**

*High Resistance Paper for use in Grid Leaks*  
**O'Meara Co., Maurice, 448 Pearl St., New York, N. Y.**

**PAPER TUBES—**

see Tubes, Paper

**PARTS, Composition—**

see Insulation, Molders of Composition

**PARTS, Die Cast—**

see Castings, Die

**PARTS, Molded—**

see Insulation, Molders of Composition  
 also Insulation, Molders of Porcelain

**PASTE, Soldering—**

see Flux, Soldering

**PERMANENT MAGNETS—**

see Magnets, Permanent

**PHANTOM ANTENNAS—**

see Resistors, Phantom Antenna

**PHONE ADAPTERS—**

see Adapters, Radio-Phonograph

**PHONE CORD—**

see Cord, Flexible Tinsel

**PHONE CORD TIPS—**

see Tips, Cord

**PHONE CORDS—**

see Cords, Telephone

**PHONE CUSHIONS, Rubber—**

see Cushions, Rubber Phone

**PHONE JACKS—**

see Jacks, Phone

**PHONE PLUGS—**

see Plugs, Condenser  
 also Plugs, Multiple  
 also Plugs, Single  
 also Plugs, Variable Resistance Phone

**PHONE PLUGS, Variable**

**Resistance—**

see Plugs, Variable Resistance Phone

**PHONE TIP JACKS—**

see Jacks, Cord Tip

**PHONES, Head—**

see Head-Sets

**PHONES, Single—**

see Units, Loud Speaker

**PHONOGRAPH ADAPTERS—**

see Adapters, Radio-Phonograph

**PHONOGRAPH SETS,**

**Combination Radio—**

see Sets, Combination Radio-Phonograph

**PHONOGRAPH UNITS—**

see Units, Loud Speaker

**PHOSPHOR BRONZE—**

see Brass and Copper, Sheet and Rod

**PHOTO-ELECTRIC CELLS—**

see Cells, Photo-Electric

**PIANO HINGES—**

see Hinges, Continuous

**PILOT LIGHT SWITCHES,**

**Combination—**

see Switches, Combination Pilot Light

**PIN VISES—**

see Vises, Hand and Pin

**PIPE CLAMPS—**

see Clamps, Ground

**PLASTIC MOLDING**

**MACHINES—**

see Machines, Plastic Molding

**PLATE CURRENT**

**GENERATORS—**

see Generators, High Frequency

**PLATE CURRENT SUPPLY**

**KITS, Knockdown—**

see Rectifiers, Knockdown Plate Current Supply

**PLATE CURRENT SUPPLY**

**RECTIFIERS—**

see Rectifiers, Filament Current Supply  
 also Rectifiers, Plate Current Supply  
 also Rectifiers, Filament and Plate Current Supply

**PLATE CURRENT SUPPLY**

**RECTIFIERS, Knockdown—**

see Rectifiers, Knockdown Plate Current Supply

**PLATE REACTORS—**

see Coils, Choke

**PLATE VOLTMETERS—**

see Ammeters and Voltmeters, Panel

**PLATES, Jack Name**

*Small flat Plates mounted with Phone Jacks on Panel for indentifying Circuit*  
**Adams Radio Mfg. Co., 1044 W. Van Buren St., Chicago, Ill.**  
**Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.**  
**Crowe Name Plate & Mfg. Co., 1749 Grace St., Chicago, Ill.**  
**Etching Co. of America, 1520 Montana St., Chicago, Ill.**  
**Pacent Electric Co., 91 Seventh Ave., New York, N. Y.**  
**Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.**

**PLATES, Mounting—**

see Adapters, Mounting

**PLATES, Name**

*Small metal Plates, Stamped or Etched, used for Manufacturers' Identification*  
**American Emblem Co., Utica, N. Y.**  
**Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio**



**PLATES, Name****Continued**

Bastian Bros., 1600 N. Clinton St., Rochester, N. Y.  
 Chandler Co., Springfield, Mass.  
 Crowe Name Plate & Mfg. Co., 1749 Grace St., Chicago, Ill.  
 Detroit Name Plate Etching Co., 648 E. Congress St., Detroit, Mich.  
 Electro Chemical Engraving Co., 52 Vanderbilt Ave., New York, N. Y.  
 Etched Products Corp., Queens Blvd. & Harold Ave., Long Island City, N. Y.  
 Etching Co. of America, 1520 Montana St., Chicago, Ill.  
 General Etching & Mfg. Co., 3070-82 W. Grand Ave., Chicago, Ill.  
**Grammes & Sons, L. F., Allentown, Pa.**  
*Cataloged on page.....71*  
 Greenduck Co., 1725 W. North Ave., Chicago, Ill.  
 Hoggson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.  
 Litchfield Corp. 25 Dey St., New York, N. Y.  
**Litho-Etching Corp., 52 Vanderbilt Ave., New York, N. Y.**  
*Cataloged on page.....70*  
 Matthews & Co., Jas. H., 3942 Forbes St., Pittsburgh, Pa.  
 Mayer & Co., Geo. J., 36 S. Meridian St., Indianapolis, Ind.  
 Metropolitan Electric Mfg. Co., East Ave. & 14th St., Long Island City, N. Y.  
 Moss & Co., Henry, 113 W. 53d St., Brooklyn, N. Y.  
 Murdock Stamp & Specialty Co., 123 W. Pearl St., Cincinnati, Ohio  
**Premier Metal Etching Co., 175 14th St., Long Island City, N. Y.**  
*Cataloged on page.....68*  
 Spencer Mfg. Co., S. M., Washington & Cornhill Sts., Boston, Mass.  
 Stafford Co., N., 96 Fulton St., New York, N. Y.  
 Stanley Mfg. Co., Dayton, Ohio.  
 Triangle Atlantic Corp., 349 Adams St., Brooklyn, N. Y.  
 Vetter, W. A., 24 12th St., San Francisco, Cal.  
 Waterbury Button Co., Waterbury, Conn.  
 Whitehead & Hoag Co., 272 Sussex Ave., Newark, N. J.

**PLATES, Rheostat Index**

*For mounting behind Rheostat Knobs for giving Dial Reading*

Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**PLATINUM**

American Platinum Works, N. J. R.R. Ave. & Olive St., Newark, N. J.  
 Baker & Co., 54 Austin St., Newark, N. J.  
 Bishop & Co. Platinum Works, J., Malvern, Pa.  
 Contact Metals Co., 221 E. 23d St., Chicago, Ill.  
 Handy & Harman, 57 William St., New York, N. Y.  
 R. & H. Platinum Works, 709 Sixth Ave., New York, N. Y.  
 Wilco—see Wilson Co.  
 Wilson Co., H. A., 97 Chestnut St., Newark, N. J. "Wilco"

**PLATINUM CONTACTS—**

see Platinum

**PLATINUM POINTS—**

see Platinum

**PLATINUM RIVETS—**

see Platinum

**PLATINUM RODS—**

see Platinum

**PLIERS, Combination and Slip Joint**

Athol Machine Co., Athol, Mass.  
 Barcalo Mfg. Co., Buffalo, N. Y.  
 Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo, N. Y.  
 Billings & Spencer Co., Laurel & Park Sts., Hartford, Conn.  
 Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"  
 Buffum Tool Co., 120 N. Fourth St., Louisiana, Mo.  
 Crescent Tool Co., Jamestown, N. Y.  
 Cronk & Carrier Mfg. Co., Montour Falls, N. Y.  
 Erie Tool Works, 11th & French Sts., Erie, Pa.  
 Fairmount Tool & Forging Co., 1064 Quincy Ave., Cleveland, Ohio  
 Gittatit—see Smith & Co.  
 Gooden-Pratt Co., Wells St., Greenfield Mass.  
 Kilborn & Bishop Co., 196 Chapel St., New Haven, Conn.  
 Kraeuter & Co., 583 18th Ave., Newark, N. J.  
 Mayhew Steel Products, Inc., Shelburne Falls, Mass.  
 Mossberg Co., Frank, Lamb St., Attleboro, Mass.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Schollhorn Co., Wm., 414 Chapel St., New Haven, Conn.  
 Smith & Co., H. D., Plantsville, Conn. "Gittatit"  
 Starrett Co., L. S., 165 Crescent St., Athol, Mass.  
 Utica Drop Forge & Tool Co., 2415 Whitesboro St., Utica, N. Y.

**PLIERS, Radio**

Goyer Co., Willimantic, Conn. "Windham"  
*Cataloged on page.....54*  
 Windham—see Goyer Co.

**PLIERS, Round Nose**

Crescent Tool Co., Jamestown, N. Y.  
 Cronk & Carrier Mfg. Co., Montour Falls, N. Y.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Radiogem Corp., 66 W. Broadway, New York, N. Y. "Rageco"  
 Rageco—see Radiogem Corp.  
 Schollhorn Co., Wm., 414 Chapel St., New Haven, Conn.  
 Utica Drop Forge & Tool Co., 2800 Whitesboro St., Utica, N. Y.

**PLUGS, Antenna or Socket**

*Devices for plugging into Light Sockets to use House Circuit as Antenna*

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Antenella—see Freshman Co.  
 Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Ducon"  
 Ducon—see Dubilier Condenser & Radio Corp.  
 Electrad, Inc., 428 Broadway, New York, N. Y.

Empire Electric Co., 53 Devonshire St., Boston, Mass. "Forbes"  
 Forbes—see Empire Electric Co.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Freshman Co., Chas., 240 W. 40th St., New York, N. Y. "Antenella"  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
**Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.**  
*Cataloged on page.....124*  
 Un-X-Ld—see Forman & Co.  
 Webb Mfg. Co., 2498 Kingston Rd., Cleveland, Ohio.

**PLUGS, Coil Mounting—**

see Mountings, Honeycomb Coil

**PLUGS, Condenser Phone**

*For use in output jack ahead of Loud Speaker*

Polymet Mfg. Corp., 599 Broadway, New York, N. Y.  
*Cataloged on page.....72*

**PLUGS AND JACKS, Single Cord**

*Small Metal Plugs and Jacks for use with Single Cord; for Phone Plugs—see Plugs, Single Phone; also Plugs, Multiple Phone; for Phone Jacks—see Jacks, Phone; for Cord Tips—see Tips, Cord*

Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"  
 Imp—see Carter Radio Co.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**PLUGS, Multiple Connector**

*Complete Cable and Plug-in Connector for battery leads; for Multiple Battery Cables—see Cables, Multiple Battery*

Jones, Howard B., 614 S. Canal St., Chicago, Ill. "Multi-Plug"  
*Cataloged on page.....73*  
 Multi-Plug—see Jones, Howard B.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**PLUGS, Multiple Phone**

*For connecting a Radio Set to a group of Head Sets or Loud speakers through one Jack*

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Ajax—see Philmore Mfg. Co.  
 American Electric Co., 6401 S. State St., Chicago, Ill.  
 Barkelew Electric Mfg. Co., Middletown, Ohio  
 Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Bestone—see Hyman & Co.  
 Bull Dog—see Firth Radio Corp.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Tu-Way"  
 Cico—see Consolidated Instrument Co.  
 Consolidated Instrument Co. of America, 41 E. 42d St., New York, N. Y. "Cico"  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa. "Tip Top"  
 Firth Radio Corp., 25 Beaver St., New York, N. Y. "Bull Dog"  
 Four Way Co., 29 Worthington St., Springfield, Mass.  
**Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.**  
*Cataloged on page.....86*  
 G. W.—see Walker Co.  
 Hamburg Bros., 450-52 Seventh Ave., Pittsburgh, Pa. "Pennsylvania"  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"

Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.  
 Leich Electric Co., Genoa, Ill.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Murdock Co., Wm. J., 347 Washington Ave., Chelsea, Mass.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Pennsylvania—see Hamburg Bros.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Tip Top—see Eby Mfg. Co.  
 Tu-Way—see Carter Radio Co.  
 Walker Co., G. E., 1926 Chestnut St., St. Louis, Mo. "G. W."  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**PLUGS, Single Phone**

*For connecting a Radio Set to one Head Set or Loud speaker through one Jack*  
 Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 B. M. S.—see Brooklyn Metal Stamping Corp.  
 Barnes Co., Wallace, Bristol, Conn.  
 Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
 Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "Tri-Plug" "B. M. S."  
 Buffalo—see DeJur Products Co.  
 Bull Dog—see Firth Radio Corp.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "One-Way"  
 Cico—see Consolidated Instrument Co.  
 Consolidated Instrument Co. of America, 41 E. 42d St., New York, N. Y. "Cico"  
 DeJur Products Co., 199 Lafayette St., New York, N. Y. "Buffalo"  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Dymac—see Electrical Products Mfg. Co.  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Eria"  
 Eria—see Electrical Research Laboratories  
 E-Z—see Polymet Mfg. Corp.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fenton, N., 57 Murray St., New York, N. Y.  
 Firth Radio Corp., 25 Beaver St., New York, N. Y. "Bull Dog"  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Four Way Co., 29 Worthington St., Springfield, Mass.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Cataloged on page.....86  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Leich Electric Co., Genoa, Ill.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Muzada"  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Muter Co., Lealle F., 76th & Greenwood Ave., Chicago, Ill.  
 Cataloged on page.....124  
 Muzada—see Mazda Radio Mfg. Co.  
 National Electric Co., 165 Broadway, New York, N. Y.

One-Way—see Carter Radio Co.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Poly—see Polymet Mfg. Corp.  
 Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "Poly" "E-Z"  
 Cataloged on page.....72  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.  
 Saturn Mfg. & Sales Co., 48 Beekman St., New York, N. Y.  
 Schiff Laboratories, 283 Glenwood Ave., Bloomfield, N. J.  
 Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Stuart Products Corp., 663 W. Washington Blvd., Chicago, Ill.  
 Tri-Plug—see Brooklyn Metal Stamping Corp.  
 Un-X-Ld—see Forman & Co.  
 Waterbury Button Co., Waterbury, Conn.  
 Weston Electrical Instrument Corp., 157 Weston Ave., Newark, N. J.  
 Cataloged on page.....31  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.  
 Zeco—see Zisch Engineering Corp.  
 Zisch Engineering Corp., 39 Ave. L., Newark, N. J. "Zeco"

**PLUGS, Socket—**

see Plugs, Antenna or Socket

**PLUGS, Variable Resistance Phone**

*Phone Plugs with built-in variable high resistance*  
 Central Radio Laboratories, 16 Keefe Ave., Milwaukee, Wis. "Centralab"  
 Cataloged on page.....85  
 Centralab—see Central Radio Laboratories

**POCKET AMMETERS—**

see Ammeters and Voltmeters

**POCKET BATTERY TESTERS—**

see Ammeters and Voltmeters, Pocket

**POCKET INSTRUMENTS—**

see Ammeters and Voltmeters

**POCKET METERS—**

see Ammeters and Voltmeters

**POCKET VOLTMETERS—**

see Ammeters and Voltmeters

**POINTERS, Dial**

*For mounting on Panel to serve as Dial Indexes*  
 Airex Co., 797 Greenwich St., New York, N. Y.  
 Aristocrat—see Kurz-Kasch Co.  
 Howard Radio Corp., 469 E. Ohio St., Chicago, Ill.  
 Kurz-Kasch Co., Dayton, Ohio. "Aristocrat"  
 Premier Metal Etching Co., 185 14th St., Long Island City, N. Y.  
 Radio Specialty Co., 98 Park Pl., New York, N. Y. "Rasco"  
 Rasco—see Radio Specialty Co.

**POINTS, Contact—**

see Platinum

**POINTS, Platinum—**

see Platinum

**POINTS, Silver—**

see Silver

**POINTS, Switch—**

see Contacts, Switch

**POLE FITTINGS—**

see Fittings, Iron Antenna Pole

**POLES, Aerial—**

see Poles, Steel  
 also Towers, Steel

**POLES, Antenna—**

see Poles, Steel  
 also Towers, Steel

**POLES, Latticed Steel—**

see Poles, Steel  
 also Towers, Steel

**POLES, Steel**

*Complete self-supporting Steel Antenna Pole; see also Towers, Steel*

Archbold-Brady Co., Syracuse, N. Y.  
 Bates Expanded Steel Truss Co., 152d St., East Chicago, Ind.  
 Bates Steel Corp., Walter, Gary, Ind.  
 Blaw-Knox Co., Farmers Bank Bldg., Pittsburgh, Pa.  
 Coombs, & Co., R. D., 30 Church St., New York, N. Y.  
 Freidag Mfg. Co., 1131 S. Adams Ave., Freeport, Ill.  
 Lehigh Structural Steel Co., Allentown, Pa.  
 Riter-Conley Co., Oliver Bldg., Pittsburgh, Pa.  
 Truscon Steel Co., Youngstown, Ohio  
 U. S. Wind Engine & Pump Co., Batavia, Ill.  
 Whittlesey Engineering Co., Cleveland, Ohio

**POLES, Tubular Steel—**

see Poles, Steel

**POLISHERS, ELECTRIC—**

see Drills, Electric

**PORCELAIN ANTENNA INSULATORS—**

see Insulators, Porcelain, Antenna

**PORCELAIN CLEATS—**

see Cleats, Porcelain Wiring

**PORCELAIN KNOBS—**

see Knobs, Porcelain Wiring

**PORCELAIN, Molders of—**

see Insulation, Molders of Porcelain

**PORCELAIN SOCKETS—**

see Sockets, Vacuum Tube

**PORCELAIN TUBES—**

see Tubes, Porcelain Wiring

**PORTABLE AERIALS—**

see Aerials, Portable

**PORTABLE ELECTRIC DRILLS—**

see Drills, Electric Portable

**PORTABLE JACKS—**

see Jacks, Extension

**PORTABLE SETS—**

see Sets, Vacuum Tube

**POST STRIPS, Binding—**

see Strips, Binding Posts

**POSTS, Composition Binding***Composition top Terminal Binding Posts*

Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 American Radio Hardware Co., 203 Lafayette St., New York, N. Y.  
 Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt., "Bremco"  
 Bremco—see Bennington Radio & Electric Mfg. Co.  
 Chapman Machine Co., Terryville, Conn.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa. "Ensign"  
 Cataloged on page.....57  
 Ensign—see Eby Mfg. Co.  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J.  
 Firth Radio Corp., 25 Beaver St., New York, N. Y.  
 Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio.  
 Ganio-Kramer Co., 238 W. 53d St., New York, N. Y. "G-K."  
 General Insulate Co., 1008 Atlantic Ave., Brooklyn, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 G-K—see Ganio-Kramer Co.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill. "No-Kum-Apart"  
 Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Mucher, John J., 109 Lafayette St., New York, N. Y.  
 No-Kum-Apart—see Mohawk Corp. of Illinois  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 Waterbury Button Co., Waterbury, Conn.

**POSTS, Initialed Binding—**

see Posts, Lettered Binding

**POSTS, Insulated Binding—**

see Posts, Composition Binding

**POSTS, Jack Binding***Binding Posts where Connections are made by plugging in and made permanent by slight twist of knurled Cap*

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Foote, Pierson & Co., 160 Duane St., New York, N. Y.  
 Globe Phone Mfg. Co., Reading, Mass.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.

**POSTS, Lettered Binding***Lettered composition top Terminal Binding Posts*

Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa. "Ensign"  
 Cataloged on page.....57  
 Ensign—see Eby Mfg. Co.  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Mucher, John J., 109 Lafayette St., New York, N. Y.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
 Rit-One—see Radio Sales Co.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 Waterbury Button Co., Waterbury, Conn.

**POSTS, Metal Binding***Metal Terminal Binding Posts*

Adams Radio Mfg. Co., 1044 W. Van Buren St., Chicago, Ill.  
 Ajax—see Philmore Mfg. Co.  
 Aurora Electric Co., 14 Dunham Pl., Brooklyn, N. Y.  
 Barnes Co., Wallace, Bristol, Conn.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Central Scientific Co., 460 E. Ohio St., Chicago, Ill.  
 Chapman Machine Co., Terryville, Conn.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla—see Electrical Research Laboratories  
 Fahnestock Electric Co., Long Island City, N. Y.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Foote, Pierson & Co., 160 Duane St., New York, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Hipco—see Hipwell Mfg. Co.

Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill. "No-Kum-Apart"  
 Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa.  
 Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Namco—see National Acme Co.  
 National Acme Co., E. 131st St. and Coit Ave., Cleveland, Ohio "Namco."  
 No-Kum-Apart—see Mohawk Corp. of Illinois.  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
 Rit-One—see Radio Sales Co.  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 X-L Radio Laboratories, 2424 Lincoln Ave., N. Chicago, Ill.

**POSTS, Multiple Connection Binding***Battery Terminal Binding Posts affording multiple connections*

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa. "Tip Top"  
 Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y.  
 Tip Top—see Eby Mfg. Co.

**POSTS, Rubber Binding—**

see Posts, Composition Binding

**POTENTIOMETER WINDINGS—**

see Windings, Potentiometer

**POTENTIOMETERS, Battery***Variable high resistance of 50 to 50,000 ohms capacity with three Terminal connections*

Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
 Aerovox Wireless Corp., 489 Broome St., New York, N. Y.  
 Air-Way Electric Appliance Corp., 618 Broadway, Toledo, Ohio. "Green Seal"  
 Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleyometer"  
 American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Kelford"  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
 Aristocrat—see Kurz-Kasch Co.  
 Bestone—see Hyman & Co.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Bradleyometer—see Allen-Bradley Co.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 Brooklyn Metal Stamping Corp., 718 Atlantic Ave., Brooklyn, N. Y.  
 B-T—see Bremer-Tully Mfg. Co.



Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp" "Hi-Pot"

Central Radio Laboratories, 16 Keefe Ave., Milwaukee, Wis., "Centralab" Cataloged on page.....85

Centralab—see Central Radio Laboratories.

C-H—see Cutler-Hammer Mfg. Co.

Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"

DeJur Products Co., 199 Lafayette St., New York, N. Y.

Dymac—see Electrical Products Mfg. Co.

Eisemann Magneto Corp., 165 Broadway, New York, N. Y.

Electrad, Inc., 428 Broadway, New York, N. Y. "Royalty"

Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"

Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"

Erla—see Electrical Research Laboratories.

E-Z—see Polymet Mfg. Corp.

Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.

Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio.

Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"

Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill. Cataloged on page.....86

General Instrument Corp., 479 Broadway, New York, N. Y.

General Radio Co., 30 State St., Cambridge, Mass.

Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.

Goyer Co., Willimantic, Conn. "Windham" Cataloged on page.....54

Gray Instrument Co., 64 W. Johnson St., (Germantown), Philadelphia, Pa.

Green Seal—see Air-Way Electrical Appliance Corp.

H & H—see Hart & Hegeman Mfg. Co.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"

Hi-Pot—see Carter Radio Co.

Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.

Howard Radio Co., 469 E. Ohio St., Chicago, Ill.

Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"

Imp—see Carter Radio Co.

K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.

Kelford—see American Specialty Co.

Keystone Radio Co., College Ave. & Craig St., Greenville, Pa.

Klosner Radio Corp., 1022 E. 178th St., New York, N. Y.

Kurz-Kasch Co., Dayton, Ohio. "Aristocrat" Cataloged on page.....58

Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.

Mar-Co—see Martin-Copeland Co.

Marlon Electrical Mfg. Co., 24 Cliff St., Jersey City, N. J.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co."

Mohawk Corp., of Illinois, 2222 Diversey Parkway, Chicago, Ill.

Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill.

Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Parker-Aeolus Corp., 161 Grand St., New York, N. Y.

Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "E-Z" Cataloged on page.....72

Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.

Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio.

Reliance Die & Stamping Co., 501 N. La-Salle St., Chicago, Ill.

Royalty—see Electrad, Inc.

Sheffield Trimming & Stamping Corp., 211 Centre St., New York, N. Y. "Stasco"

Stasco—see Sheffield Trimming & Stamping Corp.

Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio.

Sumter Radio Mfg. Co., Telephone St., Sumter, S. C.

Terrace Radio Mfg. Corp., 26 Dock St., Yonkers, N. Y.

Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.

United Scientific Laboratories, Inc., 30 Fourth Ave., New York, N. Y.

Un-X-Ld—see Forman & Co.

Victoreen—see Walker Co.

Walker Co., George W., 6524 Carnegie Ave., Cleveland, Ohio. "Victoreen"

Walnart Electric Mfg. Co., 308 S. Green St., Chicago, Ill.

Windham—see Goyer Co.

Wireless Shop, 150 Glendale Blvd., Los Angeles, Cal.

Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**POWER AMPLIFIERS—**

see Amplifiers, Power

**POWER TRANSFORMERS—**

see Transformers, Power

**POWER TUBE SOCKET ADAPTERS—**

see Adapters, Power Tube Socket

**POWER UNITS—**

see Amplifiers, Power  
also Rectifiers, Filament Current Supply  
also Rectifiers, Filament and Plate Current Supply  
also Rectifiers, Plate Current Supply

**PRACTICE BUZZERS—**

see Buzzers, High Frequency

**PRACTICE CODE TRANSMITTERS—**

see Transmitters, Practice Code  
also Transmitters, Automatic Code

**PRESSES, Insulation Molding—**

see Machines, Plastic

**PRICK PUNCHES—**

see Punches, Center and Prick

**PROTECTIVE SIGNALS—**

see Signals, Short Circuit

**PROTECTORS, Set—**

see Arresters, Lightning

**PROTECTORS, Tube—**

see Fuses, Tube

**PULL SWITCHES—**

see Switches, Push-Pull

**PUNCHES, Center and Prick**

Braunsdorf-Mueller Co., 205 Madison St., Elizabeth, N. J.

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"

Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.

Buck Bros., Riverlin St., Millbury, Mass.

Buffum Tool Co., 120 N. Fourth St., Louisiana, Mo.

Chapin-Stephens Co., Pine Meadow, Conn.

Cincinnati Tool Co., 1951 Waverly Ave., (Norwood) Cincinnati, Ohio

Cronk & Carrier Mfg. Co., Montour Falls, N. Y.

Deuse, J. S., Chester, Conn.

Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio

Goodell-Pratt Co., Wells St., Greenfield, Mass.

Kraeter & Co., 583 18th Ave., Newark, N. J.

Lufkin-Rule Co., Hess Ave., Saginaw, Mich.

Millers Falls Co., Millers Falls, Mass.

Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"

Pexto—see Peck, Stow & Wilcox Co.

Radio-Lectric—see Bridgeport Hardware Mfg. Corp.

SharpenEzy—see Smith & Co., H. D.

Smith & Co., H. D., Plantsville, Conn. "SharpenEzy"

Starrett Co., L. S., 165 Crescent St., Athol, Mass.

Syracuse Twist Drill Co., 936 S. Townsend St., Syracuse, N. Y.

Union Tool Co., 48 E. River St., Orange, Mass.

**PUNCHINGS, Fibre—**

see Stampings, Fibre

**PUSH-PULL SWITCHES—**

see Switches, Push-Pull

**PUSH-PULL TRANSFORMERS—**

see Transformers, Push-Pull

**PYRITE CRYSTALS—**

see Crystals, Detector

**QUARTZ INSULATION, Synthetic—**

see Insulation, Synthetic Quartz

**RADIO CABINETS—**

see Cabinets, Fabric  
also Cabinets, Knockdown  
also Cabinets, Wood

**RADIO DESKS—**

see Tables, Radio

**RADIO FREQUENCY AMPLIFIERS—**

see Amplifiers, Radio

**RADIO FREQUENCY CHOKE COILS—**

see Coils, Radio Frequency Choke

**RADIO FREQUENCY TRANSFORMERS—**

see Transformers, Radio Frequency

**RADIO PLIERS—**

see Pliers, Radio

**RADIO SLIDES—**

see Slides, Radio

**RADIO STANDS—**

see Tables, Radio

**RADIO TRANSFORMERS—**see Transformers, Radio Frequency  
also Transformers, Tuned Radio Frequency**RADIO TABLES—**

see Tables, Radio

**RASPS—**

see Files and Rasps

**REACTIVATORS, Tube***Complete apparatus for rejuvenating Tubes by re-thorinating Filament Surface*

Aetna Machine &amp; Mfg. Co., 426 S. Clinton St., Chicago, Ill.

Durham—see International Resistance Co.  
Grand Ave. Radio Co., 2218½ S. Grand Ave., Los Angeles, Cal.

Hemco—see Richards &amp; Co.

International Resistance Co., Perry Bldg., Dept. K., Philadelphia, Pa. "Durham"  
Cataloged on page.....82

Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.

Kierulff &amp; Ravenscroft, 1630 S. Los Angeles St., Los Angeles, Cal.

Nu-Life—see Sentinel Tube Protector Co.  
Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio.

Reno Corp., Meriden, Conn.

Rhamstine, J. Thos. 508 E. Woodbridge St., Detroit, Mich.

Richards &amp; Co., George, 557 Monroe St., Chicago, Ill. "Hemco"

Sentinel Tube Protector Co., Marquette, Mich. "Nu-Life"

Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio  
Cataloged on page.....33**REACTORS, Filter—**

see Coils, Choke

**REACTORS, Plate—**

see Coils, Choke

**REAMERS, Taper**

Ray State Tap &amp; Die Co., 75 Chauncey St., Mansfield, Mass.

Morse Twist Drill Machine Co., 163 Pleasant St., New Bedford, Mass.

Stevens &amp; Co., 375 Broadway, New York, N. Y. "Utility"

Threadwell Tool Co., 15 Arch St., Greenfield, Mass.

Utility—see Stevens &amp; Co.

Whiteman &amp; Barnes Mfg. Co., E. Exchange St., Akron, Ohio.

**RECEIVER CORDS—**

see Cords, Telephone

**RECEIVERS, Loud Speaking—**

see Horns

also Speakers, Loud

also Units, Loud Speaker

**RECEPTACLES, Jack—**

see Jacks, Wall Receptacles

**RECEPTACLES, Vacuum Tube—**

see Sockets, Gang Vacuum Tube

also Sockets, Single Vacuum Tube

**RECTIFIER TUBES—**

see Tubes, Rectifier

**RECTIFIERS, Battery Charging Bulb***Complete Apparatus for converting the house lighting A.C. to D.C. by a rectifier Tube*Acme Electric Mfg. Co., 1441 Hamilton Ave., Cleveland, Ohio "Directo"  
Cataloged on page.....74Argon—see Holmes Electrical Mfg. Co.  
Auto Mechanical Products Co., 648 N. Robey St., Chicago, Ill. "Autogon"

Autogon—see Auto Mechanical Products Co.

Consolidated Equipment Corp., 160 Grand St., New York, N. Y. (Sole Distributors for Heyer Products Co., Newark, N. J.) "Everymans"

Debco—see Detroit Battery Charger Co.  
Detroit Battery Charger Co. (Division of Premier Mfg. Co.), 3683 Willis Ave., E., Detroit, Mich. "Debco"

Directo—see Acme Electric Mfg. Co.

Duplex—see Gold Seal Electric Co.

Eagle Charger Corp., 121 N. Eighth St., Philadelphia, Pa. "Leader" "Pioneer"  
Cataloged on page.....80

Eclipse—see Kodel Radio Corp.

Electric Heat Control Co., 5902 Carnegie Ave., Cleveland, Ohio "King"  
Cataloged on page.....78

Electric Storage Battery Co., Allegheny Ave. &amp; 19th St., Philadelphia, Pa. "Exide"

Electron—see King Electric Mfg. Co.

Everymans—see Consolidated Equipment Corp.

Exide—see Electric Storage Battery Co.

Farad Corp., 239 Centre St., New York, N. Y.

F-F—see France Mfg. Co.

Fore Electrical Mfg. Co., 5255 N. Market St., St. Louis, Mo.

France Mfg. Co., 10321 Berea Rd., Cleveland, Ohio. "F-F"

G. E.—see General Electric Co.

General Electric Co. (Merchandise Department) Bridgeport, Conn. "G. E." "Tungar"  
Cataloged on page.....81

Gold Seal Electric Co., 7480 Stanton Ave., Cleveland, Ohio "Duplex"

Handy—see Interstate Electric Co.

Heyer Products Co.—see Consolidated Equipment Corp.

Holmes Electrical Mfg. Co., 1810 Leland Ave., Chicago, Ill. "Argon"

Interstate Electric Co., 4339 Duncan Ave., St. Louis, Mo. "Handy"

Kalb Electric &amp; Mfg. Co., 7323 Manchester Ave., St. Louis, Mo.

King—see Electric Heat Control Co.

King Electric Mfg. Co., 1681 Filmore Ave., Buffalo, N. Y. "Electron"

Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Eclipse"

Leader—see Eagle Charger Corp.  
Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.

Parfex—see Rollaway Motor Co.

Pioneer—see Eagle Charger Corp.

Reflex Spark Plug Co., 10804 Berea Rd., Cleveland, Ohio

Rollaway Motor Co., Toledo, Ohio. "Parfex"  
Service Battery Co., 704 E. 102d St., Cleveland, OhioSilver Beauty—see Triple-A-Specialty Co.  
Spartan—see Spartana, A. R.

Spartana, A. R., 806 N. Gay St., Baltimore, Md. "Spartan"

Standard Transformer Co., Dana Ave., Warren, Ohio

Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio

Cataloged on page.....33

Storad Mfg. Co., 1400 W. 25th St., Cleveland, Ohio

Todd Electric Co., 36 W. 20th St., New York, N. Y.

Triple-A-Specialty Co., 628 W. Jackson Blvd., Chicago, Ill. "Silver Beauty"

Tungar—see General Electric Co.

Untron Electric Co., 276 New St., Newark, N. J.

Westinghouse Electric &amp; Mfg. Co., East Pittsburgh, Pa.

Wolke Electric Co., 618 S. First St., Louisville, Ky.

**RECTIFIERS, Battery Charging, Electrolytic or Chemical***Complete Apparatus for converting the house lighting A.C. to D.C. by electrochemical action*

American Battery Co., 2053 N. Racine Ave., Chicago, Ill.

Balkite—see Fansteel Products Co.

Cole Battery Sales Corp., 2435 Indiana Ave., Chicago, Ill.

D. A. Radio Co., 30 Hollister St., Buffalo, N. Y.

Durkee-Thomas Products Co., 1228 Folsom St., San Francisco, Cal. "Duthold" "Duotron"

Duotron—see Durkee-Thomas Products Co.

Duthold—see Durkee-Thomas Products Co.

Eaco—see Economic Appliance Co.

Eagle Charger Corp., 121 N. Eighth St., Philadelphia, Pa.  
Cataloged on page.....80

Economic Appliance Co., Irwin, Pa. "Eaco"

Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia, Pa. "Exide"  
Cataloged on page.....38

Elkon Works, 515 Gregory Ave., Weehawken, N. J.

Exel Electrical Products Co., 17 E. 27th St., Bayonne, N. J.

Exide—see Electric Storage Battery Co.

Fansteel Products Co., North Chicago, Ill. "Balkite"

Farad Corp., 239 Centre St., New York, N. Y.

Gould Storage Battery Co., 250 Park Ave., New York, N. Y.

Hawley—see Smith, B. H.

Joyce Bros.—see Helios Co.

Helios Co., 71 Chestnut St., Boston, Mass. "Joyce Bros."

Kic-o—see Kimley Electric Co.

Kimley Electric Co., 2665 Main St., Buffalo, N. Y. "Kic-o"

Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio. "Sillite"

Konite Corp., 25 W. Broadway, New York, N. Y.

Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.

Philadelphia Storage Battery Co., Ontario &amp; C Sts., Philadelphia, Pa. "Philco"

Philco—see Philadelphia Storage Battery Co.

Precision Coll Co., 209 Centre St., New York, N. Y.  
 Precision Electric Mfg. Co. 717 E. Ninth St., Los Angeles, Cal.  
 Rabat—see Radio Rabat Co.  
 Radio Rabat Co., 1758 St. Clair Ave., Cleveland, Ohio "Rabat"  
 Sillite—see Kodel Radio Corp.  
 Smith, B. H., 39 Washington Ave., Danbury, Conn. "Hawley"  
 Storad Mfg. Co., 1400 W. 25th St., Cleveland, Ohio  
 Thor—see Thornton & Everest  
 Thornton & Everest, 1216 S. Olive St., Los Angeles, Cal. "Thor"  
 Union Service Co., Morris Heights Station, New York, N. Y.  
 Unitron Electric Co., 276 New St., Newark, N. J.  
 Vesta Battery Corp., 2100 Indiana Ave., Chicago, Ill.  
 Western Battery & Supply Co., 12th & Lincoln Sts., Denver, Col. "Westric"  
 Western Cable & Light Co., Baldwin, Wis.  
 Westinghouse Union Battery Co., Swissvale, Pa.  
 Westric—see Western Battery & Supply Co.  
 Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio

**RECTIFIERS, Battery Charging Vibrator or Mechanical**

*Complete Apparatus for converting the house lighting A.C. to D.C. by Vibrator or Mechanical Action*  
 Advance Electric Co., 1260 W. Second St., Los Angeles, Cal.  
 Apco Mfg. Co., 1200 Eddy St., Providence, R. I.  
 Cataloged on page.....79  
 F-F—see France Mfg. Co.  
 Fore Electrical Mfg. Co., 5255 N. Market St., St. Louis, Mo.  
 France Mfg. Co., 10321 Berea Rd., Cleveland, Ohio "F-F"  
 Ful-Wave—see Liberty Electric Corp.  
 Holmes Electrical Mfg. Co., 1810 Leland Ave., Chicago, Ill.  
 Homcharger—see Kodel Radio Corp.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Homcharger" "Star"  
 Leich Electric Co., Genoa, Ill.  
 Liberty Electric Corp., Fairfield Ave., Stamford, Conn. "Ful-Wave"  
 Niles Mfg. Co., Ypsilanti, Mich.  
 Star—see Kodel Radio Corp.  
 Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio  
 Cataloged on page.....33  
 Valley Electric Co., 3157 S. Kingshighway, St. Louis, Mo.  
 Vibrator Motor Co., Everett, Wash.

**RECTIFIERS, Chemical—**

see Rectifiers, Battery Charging Electrolytic

**RECTIFIERS, Combined Battery Charging and Plate Current Supply**

*Complete Apparatus taking current from house lighting circuits for use with A Storage Batteries, and for replacing B Batteries on receiving Sets*  
 Balkite—see Fansteel Products Co.  
 DeWitt-La France Co., Cambridge, Mass.  
 Cataloged on page.....63  
 Fansteel Products Co., North Chicago, Ill. "Balkite"  
 Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa. "Philco"  
 Philco—see Philadelphia Storage Battery Co.  
 Rasla Electric, Inc., Brooklyn, N. Y.  
 Cataloged on page.....75

Riley Radio Products Co., Attica, Ind.  
 Storad Mfg. Co., 1400 W. 25th St., Cleveland, Ohio

**RECTIFIERS, Filament Current Supply**

*For use in place of A Batteries on receiving sets and taking current from house lighting circuits*  
 Apco Mfg. Co., 1200 Eddy St., Providence, R. I.  
 Atlas—see Chicago Battery Works  
 Chicago Battery Works, 1200 S. Peoria St., Chicago, Ill. "Atlas"  
 Connor Crouse Corp., 52 Vanderbilt Ave., New York, N. Y. "Filtrex"  
 Copper Corp. (Radio Div.—Dept. N), Cincinnati, Ohio  
 Davy Electrical Corp., 505 Court St., Brooklyn, N. Y.  
 Cataloged on page.....73  
 Electrodyne—see Super-Cell Mfg. Co.  
 Elkon Works, 515 Gregory Ave., Weehawken, N. J.  
 Filtrex—see Connor Crouse Corp.  
 Hayes Products Co., 1301 Fulton St., Grand Haven, Mich.  
 Helios Co., 71 Chestnut St., Boston, Mass. "Joyce Bros."  
 Joyce Bros.—see Helios Co.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio  
 Lasco—see Los Angeles Sales Co.  
 Los Angeles Sales Co., 1211 W. Sixth St., Los Angeles, Cal. "Lasco"  
 Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa. "Philco"  
 Philco—see Philadelphia Storage Battery Co.  
 Reliable Storage Battery Co., 2135-57 Columbus Rd., Cleveland, Ohio  
 San Pedro Radio Laboratory, 1139 Santa Cruz St., San Pedro, Cal. "Saperal"  
 Saperal—see San Pedro Radio Laboratory.  
 Super-Cell Mfg. Co., Akron, Ohio "Electrodyne"  
 Thomas Battery Corp., 511 W. 50th St., New York, N. Y.

**RECTIFIERS, Filament and Plate Current Supply**

*For use in place of both A and B Batteries on receiving sets and taking current from house lighting circuits*  
 A. & B. Eliminator Co., 1273 Bedford Ave., Brooklyn, N. Y. "National"  
 Cooper Corp., Cincinnati, Ohio  
 Electrical Parts Corp., 6611 Euclid Ave., Cleveland, Ohio "PDQ"  
 Gray Products, Inc., 218 Union St., Poughkeepsie, N. Y.  
 National—see A. & B. Eliminator Co.  
 Norden-Hauck, Inc., South St. & Delaware Ave., Philadelphia, Pa.  
 P.D.Q.—see Electrical Parts Corp.  
 Rader Appliance Co., 4912 Hudson Blvd., West New York, N. J. "Run-A-Radio"  
 Run-A-Radio—see Rader Appliance Co.

**RECTIFIERS, Knockdown Plate Current Supply**

*Kit to be assembled for use in place of B Batteries on receiving Sets and taking current from house lighting circuits*  
 Acme Apparatus Co., 37 Osborne St., Cambridge, Mass.  
 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
 American Electric Co., 6401 S. State St., Chicago, Ill. "Burns"  
 Apco Mfg. Co., 1200 Eddy St., Providence, R. I.  
 Cataloged on page.....79  
 Burns—see American Electric Co.  
 Connor Crouse Corp., 52 Vanderbilt Ave., New York, N. Y. "Filtrex"  
 Filtrex—see Connor Crouse Corp.

General Radio Co., 30 State St., Cambridge, Mass.  
 Jacobs, C. E., 2802 N. Kedzie Ave., Chicago, Ill. "Molliformer"  
 Mayollan Radio Corp., 1991 Broadway, New York, N. Y.  
 Molliformer—see Jacobs, C. E.  
 Precision Coll Co., 209 Centre St., New York, N. Y.  
 Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio  
 Schlickerling Products Corp., 401 Mulberry St., Newark, N. J.

**RECTIFIERS, Mechanical—**  
 see Rectifiers, Battery Charging Vibrator

**RECTIFIERS, Plate Current Supply**

*Complete Apparatus for use in place of B Batteries on receiving Sets and taking current from house lighting circuits*  
 Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
 Acme Electric Mfg. Co., 1441 Hamilton Ave., Cleveland, Ohio  
 Cataloged on page.....74  
 Advance Radio Research Laboratories, 254 W. 18th St., New York, N. Y.  
 Aero B—see Martin Co.  
 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
 American Bosch Magneto Corp., Springfield, Mass. "Nobattery"  
 American Electric Co., 6401 S. State St., Chicago, Ill. "Burns"  
 Anderson—see T. T. Radio Co.  
 Apco Mfg. Co., 1200 Eddy St., Providence, R. I. "Rectodyne"  
 Cataloged on page.....79  
 Balkite—see Fansteel Products Co.  
 Braun Co., W. C., 32 S. Clinton St., Chicago, Ill.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 B-T—see Bremer-Tully Mfg. Co.  
 Burns—see American Electric Co.  
 Chamberlin Electric Co., 112 Chambers St., New York, N. Y.  
 Cataloged on page.....75  
 Coast Dry Battery Co., Seattle, Wash.  
 Connor Crouse Corp., 52 Vanderbilt Ave., New York, N. Y. "Filtrex"  
 Consolidated Battery Co., 1600 Walnut St., Philadelphia, Pa.  
 Consomello—see Mazda Radio Mfg. Co.  
 Cooper Corp., Cincinnati, Ohio  
 Cornell Electric Mfg. Co., 135 E. 58th St., New York, N. Y.  
 Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasla"  
 Davis Mfg. Co., Richard T., 5252 Broadway, Chicago, Ill.  
 Davy Electrical Corp., 505 Court St., Brooklyn, N. Y.  
 DeWitt-La France Co., Cambridge, Mass. "Superadio"  
 Cataloged on page.....63  
 Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Super-Ducon"  
 Duo-Rectron—see Radio Corporation of America  
 Durus—see Powrad, Inc.  
 Dynergy—see Powrad, Inc.  
 Electric Heat Control Co., 5902 Carnegie Ave., Cleveland, Ohio "King"  
 Cataloged on page.....78  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Electrodyne—see Super-Cell Mfg. Co.  
 Epom Corp., 114 E. 47th St., New York, N. Y.  
 Erla—see Electrical Research Laboratories  
 Fansteel Products Co., North Chicago, Ill. "Balkite"  
 Farad Corp., 239 Centre St., New York, N. Y.



## RECTIFIERS, Plate Current Supply

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**Farrand Mfg. Co., Thompson Ave. at Court St., Long Island City, N. Y.**  
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**Federal-Brandes, Inc., Woolworth Bldg., New York, N. Y.**

**Ferbend Electric Co., 429 W. Superior St., Chicago, Ill. "Maxmin"**

**Filtrex—see Connor Crouse Corp.**

**Ford Beidler—see Romco Storage Battery Co.**

**Ford Radio & Mica Corp., 111 Bleecker St., New York, N. Y.**  
 Cataloged on page.....116

**Fore Electrical Mfg. Co., 5255 N. Market St., St. Louis, Mo.**

**Freed-Eisemann Radio Corp., Liberty Ave. & Junius St., Brooklyn, N. Y.**

**Freshman Co., Chas., 240 W. 40th St., New York, N. Y.**

**Gardner Electric Mfg. Co., 4427 Hollis St., Emeryville, Cal.**

**George Electric Co., 753 Carleton Ave., St. Paul, Minn.**

**Gould Storage Battery Co., 250 Park Ave., New York, N. Y. "Unpower"**  
 Cataloged on page.....39

**Grisby-Grunow-Hinds Co., 4540 Armitage Ave., Chicago, Ill. "Majestic"**  
 Cataloged on pages.....76 and 77

**Halcyon Insulator Co., 168 Front St., New York, N. Y.**

**Hayes Products Co., 1301 Fulton St., Grand Haven, Mich.**

**Hunt Co., W. D., 4961 Sunset Blvd., Los Angeles, Cal.**

**Igrad Condenser & Mfg. Co., Rochester, N. Y.**

**Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill. "Trans-B-former"**

**King—see Electric Heat Control Co.**

**Kingston—see Kokomo Electric Co.**

**Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio**

**Kokomo Electric Co., Kokomo, Ind. "Kingston"**

**Konite Corp., 25 W. Broadway, New York, N. Y. "No-Hum"**

**Konstant Mfg. Co., 3 W. 29th St., New York, N. Y.**

**Lane Mfg. Co., 2941 W. Lake St., Chicago, Ill.**

**Lester's Radio Shop, 221 W. Second St., Los Angeles, Cal.**

**Mack Co., 1940 W. Delancy St., Philadelphia, Pa.**

**Majestic—see Grigsby-Grunow-Hinds Co.**

**Martin Co., Glenn L., (Radio Division), 16800 St. Clair Ave., Cleveland, Ohio. "Aero B"**

**Maxmin—see Ferbend Electric Co.**

**Mayolian Radio Corp., 1991 Broadway, New York, N. Y.**

**Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Consomello"**

**Modern Electric Mfg. Co., 312-16 Mulberry St., Toledo, Ohio**

**Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.**

**Morradyne Radio Mfg. Co., 5023 Fourth Ave., Brooklyn, N. Y.**

**Morrison, Clarence C., 2 Stone St., New York, N. Y.**

**Nobattray—see American Bosch Magneto Corp.**

**No-Hum—see Konite Corp.**

**Orthodyne Radio Mfg. Co., 24 Wooster St., New York, N. Y.**

**Paramount Radio Corp., 1482 Broadway, New York, N. Y.**

**Philadelphia Storage Battery Co., Ontario & C Sts., Philadelphia, Pa. "Philco"**

**Philco—see Philadelphia Storage Battery Co.**

**Pine-Tree Radio Corp., 12 Bergen St., Brooklyn, N. Y.**

**Pioneer Radio Corp., Plano, Ill.**

**Pontico Corp., Telegraph Rd., Pontiac, Mich.**

**Powerdyne—see W. B. Mfg. Co.**

**Powr-Bee—see Wolke Electric Co.**

**Powr Packt—see Schickerling Products Corp.**

**Powrad, Inc., 486 Johnson Ave., Brooklyn, N. Y. "Durus" "Dynergy"**

**Precision Coll Co., 209 Centre St., New York, N. Y.**

**Precision Electric Mfg. Co., 717 E. Ninth St., Los Angeles, Cal.**

**Radio Corp. of America, 233 Broadway, New York, N. Y. "Duo-Rectron"**  
 Cataloged on pages.....100, 101, 102 and 103

**Radio Equipment Corp., 113 Sixth St., Minneapolis, Minn.**

**Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Receptrad"**

**Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio**

**Rasla—see Davidson Radio Corp.**

**Rasla Electric, Inc., 193 W. Ninth St., Brooklyn, N. Y.**  
 Cataloged on page.....75

**Receptrad—see Radio Receptor Co.**

**Rectodyne—see Apco Mfg. Co.**

**Rectron—see Roentgen Mfg. Co.**

**Resonata Corp. of America—see Tectron Radio Corp.**

**Rhamstine, J. Thos., 508 E. Woodbridge St., Detroit, Mich.**

**Roentgen Mfg. Co., 209 Tehama St., San Francisco, Cal. "Rectron"**

**Romco Storage Battery Co., 146 W. 68th St., New York, N. Y. "Ford Beidler"**

**Roth Radio, Inc., 16 Hudson St., New York, N. Y.**

**Russell Scientific Laboratories, Santa Ana, Cal.**

**San Pedro Radio Laboratory, 1139 Santa Cruz St., San Pedro, Cal. "Saperal"**

**Saperal—see San Pedro Radio Laboratory**

**Schickerling Products Corp., 401 Mulberry St., Newark, N. J. "Powr Packt"**

**Silver-Marshall, 570 W. Jackson Blvd., Chicago, Ill. "S-M"**

**S-M—see Silver-Marshall**

**Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio**  
 Cataloged on page.....33

**Storad Mfg. Co., 1400 W. 25th St., Cleveland, Ohio**

**Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.**

**Super-Cell Mfg. Co., Akron, Ohio "Electrodyne"**

**Super-Ducon—see Dubilier Condenser & Radio Corp.**

**Superadio—see De Witt-La France Co.**

**T. T. Radio Co., 1931 Broadway, New York, N. Y. "Anderson"**

**Tectron Radio Co., 1270 Broadway, New York, N. Y. (Sole Distributors for Resonata Corp. of America, New York, N. Y.)**

**Timmons Radio Products Corp., 339 E. Tulpehocken St. (Germantown), Philadelphia, Pa.**

**Trans-B-former—see Kellogg Switchboard & Supply Co.**

**U-Flex Mfg. Co., 1 S 39th St., Philadelphia, Pa.**

**Union Service Co., Morris Heights Station, New York, N. Y.**

**Unipower—see Gold Storage Battery Co.**

**United Radio & Mfg. Co., Gary, Ind.**

**Unitron Electric Co., 276 New St., Newark, N. J.**

**Valley Electric Co., 3157 S. Kingshighway, St. Louis, Mo.**

**Velvetone Radio Corp., 3731 S. Park Ave., Los Angeles, Cal.**

**Volotone Mfg. Co., Canfield, Ohio**

**W. B. Mfg. Co., 509 W. 56th St., New York, N. Y. "Powerdyne"**

**Waage, A. H., 112 Chambers St., New York, N. Y.**

**Webco—see Webster Co.**

**Webster Co., 3504 W. Lake St., Chicago, Ill. "Webco"**

**Western Electric Novelty Co., Los Angeles, Cal.**

**Western Radio Mfg. Co., 134 W. Lake St., Chicago, Ill. "Westrad"**

**Westrad—see Western Radio Mfg. Co.**

**Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio**

**Wilson Mfg. Co., E. H., 1325 Tenth St., East Moline, Ill.**

**Wolke Electric Co., 618 S. First St., Louisville, Ky. "Powr-Bee"**

**Zenith Radio Corp., 310 S. Michigan Ave., Chicago, Ill.**

## RECTIFIERS, Power Amplifiers and Combination—

see Amplifiers, Power  
 also Rectifiers, Battery Charging Bulb

## RECTIFIERS, Vibrator—

see Rectifiers, Battery Charging  
 Vibrator

## REDUCERS, Static

For Reducing Static Interference; see also Traps, Wave

**ABC—see Freeport Radio Corp.**

**Breeze Metal Hose & Mfg. Co., 22 S. Sixth St., Newark, N. J.**

**Cloverleaf Mfg. Co., 2714-A S. Canal St., Chicago, Ill.**

**Freeport Radio Corp., 11½ W. Stephenson St., Freeport, Ill. "ABC"**

**Double Dee Mfg. Co., 4512 S. Vermont Ave., Los Angeles, Cal.**

**H. & F. Radio Laboratories, 168 Washington St., New York, N. Y.**

**Muter Co., Leslie F., 76th & Greenwood Sts., Chicago, Ill.**

**Static Eliminator Co., 101 E. Third St., Cincinnati, Ohio**

**Steinite Laboratories, Radio Bldg., Atchison, Kan.**

**Tanlake Radio Laboratories, 96 Second Ave., New York, N. Y.**

**Tidmarsh's Radio Supply, 1535 South A St., Elwood, Ind.**

## REJUVENATORS, Tube—

see Reactivators, Tube

## RELAYS, Cut-in

Relay to automatically cut in and out the Receiver when transmitting

**Leach Relay Co., San Juan, Bautista, Cal.**

## RELAYS, Trickle Charging

For automatically disconnecting Trickle Chargers when operating Radio Set

**Aeme Electric & Mfg. Co., 1441 Hamilton Ave., Cleveland, Ohio**  
 Cataloged on page.....74

**Apco Mfg. Co., 1200 Eddy St., Providence, R. I.**  
 Cataloged on page.....79

**Dent Radio Co., Geo. F., Bay City, Mich.**

**Electric Storage Battery Co., Allegheny Ave. and 19th St., Philadelphia, Pa. "Exide"**  
 Cataloged on page.....38

**Exide—see Electric Storage Battery Co.**

**Liberty Bell Mfg. Co., Minerva, Ohio**

**Precise Mfg. Corp., 254 Mill St., Rochester, N. Y.**  
 Cataloged on page.....121

**Rasla Electric, Inc., 193 W. Ninth St., Brooklyn, N. Y.**  
 Cataloged on page.....75

**Reliable Parts Mfg. Co., 2819-33 Prospect Ave., Cleveland, Ohio**

Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Unitron Electric Co., 276 New St., Newark, N. J.  
 Walbert Mfg. Co., 925 Wrightwood Ave., Chicago, Ill.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.  
 Cataloged on page.....84

**REMAGNETIZERS**

*Instrument for remagnetizing telephone and relay magnets*  
 American Electric Co., 6401 S. State St., Chicago, Ill.

**REPRODUCERS—**

see Speakers, Loud

**RESISTANCE ADAPTERS—**

see Adapters, Resistance

**RESISTANCE ALLOYS—**

see Wire, Bare Resistance

**RESISTANCE, Audio Transforming—**

see Resistors, Audio Frequency

**RESISTANCE BOXES—**

see Boxes, Standard Resistance

**RESISTANCE HOLDERS—**

see Holders, Grid Leak

**RESISTANCE LEAKS—**

see Grid-Leaks

**RESISTANCE MOUNTINGS—**

see Holders, Grid Leak

**RESISTANCE PHONE PLUGS, Variable—**

see Plugs, Variable Resistance Phone

**RESISTANCE PAPER—**

see Paper, Resistance

**RESISTANCE SOCKET ADAPTERS—**

see Adapters, Resistance Socket

**RESISTANCE WIRE—**

see Wire, Bare Resistance

**RESISTANCES, Fixed**

*Small compact Units of Fixed Resistances for Current Control; for Grid Leaks—see Grid-Leaks, Fixed; also Grid-Leaks, Variable*  
 Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y. "Resistofomers" Cataloged on page.....47  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y. Cataloged on page.....53  
 Apco Mfg. Co., 1200 Eddy St., Providence, R. I.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.

Cole Radio Mfg. Corp., 535 Bloomfield Ave., Bloomfield, N. J. "Meggit"  
 Continental Carbon Co., West Park, Cleveland, Ohio  
 Crescent Radio Supply Co., 5 Liberty St., Jamaica, N. Y. "Lavite"  
 Daven Radio Corp., 158 Summit St., Newark, N. J.  
 DeJur Products Co., 199 Lafayette St., New York, N. Y.  
 Deutschmann, Tobe C., 46 Cornhill St., Boston, Mass.  
 Durham—see International Resistance Co.  
 Eastern Coil Corp., 22 Warren St., New York, N. Y.  
 Elkay—see Langbein-Kaufman Radio Co.  
 International Resistance Co., Perry Bldg., Dept. K., Philadelphia, Pa. "Durham" Cataloged on page.....82  
 Kroblak—see Mountford, C. E.  
 Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn. "Elkay" Cataloged on page.....104  
 Lavite—see Crescent Radio Supply Co.  
 Lynch, Inc., Arthur H., Broadway & 57th St., New York, N. Y. Cataloged on page.....83  
 Master Radio Instrument Co., 153 Wright St., Newark, N. J. "Masto"  
 Masto—see Master Radio Instrument Co.  
 Meggit—see Cole Radio Mfg. Corp.  
 Micamold Radio Corp., Brooklyn, N. Y. Cataloged on page.....50  
 Mountford, C. E., 463 Greenwich St., New York, N. Y. "Kroblak"  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill. Cataloged on page.....124  
 Naxon Electrical Laboratories, 4524 Cottage Grove Ave., Chicago, Ill.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Polymet Mfg. Corp., 599 Broadway, New York, N. Y. Cataloged on page.....72  
 Resistofomers—see Aerovox Wireless Corp.  
 Veby Radio Co., 47 Morris Ave., Newark, N. J.  
 Vitrohm—see Ward Leonard Electric Co.  
 Ward Leonard Electric Co., 37 South St., Mt. Vernon, N. Y. "Vitrohm" Cataloged on page.....83  
 Yaxley Mfg. Co., 9 S. Clinton Ave., Chicago, Ill.

**RESISTANCES, Rheostat Adapting**

*For adding external Resistances to Rheostat Frame when changing Circuit to use small current consuming Tubes*  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.  
 C-H—see Cutler-Hammer Mfg. Co.  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

**RESISTANCES, Self Adjusting**

*Equilizing Resistances in filament circuits to replace Variable Rheostats; see also Rheostats, Battery*  
 Amperite—see Radiall Co.  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y. Cataloged on page.....53  
 Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
 Daven Radio Corp., 158 Summit St., Newark, N. J.  
 Elkay—see Langbein-Kaufman Radio Co.  
 Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn. "Elkay" Cataloged on page.....104

Muter Co., Leslie F., 76th St. and Greenwood Ave., Chicago, Ill. Cataloged on page.....124  
 Radiall Co., 50-52 Franklin St., New York, N. Y. "Amperite" Cataloged on page.....84

**RESISTANCES, Standard—**

see Boxes, Standard Resistance also Resistances, Standard Unit

**RESISTANCES, Standard Unit**

*Accurately adjusted unit of Resistance; for Variable Resistance Standards, see Boxes, Standard Resistance*  
 General Radio Co., 30 State St., Cambridge, Mass.

**RESISTANCES, Variable**

*Small compact Units of Variable Resistances of greater than 2,000 ohms*  
 Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleyohm"  
 American Mechanical Laboratories, 285 N. Sixth St., Brooklyn, N. Y. "Claro-stat" Cataloged on page.....82  
 Bradleyohm—see Allen-Bradley Co.  
 Bremer-Tulley Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 B-T—see Bremer-Tulley Mfg. Co.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Hi-Ohm"

Central Radio Laboratories, 16 Keefe Ave., Milwaukee, Wis. "Centralab" Cataloged on page.....85

Centralab—see Central Radio Laboratories.  
 Clarostat—see American Mechanical Laboratories

Cole Radio Mfg. Corp., 535 Bloomfield Ave., Bloomfield, N. J. "Meggit"

DeJur Products Co., Lafayette & Broome Sts., New York, N. Y.

Electrad, Inc., 428 Broadway, New York, N. Y. "Royalty"

Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill. Cataloged on page.....86

Hi-Ohm—see Carter Radio Co.

Meggit—see Cole Radio Mfg. Corp.

Mar-Co—see Martin-Copeland Co.

Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"

Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill. Cataloged on page.....124

Naxon Electrical Laboratories, 4524 Cottage Grove Ave., Chicago, Ill.

Pacent Electric Co., 91 Seventh Ave., New York, N. Y.

Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

Royalty—see Electrad, Inc.

Walwart Electric Mfg. Co., 308 S. Green St., Chicago, Ill.

**RESISTORS—**

see Grid-Leaks also Resistances, Fixed also Resistances, Variable also Resistors, Audio Frequency also Resistors, Battery Charging also Resistors, Phantom Antenna

**RESISTORS, Audio Frequency**

*Small compact high Fixed Resistance and Condenser Units for use in constructing Resistance Coupled Amplifiers*  
 Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y. "Resistofomers" Cataloged on page.....47

**RESISTORS, Audio Frequency****Continued**

- Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleyunit"
- Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
Cataloged on page.....53
- Bradleyunit—see Allen-Bradley Co.
- Cole Radio Mfg. Corp., 535 Bloomfield Ave., Bloomfield, N. J. "Meggit"
- Daven Radio Corp., 158 Summit St., Newark, N. J.
- DeJur Products Co., 199 Lafayette St., New York, N. Y.
- Durham & Co., 1936 Market St., Philadelphia, Pa.
- Electrad, Inc., 428 Broadway, New York, N. Y.
- Haddaway, Inc., 1806 S. Hoover St., Los Angeles, Cal.
- Lynch, Inc., Arthur H., Broadway & 57th Sts., New York, N. Y.  
Cataloged on page.....83
- Mar-Co—see Martin-Copeland Co.
- Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"
- Meggit—see Cole Radio Mfg. Corp.
- Micamold Radio Corp., Brooklyn, N. Y.  
Cataloged on page.....50
- Mountford, C. E., 463 Greenwich St., New York, N. Y.
- Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
Cataloged on page.....124
- New York Coil Co., 338 Pearl St., New York, N. Y.
- Poly—see Polymet Mg. Corp.
- Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "Poly"  
Cataloged on page.....72
- Resist-O-Former — see Spartan Electric Corp.
- Resistofomers — see Aerovox Wireless Corp.
- Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y. "Resist-O-Former"
- Tridot Electric Co., 16 Hudson St., New York, N. Y.
- Veby Radio Co., 47 Morris Ave., Newark, N. J.

**RESISTORS, Battery Charging**

*For use in D.C. battery charging equipment*

- Ward Leonard Electric Co., 37 South St., Mt. Vernon, N. Y.  
Cataloged on page.....83
- Niles Mfg. Co., Ypsilanti, Mich.

**RESISTORS, Phantom Antenna**

*Compact variable resistances for laboratory use in testing transmitters*

- General Radio Co., 30 State St., Cambridge, Mass.

**RESONATORS, Reproducing—**

see Horns  
also Speakers, Loud

**REVIVORS, Tube—**

see Reactivators, Tube

**RHEOSTAT ADAPTING RESISTANCES—**

see Resistances, Rheostat Adapting

**RHEOSTAT DIALS—**

see Dials

**RHEOSTAT INDEX PLATES—**

see Plates, Rheostat Index

**RHEOSTAT WINDINGS—**

see Windings, Potentiometer and Rheostat

**RHEOSTAT WIRE—**

see Wire, Bare Resistance

**RHEOSTATS, Battery**

*Variable low Resistance Units*

- Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.
- Aerovox Wireless Corp., 489-93 Broome St., New York, N. Y.
- Ajax—see Philmore Mfg. Co.
- Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.
- Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleystat"
- Ambassador Sales Co., 108 Greenwich St., New York, N. Y.
- American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Kelford"
- Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
Cataloged on page.....53
- Aristocrat—see Kurz-Kasch Co.
- Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Bestone—see Hyman & Co.
- Bisby Mfg. Co., 54 Warren St., New York, N. Y.
- B. M. S.—see Brooklyn Metal Stamping Corp.
- Bradleystat—see Allen-Bradley Co.
- Breco Radio Corp., 637 Courtlandt Ave., New York, N. Y.
- Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "B. M. S."
- Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.
- Buffalo—see DeJur Products Co.
- Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"
- Central Radio Laboratories, 16 Keefe Ave., Milwaukee, Wis. "Centralab"  
Cataloged on page.....85
- Centralab — see Central Radio Laboratories.
- C-H—see Cutler-Hammer Mfg. Co.
- Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.
- Chelton Electric Co., 4861 Stenton Ave., Philadelphia, Pa.
- Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"
- D. A. Radio Co., 30 Hollister St., Buffalo, N. Y. "Socostat"
- DeJur Products Co., 199 Lafayette St., New York, N. Y. "Buffalo"
- Doran & Sons, James C., 150 Chestnut St., Providence, R. I.
- Downey Insulation Co., 17th & Arch Sts., Philadelphia, Pa.
- Duostat—see Premier Electric Co.
- Duotrol — see Malone-Lemmon Products, Inc.
- Dymac—see Electric Products Mfg. Co.
- Electrad, Inc., 428 Broadway, New York, N. Y.
- Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"
- Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"
- English-Whitman Products, 120 Broadway, New York, N. Y. "En-Whit"
- En-Whit—see English-Whitman Products.
- Erla—see Electrical Research Laboratories
- E-Z Stat—see Polymet Mfg. Corp.
- Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.
- Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.
- Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio.
- Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Id"

- Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
Cataloged on page.....86
- General Instrument Corp., 479 Broadway, New York, N. Y.
- General Radio Co., 30 State St., Cambridge, Mass.
- Gillfillan Bros., 1815 W. 16th St., Los Angeles, Cal.
- Goyer Co., Willimantic, Conn. "Windham"  
Cataloged on page.....54
- H. & H.—see Hart & Hegeman Mfg. Co.
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"
- Hartman Electrical Mfg. Co., Mansfield, Ohio
- Haydon & Haydon, 73 Warren St., New York, N. Y. "Velvetuch"
- Hipco—see Hipwell Mfg. Co.
- Hipwell Mfg. Co., 825 North Ave., N. S. Pittsburgh, Pa. "Hipco"
- Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.
- Howard Radio Co., 469 E. Ohio St., Chicago, Ill.
- Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"
- Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.
- Imp—see Carter Radio Co.
- Inter-State Radio Co., 98 Park Pl., New York, N. Y.
- K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.
- Kelford—see American Specialty Co.
- Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.
- Keystone Radio Co., College Ave. & Craig St., Greenville, Pa.
- Klosner Radio Corp., 1022 E. 178th St., New York, N. Y.
- Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Quality"
- Kurz-Kasch Co., Dayton, Ohio. "Aristocrat"  
Cataloged on page.....58
- Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.
- Malone-Lemmon Products, Inc., 130 Waynewood Pl., Plainfield, N. J. "Duotrol"
- Mar-Co—see Martin-Copeland Co.
- Marion Electrical Mfg. Co., 24 Cliff St., Jersey City, N. J.
- Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"
- Metro Electric Mfg. Co., 123 Prince St., New York, N. Y.
- Microstat—see Premier Electric Co.
- Mohawk Corp., of Illinois, 2222 Diversey Parkway, Chicago, Ill.
- Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y.
- Morse Co., Frank W., 289 Congress St., Boston, Mass.
- Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
Cataloged on page.....124
- National Electric Co., 165 Broadway, New York, N. Y.
- Pacent Electric Co., 91 Seventh Ave., New York, N. Y.
- Parker-Aeolus Corp., 161 Grand St., New York, N. Y.
- Parkin Mfg. Co., Grand Ave., San Rafael, Cal.
- Paterson Radio Co., 213 Market St., Paterson, N. J.
- Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Polymet Mfg. Corp., 599 Broadway, New York, N. Y. "E-Z Stat"  
Cataloged on page.....72
- Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Microstat" "Duostat"
- Prudence Electric Co., 546 Broadway, New York, N. Y.
- Quality—see Kodel Radio Corp.
- Radio Corp. of America, 233 Broadway, New York, N. Y.



Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.  
 Reco Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.  
 Reichmann Co., 1725 W. 74th St., Chicago, Ill.  
 Reliance Die & Stamping Co., 501 N. La-Salle St., Chicago, Ill.  
 Schiff Laboratories, 283 Glenwood Ave., Bloomfield, N. J.  
 Seiss Mfg. Co., Phillips Ave. & N. Y. C. R.R., Toledo, Ohio  
 Sheffield Trimming & Stamping Corp., 211 Centre St., New York, N. Y. "Stasco"  
 Socostat—see D. A. Radio Co.  
 Standard Radio Co., Hoboken, N. J.  
 Stasco—see Sheffield Trimming & Stamping Corp.  
 Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio  
 Sumter Radio Mfg. Co., Telephone St., Sumter, S. C.  
 Teleradio Engineering Corp., 490 Broome St., New York, N. Y.  
 Terrace Radio Mfg. Corp., 26 Dock St., Yonkers, N. Y.  
 Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio  
 United Scientific Laboratories, Inc., 80 Fourth Ave., New York, N. Y.  
 Un-X-Ld—see Forman & Co.  
 Velvetuch—see Haydon & Haydon  
 Victoreen—see Walker Co.  
 Walker Co., George W., 6524 Carnegie Ave., Cleveland, Ohio "Victoreen"  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 Windham—see Goyer Co.  
 Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
 Cataloged on page .....53  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.  
 Cataloged on page .....84

**RHEOSTATS, Filament—**  
 see Rheostats, Battery

**RHEOSTATS, Laboratory**  
*Specially designed Carbon Pile or Resistance Wire and Slider Type Rheostats*  
 Biddle, James G., 1211 Arch St., Philadelphia, Pa. "Jagabi"  
 Central Scientific Co., 460 E. Ohio St., Chicago, Ill.  
 Jagabi—see Biddle, James G.

**RHEOSTATS, Self Adjusting—**  
 see Resistances, Self Adjusting

**RHEOSTATS, Vernier Battery**  
*Variable Vernier Low Resistance Units*  
 Frost Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.

**RIBBON ANTENNA WIRE—**  
 see Wire, Flat or Strip Copper

**RIVETING MACHINES—**  
 see Machines, Eyelet Setting

**RIVETS, Brass and Copper**  
 Blake & Johnson Co., Waterbury, Conn.  
 Cataloged on page .....88  
 Bridgeport Brass Co., Bridgeport, Conn.  
 Champion Brass Works, 260 Division St., Coldwater, Mich.  
 Eagle—see Plume & Atwood Mfg. Co.  
 Grammes & Sons, L. F., Allentown, Pa.  
 Hassal, John, 42 Oakland St., Brooklyn, N. Y.

New England Screw Co., 44 Farnsworth St., Boston, Mass.  
 Plume & Atwood Mfg. Co., 470 Bank St., Waterbury, Conn. "Eagle"  
 Progressive Mfg. Co., 52 Norwood St., Torrington, Conn.  
 Rome Brass & Copper Co., Bouck St., Rome, N. Y.  
 Steele & Johnson Mfg. Co., 779 S. Main St., Waterbury, Conn.  
 Stimpson Co., Edwin B., 74 Franklin Ave., Brooklyn, N. Y.

**RIVETS, Platinum—**  
 see Platinum

**RIVETS, Silver—**  
 see Platinum

**ROD ALUMINUM—**  
 see Aluminum, Sheet

**ROD FIBRE—**  
 see Fibre, Vulcanized

**RODS, Brass and Copper—**  
 see Brass and Copper, Sheet

**RODS, Ground**  
*For use as driven Grounds*  
 Burn-Boston Battery & Mfg. Co., 80 Boylston St., Boston, Mass.  
 Chicago Insulated Wire & Mfg. Co., Sycamore, Ill.  
 Copperweld Steel Co., Rankin, Pa.  
 Electric Service Supplies Co., 17th & Cambria Sts., Philadelphia, Pa. "Keystone"  
 Hallett Iron Works, Harvey, Ill.  
 Hubbard & Co., 62d St. & A. V. R. R., Pittsburgh, Pa.  
 Keystone—see Electric Service Supplies Co.  
 Lesco—see Line Equipment Sales Co.  
 Line Equipment Sales Co., 1241 E. 45th St., Cleveland, Ohio. "Lesco"

**RODS, Platinum—**  
 see Platinum

**RODS, Silver—**  
 see Platinum

**ROSIN CORE SOLDER—**  
 see Solder, Wire and Strip

**ROTARY HACK SAWS—**  
 see Cutters, Panel Hole

**ROTARY SPARK GAPS—**  
 see Gaps, Rotary Spark

**ROUND NOSE PLIERS—**  
 see Pliers, Round Nose

**RUBBER BATTERY JARS—**  
 see Jars, Rubber Battery

**RUBBER BATTERY MATS—**  
 see Mats, Rubber Battery

**RUBBER BINDING POSTS—**  
 see Posts, Composition Binding  
 also Posts, Lettered Binding

**RUBBER COVERED WIRE—**  
 see Wire, Rubber Covered  
 also Wire, Rubber Covered and Braided

**RUBBER DIALS—**  
 see Dials, Rubber

**RUBBER, Hard**  
*Sheet, Rod and Tube*  
 Aetna Rubber Co., 815 E. 79th St., Cleveland, Ohio "Aetnalite"  
 Aetnalite—see Aetna Rubber Co.  
 American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"  
 Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio  
 Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio  
 Hood Rubber Co. (Hard Rubber Dept.), Watertown, Mass.  
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 Radion—see American Hard Rubber Co.  
 Sun Rubber Co., Barberton, Ohio  
 United States Rubber Co., 1790 Broadway, New York, N. Y.  
 Vulcanized Rubber Co., 251 Fourth Ave., New York, N. Y. "Vulco"  
 Vulco—see Vulcanized Rubber Co.

**RUBBER HORNS—**  
 see Horns, Rubber

**RUBBER PANELS—**  
 see Rubber, Hard

**RUBBER PHONE CUSHIONS—**  
 see Cushions, Rubber Phone

**RUBBER, Rod—**  
 see Rubber, Hard

**RUBBER SET CUSHIONS—**  
 see Cushions, Rubber Set

**RUBBER, Sheet—**  
 see Rubber, Hard

**RUBBER SOCKET CUSHIONS—**  
 see Cushions, Rubber Socket

**RUBBER TUBES—**  
 see Rubber, Hard

**RUBBER TUBING—**  
 see Tubing, Soft Rubber

**RUBBER VARIOCOUPERS—**  
 see Varlocouplers

**RUBBER VARIOMETERS—**  
 see Variometers

**SALTS, Soldering—**  
 see Flux, Soldering

**SAND PAPER—**  
 see Paper, Emery and Sand

**SATURATING MACHINES—**see *Machines, Coil Impregnating***SAWS, Panel**

Barker &amp; Co., R. L., 642 W. Washington Blvd., Chicago, Ill.

**SAWS, Rotary Hack—**see *Cutters, Panel Hole***SCREW-DRIVERS—**see *Screw-Drivers, Standard***SCREW-DRIVERS, Standard**

Bernz Co., Otto, 17 Ashland St., Newark, N. J.

Billings & Spencer Co., Laurel & Park Sts., Hartford, Conn.

Blue Line—see *Harding Mfg. Co.*

Braunsdorf-Mueller Co., 205 Madison St., Elizabeth, N. J.

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"

Bro-Mac-O—see *Brown, McPherson & Co.*

Brown-McPherson & Co., Wallingford, Conn. "Bro-Mac-O"

Champion—see *Union Hardware Co.*

Chapin-Stephens Co., Pine Meadow, Conn.

Cincinnati Tool Co., 1951 Waverly Ave. (Norwood), Cincinnati, Ohio

Cronk & Carrier Mfg. Co., Montour Falls, N. Y. "Elmira"

Disston & Sons, Henry (Tacony), Philadelphia, Pa.

Elmira—see *Cronk & Carrier Mfg. Co.*

Everhot Mfg. Co., Maywood, Ill. "Sure-Grip"

Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland, Ohio

Goodell-Pratt Co., Wells St., Greenfield, Mass.

Harding Mfg. Co., Mansfield, Mass. "Blue Line"

Holt Co., G. L., 16 Sigourney St., Hartford, Conn. "Sure Holt"

Mayhew Steel Products, Inc., Shelburne Falls, Mass.

Miller Rubber Co., of N. Y., S. High St., Akron, Ohio. "Ra-Drivers"

Mound Tool Co., 1203 S. Seventh St., St. Louis, Mo.

North Bros. Mfg. Co., American St. & Lehigh Ave., Philadelphia, Pa. "Yankee"

Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"

Pexto—see *Peck, Stow & Wilcox Co.*

Radiogem Corp., 66 W. Broadway, New York, N. Y. "Rageco"

Radio-Lectric—see *Bridgeport Hardware Mfg. Corp.*

Ra-Driver—see *Miller Rubber Co. of N. Y.*

Rageco—see *Radiogem Corp.*

Six-Sixty—see *Smith & Co.*

Smith & Co., H. D., Plantsville Conn. "Six-Sixty"

Stanley Rule & Level Co., 111 Elm St., New Britain, Conn.

Sure-Grip—see *Everhot Mfg. Co.*

Sure Holt—see *Holt Co.*

Swan Co., Jas. 279 Bank St., Seymour, Conn.

Thompson Drop Forge Co., W. Main St., Plantsville, Conn.

Union Hardware Co., 535 Migeon Ave., Torrington, Conn. "Champion"

Waterbury Button Co., Waterbury, Conn.

Yankee—see *North Bros. Mfg. Co.*

**SCREW-EYES, Insulated***Small insulated screw-eyes for supporting aeri-als, ground or lead-in wires*

Hubbard &amp; Co., 62d St. &amp; A. V. R. R., Pittsburgh, Pa. "Peirce"

Parker Metal Goods Co., 28 Cherry St., Worcester, Mass.

Peirce—see *Hubbard & Co.*

Trenle Porcelain Co., East Liverpool, Ohio

**SCREW MACHINE PRODUCTS, Automatic***Small Machine Screw Parts made to Order*

Accurate Tool Works, Erie, Pa.

Ajax—see *Philmore Mfg. Co.*

Alemite Die—Casting & Mfg. Co., 2640 Belmont Ave., Chicago, Ill.

Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.

American Die & Tool Co., Reading, Pa.

American Metal Works, 4861 Stenton Ave., Philadelphia, Pa.

American Specialty Co., 165 Holland Ave., Bridgeport, Conn.

Ansonia Mfg. Co., Ansonia, Conn.

Ansonia Novelty Co., 285 Main St., Ansonia, Conn.

Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.

Atlantic Mfg. Co., 20 New Haven Ave., Milford, Conn.

Automotive Electric Service Corp., 210 Paterson Turnpike, North Bergen, N. J.

Autoscrew Co., 355 W. Broadway, New York, N. Y.

Barnes Co., William, Bristol, Conn.

Bell Co., David, Buffalo, N. Y.

Blake & Johnson Co., 1498 Thomaston Ave., Waterbury, Conn.  
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Bridgeport Brass Co., E. Main St., Bridgeport, Conn.

Brown Bag Filling Machine Co., 10 Main St., Fitchburg, Mass.

Brown-McLaren Mfg. Co., 5853 Fort St., W., Detroit, Mich.

Cap Screw & Nut Co. of America, 290 Hudson St., New York, N. Y.

Carey & Son, F. W., Warren, Mass.

Chicago Nut Mfg. Co., 2513 W. Cullerton St., Chicago, Ill.  
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Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.

Christiansen & Co., N. M., Boston, Mass.

Circle T—see *Trumbull Electric Mfg. Co.*

Clark, Cadle, Harmon Corp., 192 Mill St., Rochester, N. Y.

Columbia Metal Products Co., 357 E. Ohio St., Chicago, Ill.

Commonwealth Brass Corp., 5781 Commonwealth Ave., Boston, Mass.

Conrad Bros., 1069 Cooper Ave., Evergreen, N. Y.

Corbin Screw Corp., 227 High St., New Britain, Conn.

Davis & Hemphill, Elkridge, Md.

Dearburn, J. W., 70 S. Cliff St., Ansonia, Conn.

Doran & Sons, James C., 150 Chestnut St., Providence, R. I.

Eclipse Machine Co., 15th & River Sts., Hoboken, N. J.

Electric Novelty Works, 965 Howard St., San Francisco, Cal.

Eloc Radio Corp., 88 E. Kinney St., Newark, N. J.

Eureka Tin Ware Mfg. Co., 629 E. 16th St., New York, N. Y.

Eureka Tool & Machine Co., 42 Walnut St., Newark, N. J.

Everitt Co., 265 Franklin St., Boston, Mass.

Fisher Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.

General Mfg. Co., Waterbury, Conn.

Gray & Danielson Mfg. Co., 250 First St., San Francisco, Cal.

Hartford Machine Screw Co., Capitol Ave., Hartford, Conn.

Hartford Metal Products Co., 112 Allyn St., Hartford, Conn.

Hershey Metal Products Co., Seymour Ave. & Hawkins St., Derby, Conn.

Hubbell, Harvey, Inc., State St. & Bostwick Ave., Bridgeport, Conn.

Hubbs, C. A., 50 Church St., New York, N. Y.

Hudson Metal Products Co., 120 N. Green St., Chicago, Ill.

Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago, Ill.

Instant Electric Water Heater Co., 304 E. Washington Ave., Bridgeport, Conn.

Kings Mfg. Co., 32 33d St., Brooklyn, N. Y.

Lebanon Machine Screw Co., Fourth Ave. & Weidman St., Lebanon, Pa.

Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.

Livermore, Homer F., 10 Linden St. (Allston), Boston, Mass.

Lovejoy Chaplet Co., Hoosick Falls, N. Y.

Mattatuck Mfg. Co., E. Main St., Waterbury, Conn.

Meisel Press Mfg. Co., 944 Dorchester Ave., Boston, Mass.

Motor Specialties Corp., Ft. of Elliott Ave., Detroit, Mich.

Mueller Brass Co., Port Huron, Mich.

Namco—see *National Acme Co.*

National Acme Co., E. 131st St. & Coit Ave., Cleveland, Ohio. "Namco"

New England Screw Co., 44 Farnsworth St., Boston, Mass.

New York Mica & Mfg. Co., Auburn, N. Y.

Olson Mfg. Co., 56 Commercial St., Worcester, Mass.

Ontario Machine Screw Co., Rorer St., Philadelphia, Pa.

Osland, Inc., 132 Fifth Ave., New York, N. Y.

Peck Spring Co., Plainville, Conn.

Perry-Fay Co., Elyria, Ohio

Pheoll Mfg. Co., 5710 Roosevelt Rd., Chicago, Ill.  
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Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Poorman, J. E., 1827 W. Bristol St., Philadelphia, Pa.

Potter Tool & Machine Works, 79 E. 130th St., New York, N. Y.

Precision Machine Co., 2530 Cornell St., Indianapolis, Ind.

Progressive Mfg. Co., 52 Norwood St., Torrington, Conn.

Quadriga Mfg. Co., 213 W. Grand Ave., Chicago, Ill.

Royersford Screw Machine Works, Royersford, Pa.

Seovill Mfg. Co., Waterbury, Conn.  
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Screw Machine Products Corp., 1012 Eddy St., Providence, R. I.

Screw Machine Specialty Co., 314 29th St., Pittsburgh, Pa.

Spencer's Sons, I. S., Guilford, Conn.

Steele & Johnson Mfg. Co., 779 S. Main St., Waterbury, Conn.

Steinen & Co., William, 293 Washington St., Newark, N. J.

Stuckeman Bros., 204 Warrington Ave., Pittsburgh, Pa.

Thomaston Mfg. Co., Thomaston, Conn.

Torrington Mfg. Co., 5 Franklin St., Torrington, Conn.

Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T"

Union Radio Corp., 124 Sussex Ave., Newark, N. J.

Up-To-Date Machine Works, 2915 S. Wash Ave., Chicago, Ill.

Viking Tool & Machine Co., 745 65th St., Brooklyn, N. Y.

Warner Bros. Co., 325 Lafayette St., Bridgeport, Conn.

Waterbury Brass Goods Corp., 26 Crane St., Waterbury, Conn.

Waterbury Mfg. Co., 236 Grant St., Waterbury, Conn.

Western Screw Products Co., Main & George Sts., St. Louis, Mo.

Westwyre Co., 283 Elm St., Westfield, Mass.

Wheeler & Son, Frank, Meriden, Conn.

Wicaco Screw & Machine Works, Stenton Ave. & Loudon St., Philadelphia, Pa.

**SCREWS, Brass Machine**

American Screw Co., 21 Stevens St., Providence, R. I.  
 Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.  
 Blake & Johnson Co., 1498 Thomaston Ave., Waterbury, Conn.  
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 Bridgeport Screw Co., Williston St. & Union Ave., Bridgeport, Conn.  
 Chicago Nut Mfg. Co., 2513 W. Cullerton St., Chicago, Ill.  
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 Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.  
 Continental Wood Screw Co., Mt. Pleasant St., New Bedford, Mass. "Holtite"  
 Corbin Screw Corp., 227 High St., New Britain, Conn.  
 General Mfg. Co., Waterbury, Conn.  
 Hartford Machine Screw Co., Capitol Ave., Hartford, Conn.  
 Holtite—see Continental Wood Screw Co.  
 Hubbell, Harvey, Inc., State St. & Bostwick Ave., Bridgeport, Conn.  
 New England Screw Co., 44 Farnsworth St., Boston, Mass.  
 Pawtucket Screw Co., Pawtucket, R. I.  
 Pheoll Mfg. Co., 5710 Roosevelt Rd., Chicago, Ill.  
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 Progressive Mfg. Co., 52 Norwood St., Torrington, Conn.  
 Reading Screw Co., Norristown, Pa.  
 Reede & Prince Mfg. Co., Duncan Ave., Worcester, Mass.  
 Scovill Mfg. Co., Waterbury, Conn.  
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 Screw Machine Specialty Co., 314 29th St., Pittsburgh, Pa.  
 Warner Bros. Co., 325 Lafayette St., Bridgeport, Conn.  
 Weber Electric Co., Brooklyn Sta., Cleveland, Ohio

**SCREWS, Brass Wood**

American Screw Co., 21 Stevens St., Providence, R. I.  
 Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.  
 Bridgeport Screw Co., Williston St. & Union Ave., Bridgeport, Conn.  
 Continental Wood Screw Co., Mt. Pleasant St., New Bedford, Mass. "Holtite"  
 Corbin Screw Corp., 227 High St., New Britain, Conn.  
 Holtite—see Continental Wood Screw Co.  
 Reading Screw Co., Norristown, Pa.  
 Reed & Prince Mfg. Co., Duncan Ave., Worcester, Mass.

**SCRIBERS, Machinists'**

*For laying out and marking work on Hard Rubber, Brass, Steel, Wood, etc.*  
 Braunsdorf-Mueller Co., 205 Madison St., Elizabeth, N. J.  
 Bridgeport Hardware Mfg. Corp., Iransitan Ave., Bridgeport, Conn., "Radio-Lectric"  
 Brown & Sharpe Mfg. Co., Promenade St., Providence, R. I.  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Starrett Co., L. S., 165 Crescent St., Athol, Mass.

**SEALING COMPOUNDS—**

see Compounds, Battery Sealing

**SELECTORS, Wave—**

see Traps, Wave

**SELENIUM COILS—**

see Cells, Phono-Electric

**SELF-ADJUSTING RESISTANCES—**

see Resistances, Self-Adjusting

**SEPARATORS, Rubber Battery—**

see Rubber, Hard

**SEPARATORS, Wood Storage Battery**

*Wooden Sheets for separating Storage Battery Plates*

Arrow Mill Co., 4420 W. 26th St., Chicago, Ill.  
 Baltimore Battery Separator Co., 216 Cold Spring Lane (Roland Park), Baltimore, Md.  
 Darling Co., Len H., Addison, Mich.  
 Ermet Mfg. Co., 16th St. & Sherman Dr., Indianapolis, Ind.  
 Estes & Sons, E. B., 362 Fifth Ave., New York, N. Y.  
 Indiana Separator Co., 904 Dorman St., Indianapolis, Ind.  
 Stewart Mfg. Co., W. E., 14th & Elm Sts., Flint, Mich.  
 Ulett Mfg. Co., 121 Riverside Ave., Medford, Mass.  
 Western Lumber Mfg. Co., Balfour Bldg., San Francisco, Cal.  
 Wick Lumber Co., Robert, 556 W. 52d St., New York, N. Y.

**SET CUSHIONS, Rubber—**

see Cushions, Rubber Set

**SET PROTECTORS—**

see Arresters, Lightning Indoor  
 also Arresters, Lightning Outdoor

**SETS, Combination Radio-Phonograph**

*Phonograph complete with Radio Receiving Apparatus; for Sets ready for Mounting in Phonograph—see Sets, Phonograph Adapting*

Arden — see Brunswick-Balke-Collender Co.  
 Autophone Mfg. Corp., 324 E. 23d St., New York, N. Y.  
 Brendonne Corp., 42 Main St., Orange, N. J.  
 Brunswick-Balke-Collender Co., 629 S. Wabash Ave., Chicago, Ill. "Arden"  
 Clemetsen Co., Anton, 4223 W. Lake St., Chicago, Ill.  
 Player-Tone Talking Machine Co., 632 Grant St., Pittsburgh, Pa.  
 Radio Master Corp. of America, 28th & Garfield Sts., Bay City, Mich.  
 Sonora Phonograph Co., 16 E. 40th St., New York, N. Y. "Sonoradio"  
 Sonoradio—see Sonora Phonograph Co.  
 Victor Talking Machine Co., Camden, N. J.

**SETS, Crystal**

*Small Radio Receiving Sets utilizing Crystal for Detectors*

Acme—see Pacific Screw Co.  
 Aerolla X—see Crain Bros. Radio & Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Argentine Laboratories, 116 N. Daly St., Los Angeles, Cal.  
 Audiola Radio Co., 430 S. Green St., Chicago, Ill. "Midget"  
 Audio-Tone Radio Co., 2831 Middletown Rd. (Bronx) New York, N. Y. "Krystalceptor"  
 Baby Grand—see Beaver Machine & Tool Co.

Beaver Machine & Tool Co., 625 Third St., Newark, N. J. "Baby Grand"  
 Berman Sporting Goods Co., 92 E. Seventh St., St. Paul, Minn.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y.  
 Brush Pottery Co., Zanesville, Ohio.  
 Burwell Co., Lee D., 1614 Harmon Pl., Minneapolis, Minn.  
 Carco—see Carter Mfg. Co.  
 Carter Mfg. Co., 1728 Coit Ave. (E. Cleveland), Cleveland, Ohio. "Carco"  
 Case Toy & Sales Co., 7250 Kelley St. (Homewood Sta.) Pittsburgh, Pa.  
 Cat's Meow—see Morvillo & Sons.  
 C. D. T.—see Tanner Co.  
 Champion Radio Products Co., 1400 E. 47th St., Chicago, Ill.  
 Cheever Co., William E., 1167 Broad St., Providence, R. I. "Wecco"  
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 Cherington Radio Products, Inc., 107 Madison St., Waukegan, Ill. "C-R-P"  
 Clearstone Radio Electrical Supply Co., 70 Audubon Ave., Providence, R. I.  
 Crain Bros. Radio & Mfg. Co., 2304 Telegraph Ave., Oakland, Cal. "Aerolla X"  
 C-R-P—see Cherington Radio Laboratories, Inc.  
 Durban Electric Co., 400 N. Laramie Ave., Chicago, Ill.  
 Dymac—see Electrical Products Mfg. Co.  
 Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
 Elf—see Westwyre Co.  
 Eureka—see Pacific Screw Co.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Flash Radio Corp., 127 Federal St., Boston, Mass.  
 Flivver—see Lightrite Co.  
 Ford Co., K. N., 1411 Alta Vista Blvd., Los Angeles, Cal. "Radiogrand"  
 Gold-Star—see Kodel Radio Corp.  
 Gordon Radio & Electric Mfg. Co., 1610 Fourth Ave., Seattle, Wash.  
 Gundlach-Manhattan Optical Co., 761 Clinton St., S., Rochester, N. Y.  
 Haller, W. B., 2100 Sarah St., S. S., Pittsburgh, Pa. "Hallerio"  
 Hallerio—see Haller, W. B.  
 Hamburg Bros., 450-52 Seventh Ave., Pittsburgh, Pa. "Pennsylvania"  
 Hargraves, C. E. & H. T., 1103 Warwick Ave., Lakewood, R. I. "Mel-o-Tone"  
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 Hearwell Electric Co., 53 Devonshire St., Boston, Mass.  
 Howe Auto Products Co., 120 N. Green St., Chicago, Ill.  
 Inman Specialty Store, 450 High St., Holyoke, Mass.  
 Key to the Air—see Stafford Radio Co.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio. "Quality" "Gold-Star"  
 Krystalceptor—see Audio-Tone Radio Co.  
 L. D. R.—see United Metal Stamping & Radio Co.  
 Lambert Radio Co., Leon, 133 N. Market St., Wichita, Kans.  
 Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal. "Lemco"  
 Lemco—see Lee Electric & Mfg. Co.  
 Lightrite Co., 167 Bloomfield Ave., Bloomfield, N. J. "Flivver"  
 Listen-In Co., 115 Federal St., Boston, Mass. "Talking Book"  
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 Little Freak—see Nu-Tone Radio Co.  
 Little Tattler—see Marinette Electric Corp.  
 Little Wonder—see Philmore Mfg. Co.  
 Marinette Electric Corp., Marinette, Wis. "Little Tattler"  
 Mel-O-Tone—see Hargraves, C. E. & H. T.  
 Midget—see Audiola Radio Co.  
 Miracle—see Uncle Al's Radio Shop.



**SETS, Crystal****Continued**

Mohawk Battery & Radio Co., 2115 Sunset Blvd., Los Angeles, Cal.  
 Monarch—see Rippner Bros. Mfg. Co.  
 Morvillo & Sons, G., 239 Federal St., Providence, R. I. "Cat's Meow"  
 Nিকেlette—see Novelty Radio Mfg. Co.  
 Novelty Radio Mfg. Co., 204 S. Fourth St., St. Louis, Mo., "Nিকেlette"  
 Nu-Tone Radio Co., Atlas Bldg., Salt Lake City, Utah "Little Freak"  
 Orator Radio Corp., 1717 Broadway, New York, N. Y.  
 Pacific Screw Co., 645 N. E. 53d St., Portland, Ore. "Acme" "Eureka"  
 Pal Radio Co., 1204 Summit Ave., Jersey City, N. J.  
 Pennsylvania—see Hamburg Bros.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Little Wonder"  
 Pyramid Products Co., 117 N. Dearborn St., Chicago, Ill.  
 Quality—see Kodel Radio Corp.  
 Radio Products Sales Co., 150 Fourth St., San Francisco, Cal. "Supreme"  
 Radiogem Corp., 66 W. Broadway, New York, N. Y.  
 Radiogrand—see Ford Co.  
 Radio—see Electric City Novelty & Mfg. Co.  
 Rippner Bros. Mfg. Co., 2125 Superior Ave., Cleveland, Ohio "Monarch"  
 Roll-O Radio Corp., 35 W. Pearl St., Cincinnati, Ohio  
 St. Marks Radio Co., 29 Third Ave., New York, N. Y.  
 Selectrol Radio Corp., 565 Broadway, New York, N. Y.  
 Stafford Radio Co., 29 Newberne St., Somerville, Mass. "Key to the Air"  
 Steinite Laboratories, Radio Bldg., Atchison, Kans.  
 Steinmetz Wireless Mfg. Co., 5968 Baum Blvd., Pittsburgh, Pa.  
 Supreme—see Radio Products Sales Co.  
 Talking Book—see Listen-In Co.  
 Tanner Co., C. D., 4154 S. Vermont Ave., Los Angeles, Cal. "C. D. T."  
 Thoma Radio Co., J. H., 1435 Beaver Ave., Pittsburgh, Pa.  
 Trescola—see Tri-City Radio Electric Supply Co.  
 Tri-City Radio Electric Supply Co., Davenport, Iowa "Trescola"  
 Trippe Reflector Corp., 128 W. Kinzie St., Chicago, Ill.  
 Uncle Al's Radio Shop, 2017 27th Ave., Oakland, Cal. "Miracle"  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio "L.D.R."  
 Van Valkenburg Co., L. D., Holyoke, Mass.  
 Waterbury Button Co., Waterbury, Conn.  
 Wecco—see Cheever Co.  
 Westwre Co., 283 Elm St., Westfield, Mass. "Elf"  
 X-L Radio Co., 1623 S. Vermont Ave., Los Angeles, Cal.

**SETS, Electrical Testing**

*Complete apparatus with Voltmeters and Milliammeters to test circuits of Receiving Sets or Vacuum Tube characteristics*

Airx Co., 797 Greenwich St., New York, N. Y.  
 Aurad Co., 2033 Park Ave., Detroit, Mich.  
 Gray Instrument Co., 64 W. Johnson St., (Germantown), Philadelphia, Pa.  
 Hobart Bros. Co., Canal Locks Sq., Troy, Ohio  
 Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.  
 Jewell Electrical Instrument Co., 1640 Walnut St., Chicago, Ill.  
 Leich Electric Co., Genoa, Ill. "Scout"  
 Millerradio—see National Radio Co.  
 National Radio Co., Forest Lake, Minn. "Millerradio"

R-K Mfg. Co., 1207 Stevenson St., San Francisco, Cal.  
 Radio Headquarters Laboratories, Broadway & Ankeny St., Portland, Ore.  
 Scout—see Leich Electric Co.

**SETS, Head—**

see **Head-Sets**

**SETS, Knockdown**

*Collection of instruments and equipment ready for Assembly into a Radio receiving set*

All-Amamax—see All-American Radio Corp.  
 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill. "All-Amamax" "Home Built"  
 Allen-Rogers, Inc., 118 E. 28th St., New York, N. Y.  
 Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
 American Interstate Radio Service, 183 Greenwich St., New York, N. Y.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "Nameless" "Counterphase"  
 Browning-Drake—see National Co.  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y. "Powertone"  
 Camfield Radio Mfg. Co., 829 Harrison St., Oakland, Cal. "Duodyne"  
 Counterphase—see Bremer-Tully Mfg. Co.  
 Duodyne—see Camfield Radio Mfg. Co.  
 Dymac Somerlog—see Electrical Products Mfg. Co.  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac Somerlog"  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla Circloid"  
 Elgin Radio Supply Co., 207 E. Chicago St., Elgin, Ill. "Super-Reinartz"  
 Elkay—see Langbein-Kaufman Radio Co.  
 Equmatic—see Karas Electric Co.  
 Erla Circloid—see Electrical Research Laboratories  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Gearhart-Schlueter Radio Corp., 713 Voorman Ave., Fresno, Cal. "Quadriformer"  
 General Mfg. Co., 6637 Cottage Grove Ave., Chicago, Ill. "Gen-Ral"  
 Gen-Ral—see General Mfg. Co.  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 Gordon Radio & Electric Mfg. Co., 1610 Fourth Ave., Seattle, Wash.  
 Grimes Radio Engineering Co., 432 Washington Ave., Long Island City, N. Y.  
 Hammarlund-Roberts, 1182 Broadway, New York, N. Y.  
 Harkness Radio Corp., Kenneth, 727 Frelinghuysen Ave., Newark, N. J.  
 Heath Radio & Electric Mfg. Co., 206 First St., Newark, N. J.  
 Home Built—see All-American Radio Corp.  
 Jamieson, H. E., Rivera, Cal.  
 Karas Electric Co., 4040 North Rockwell St., Chicago, Ill. "Equmatic"  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Log-O-Dyne"  
 Ku 51—see Mohawk Corp. of Illinois.  
 Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn. "Elkay"  
 Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal.  
 Lincoln Radio Corp., 151 W. 28th St., New York, N. Y.  
 Log-O-Dyne—see Kodel Radio Corp.  
 Lolos Explorer—see Radio Specialty Co.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill. "Ku 51"  
 Nameless—see Bremer-Tully Mfg. Co.  
 National Co., 110 Brookline St., Cambridge, Mass. "Browning-Drake"  
 Norden-Hauck, Inc., South St. & Delaware Ave., Philadelphia, Pa.

Pilot Electrical Mfg. Co., 323 Berry St., Brooklyn, N. Y. "Pilotone"  
 Pilotone—see Pilot Electrical Mfg. Co.  
 Powertone—see Bruno Radio Corp.  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.  
 Quadriformer—see Gearhart-Schlueter Radio Corp.  
 Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "REL"  
 Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Receptrad Multiflex"  
 Radio Specialty Co., 98 Park Pl., New York, N. Y. "Lolos Explorer"  
 Receptrad Multiflex—see Radio Receptor Co.  
 REL—see Radio Engineering Laboratories  
 Richardson Radio, Inc., Foster Ave. & Hulst St., Long Island City, N. Y.  
 Sangamo-Pressley—see Rossiter, Tyler & McDonell  
 Shamrock-Harkness—see Shamrock Mfg. Co.  
 Shamrock Mfg. Co., 196 Waverly Ave., Newark, N. J. "Shamrock-Harkness"  
 Super-Reinartz—see Elgin Radio Supply Co.  
 Sweeney Radio & Electrical Co., 207 Union Station Plaza, Kansas City, Mo.  
 Thompson Mfg. Co., R. E., 30 Church St., New York, N. Y.  
 United Scientific Laboratories, Inc., 80 Fourth Ave., New York, N. Y.  
 Un-X-Ld—see Forman & Co.  
 Victoreen—see Walker Co.  
 Walbert Mfg. Co., 925 Wrightwood Ave., Chicago, Ill.  
 Walker Co., George W., 6524 Carnegie Ave., Cleveland, Ohio "Victoreen"  
 WorkRite Mfg. Co., 1812 E. 30th St., Cleveland, Ohio.

**SETS, Phonograph Adapting**

*Ready for mounting in Phonographs so that Tone Chambers can be utilized with Loud Speaker Units*

Drexel Radio Mfg. Co., 2351 E. 75th St., Chicago, Ill.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Nestor Five"  
 Federal Telephone Mfg. Corp., Buffalo, N. Y.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Log-O-Dyne"  
 Log-O-Dyne—see Kodel Radio Corp.  
 Nestor Five—see Electrical Research Laboratories  
 New York Album & Card Co., 23 Lispenard St., New York, N. Y. "Nyaccoflex"  
 Nyaccoflex—see New York Album & Card Co.  
 O'Dea, James K., 115 Ellison St., Paterson, N. J.  
 Taylor Radio Co., 1218 Chestnut St., Philadelphia, Pa.

**SETS, Vacuum Tube**

*Completely assembled Radio Receiving Sets using Vacuum Tubes as Detectors and Amplifiers*

A B C—see Freeport Radio Corp.  
 Able Tool & Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"  
 A-C Dayton—see A-C Electrical Mfg. Co.  
 A-C Electrical Mfg. Co., Dayton, Ohio. "A-C Dayton"  
 Acme—see Wright-De Coster Radio, Inc.  
 Ad-a-unit—see Auto Indicator Co.  
 Admiralty—see Norden-Hauck, Inc.  
 Adroit Tool Co., 14 Front St., New York, N. Y. "Adrola"  
 Adrola—see Adroit Tool Co.  
 Advance Electric Co., 1260 W. Second St., Los Angeles, Cal. "Falck"  
 Advance Radio Research Laboratories, 254 W. 18th St., New York, N. Y.  
 Aeriphone—see National Radio Co.  
 Aero Radio Co., 155 Congress St., W., Detroit, Mich. "Aerodyne"

- Aerodyn Co., 1780 Broadway, New York, N. Y.
- Aerodyne—see Aero Radio Co.
- Aeroking—see Stewart-Warner Speedometer Corp.
- Aeromaster—see Stewart-Warner Speedometer Corp.
- Ainsworth Radio Co., 306 Main St., Cincinnati, Ohio "Torodyne"
- Air King—see 20th Century Radio Co.
- Air Master—see WorkRite Mfg. Co.
- Air-Ola Radio Co., 615 16th St., Huntington, W. Va., "Just-Rite"
- Air Pilot—see Spielman Electric Co.
- Airtone—see Radio Auto Distributors
- Air-Way Electric Appliance Corp., 618 Broadway, Toledo, Ohio "Green Seal"
- Airo-Master—see Orthodyne Radio Mfg. Co.
- Akradyne Radio Corp., 1834 Broadway New York, N. Y.
- Aladdin Mfg. Co., 602 E. 18th St., Muncie, Ind. "Aladyne"
- Aladyne—see Aladdin Mfg. Co.
- All-Amaz—see All-American Radio Corp.
- All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill. "All Amaz"
- Ambassador—see Chelsea Radio Co.
- Ambassador Sales Co., 108 Greenwich St., New York, N. Y.
- Amborola—see American Bosch Magneto Corp.
- Ambu—see American Bureau of Engineering
- Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.
- American Beauty—see American Radio Mfg. Co.
- American Bosch Magneto Corp., Springfield, Mass. "Amborola"
- American Bureau of Engineering, 2632 Prairie Ave., Chicago, Ill. "Ambu"
- American Interstate Radio Service, 183 Greenwich St., New York, N. Y. "Rambler Six"
- American Radio Mfg. Co., 1416 McGee St., Kansas City, Mo. "American Beauty"
- American Sales Co., Bryson Bldg., Los Angeles, Cal. "Indian"
- American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Republic"
- American Stationfinder Co., 409 S. Second St., Memphis, Tenn.
- American Wireless Corp., 33 W. 17th St., New York, N. Y.
- Amplex Instrument Laboratories, 88 W. Broadway, New York, N. Y. "Harmo-Sonic"
- Amrad Corp., Medford Hillside, Mass.
- Andrea, F. A. D., 1581 Jerome Ave., New York, N. Y. "Fada Neutrola"
- Angelus—see Radio Service Co.
- Antunez & O'Donnell, 632 N. Louise St., Glendale, Cal.
- Anylite Electric Co., Fort Wayne, Ind. "King Cole"
- Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill. "Microdyne"  
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- Appleby Radio Mfg. Co., 250 N. Juniper St., Philadelphia, Pa.
- Aragain—see Autometal Corp.
- Arborphone—see Precision Products Co.
- Arc—see Automatic Radio Mfg. Co.
- Arcony Radio Co., 173 Greenwich St., New York, N. Y.
- Argus Radio Corp., 257 W. 17th St., New York, N. Y. "Power-Argus"
- Arionola—see Dimmock-Bogart Radio, Inc.
- Aristocrat—see Buckeye Electric Co.
- Aristocrat—see Radiocompak Co.
- Arrow Radio Laboratories, 227 N. Kilbourne Ave., Chicago, Ill.
- Astral Radio Corp., 1812 Chestnut St., Philadelphia, Pa.
- Atec—see Able Tool & Engineering Co.
- Atwater Kent Mfg. Co., 4700 Wissahickon Ave., Philadelphia, Pa.
- Audiola Radio Co., 430 S. Green St., Chicago, Ill.
- Audio-tone Radio Co., 1430 Longfellow Ave., New York, N. Y.
- Aurophone—see Farmer's Wireless Telephone Co.
- Aurora—see Rose Radio Co.
- Aurora, Inc., Main St. & Broadway, Aurora, Ill.
- Auto Indicator Co., 209 Ottawa Ave., N. W., Grand Rapids, Mich. "Ad-a-unit"
- Automatic Radio Mfg. Co., 332 A St., Boston, Mass. "Arc" "Blue Bird"
- Autometal Corp., 311 Falls St., Niagara Falls, N. Y. "Aragain"
- Aztec—see California Radio Corp.
- Baird Radio & Mfg. Co., 161 Summer St., Boston, Mass.
- Baker-Smith Co., New Call Bldg., San Francisco, Cal. "Sylfan"
- Baltimore Hub-Wheel & Mfg. Co., 222 N. Gay St., Baltimore, Md. "Hubco Baby Grand"
- Banfer Products Corp., 7823 Carnegie Ave., Cleveland, Ohio "Supertone"
- Barbly's Radio Co., 309 Sixth Ave., New York, N. Y.  
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- Barty Radio Service, 68 Jamaica Ave., Astoria, N. Y.
- Bat-Ry-Les—see Batteryless Radio Corp.
- Batteryless Radio Corp., 116 W. 65th St., New York, N. Y. "No-Bat-Ry" "Bat-Ry-Les"  
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- Bauman Co., Warren J., Lock Haven, Pa. "Superlatone"
- Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y. "Trinity"
- Bear-cat—see Chelsea Radio Co.
- Bear Cat—see Wells Radio Mfg. Co.
- Bechaud Radio Laboratories, 457 W. 11th St., Fond du Lac, Wis. "Big Five"
- Bee-Zee Products Co., 511 Chapel St., New Haven, Conn.
- Ben Radio Corp., 74 E. Olive Blvd., Freeport, N. Y. "Petite"
- Berstan Radio Products Co., 329 Dwight St., Springfield, Mass.
- Bestone—see Hyman & Co.
- Biddinger, Chas. A., 17 Odell Ave., Yonkers, N. Y.
- Big Five—see Bechaud Radio Laboratories
- Blackburn Mfg. Co., 330 Encino (Alamo Heights), San Antonio, Tex "Crimp-O-Dyne"
- Blair Radio Laboratories, 368 Sixth Ave., New York, N. Y.
- Blue Bird—see Automatic Radio Mfg. Co.
- Blue Ribbon—see Chicago Nipple Mfg. Co.
- Bosserman Radio Laboratories, 766 Post St., San Francisco, Cal.
- Boston Radio Mfg. Co., 682 Beacon St., Boston, Mass.
- Bosworth Electric Mfg. Co., 3750 Montgomery Rd., Cincinnati, Ohio
- Branson, Chas. A., 815 Main St., Buffalo, N. Y. "Hetrola"
- Braun Co., W. C., 32 S. Clinton St., Chicago, Ill. "Monroe"
- Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.
- Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "Counterphase"
- Brooklyn Radio Laboratory, 1337 55th St., Brooklyn, N. Y.
- Brown Radio Mfg. Co., 777 Wyoming Ave., Kingston, Pa. "Thorobred"
- Browning-Drake Corp., 353 Washington St., Brighton, Mass.
- Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y. "Powertone"
- Buckeye Electric Co., S. Silver Leaf St., Gladwin, Mich. "Aristocrat"
- Buckingham Radio Corp., 25 E. Austin Ave., Chicago, Ill.
- Buckwalter Radio Corp., 2632 Prairie Ave., Chicago, Ill. "Supertone"
- Burdnept Wireless Corp. of America, 52 Warren St., New York, N. Y. "Ethovox"
- Button, Paul H., 6915 McMillan St., Detroit, Mich. "Duodyne"
- B. W. Battery & Radio Corp., 324 Ninth Ave., New York, N. Y.
- Cadillac Mfg. Co., 1034 Longwood Ave., N. Y.
- Caladyne Radio Co., 2190 Mission St., San Francisco, Cal.
- California Radio Corp., 120 Finger Ave., Redwood City, Cal. "Aztec"
- Californian Radio Co., Pomona, Cal. "Consolette"
- Cameo—see General American Radio Mfg. Corp.
- Cardinola Radio Corp., 339 N. Capitol Ave., Indianapolis, Ind.
- Carol-Dyne—see Southeastern Radio Corp.
- Carillon Radio Co., Essex, N. Y.
- Cascade—see Nunn-Landon Co.
- Case—see Indiana Mfg. & Electric Co.
- Case Toy & Sales Co., 7250 Kelley St., (Homewood Sta.) Pittsburgh, Pa.
- Celeste—see Keller, Norman B.
- Celeste—see Lakeside Supply Co.
- Challenger—see Tilman Radio Corp.
- Champion Radio Co., 1270 Ontario St., Lakewood, Ohio.
- Champion Radio Products Co., 1400 E. 47th St., Chicago, Ill.
- Chatham Radio Corp., Chatham, N. J. "Hy-Pex"
- Chelsea Radio Co., 179 Spruce St., Chelsea, Mass. "Regenodyne" "Bear Cat" "Ambassador"  
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- Chicago Nipple Mfg. Co., 1966 Southport Ave., Chicago, Ill. "Blue Ribbon"
- Clapp-Eastham Co., American Chicle Bldg., Long Is'and City, N. Y.
- Claradyne—see Crouch-Wilson & Co.
- Clearbrook—see Heiges Brothers.
- Clearfield—see Sherman Radio Mfg. Corp.
- Cleartone Radio Co., 2427 Gilbert Ave., Cincinnati, Ohio. "Goldcrest Clear-O-Dyne"
- Clearview—see Kaess Mfg. Corp.
- Colonial Radio Corp., East Ave. & Tenth St., Long Island City, N. Y.
- Columbia Print (Radio Division) 145 W. 45th St., New York, N. Y.
- Concerdyne—see Jones Electric & Radio Mfg. Co.
- Concertola Radio Shop, 15 Tompkins St., New York, N. Y.
- Consolette—see Californian Radio Corp.
- Consolidated Battery Co., 1600 Walnut St., Philadelphia, Pa.
- Consomello—see Mazda Radio Mfg. Co.
- Continental Radio & Mfg. Co., 211 N. Third St., W., Newton, Iowa.
- Counterphase—see Bremer-Tully Mfg. Co.
- Crescent Radio Mfg. Co., 1026 Second Ave., S., Minneapolis, Minn. "Crescentyne"
- Crescentyne—see Crescent Radio Mfg. Co.
- Crimp-O-Dyne—see Blackburn Mfg. Co.
- Crosley Radio Corp., 732 Sassafras St., Cincinnati, Ohio
- Crouch-Wilson & Co., 28 Broad St., Oneonta, N. Y. "Claradyne"
- Curkold Corp., 100 Charles St., New York, N. Y.
- Davis Radio Laboratory, Fenton, Mich.
- Davis Mfg. Co., Richard T., 5252 Broadway, Chicago, Ill. "Vogue"
- Daycraft—see Day-Fan Electric Co.
- Day-Fan Electric Co., Dayton, Ohio "Daycraft" "Dayroyal"
- Dayroyal—see Day-Fan Electric Co.
- Defiance Radio & Electric Co., 1021 S. 12th St., Tacoma, Wash. "Diamondola"
- De Forest Radio Co., 124 Sherman Ave., Jersey City, N. J. "Radiophone"
- Detrickson Radio Co., 121 S. Third St., St. Joseph, Mo.
- Delano—see Modernola Co.
- DeWitt-LaFrance Co., Cambridge, Mass. "Superadio"
- Dexter Metal Mfg. Co., 10 S. 18th St., Philadelphia, Pa.
- Diamadyne—see Norbert Radio Service' Bureau



**SETS, Vacuum Tube—****Continued**

- Diamond T Radio Manufacturers**, 526 N. Niles St., South Bend, Ind. Cataloged on page.....93
- Diamonola**—see Defiance Radio & Electric Co.
- Dictograph Products Corp.**, 220 W. 42d St., New York, N. Y.
- Dimmock-Bogart Radio, Inc.**, 137th St. & Third Ave., New York, N. Y. "Arionola"
- Distantone Radios, Inc.**, Lynbrook, N. Y. Cataloged on page.....94
- Doleres**—see Goerdes Co.
- DominAlre**—see MacLaren Mfg. Co.
- Dotson-Hiebert Co.**, 4345 France Ave., Minneapolis, Minn.
- Drexel Radio Mfg. Co.**, 2351 E. 75th St., Chicago, Ill. "Drexola"
- Drexola**—see Drexel Radio Mfg. Co.
- Duodyne**—see Button, Paul H.
- Duo Dyne**—see Globe Electric Co.
- Dymac**—see Electrical Products Mfg. Co.
- Eagle Radio Co.**, Boyden Pl., Newark, N. J. "Eaglet"
- Eaglet**—see Eagle Radio Co.
- Eaton-Edwards Radio Co.**, Sag Harbor, N. Y. "Melodyne"
- Echo**—see Vaugh Electric Mfg. Co.
- Eckhardt Corp.**, 213 S. Broad St., Philadelphia, Pa. "Eckharmonic"
- Eckardmonic**—see Eckhardt Corp.
- Eisemann Magneto Corp.**, 165 Broadway, New York, N. Y.
- Electric Machine Corp.**, 529 N. Capitol Ave., Indianapolis, Ind. "Elmco"
- Electrical Products Mfg. Co.**, 69 Sprague St., Providence, R. I. "Dymac"
- Electrical Research & Mfg. Co.**, Waterloo, Iowa "Superiodyne" "Superiorflex"
- Electrical Research Laboratories**, 2500 Cottage Grove Ave., Chicago, Ill. "Eria Circloid Five"
- Electrophone Corp.**, 109 N. Wabash Ave., Chicago, Ill. "Hyatt"
- Elgin Radio Supply Co.**, 207 E. Chicago St., Elgin, Ill. "Super-Reinartz"
- Elite Radio Stores**, 55 Hillman St., New Bedford, Mass. "Tzizan"
- Elkay**—see Langbein-Kaufman Radio Co.
- Elmco**—see Electric Machine Corp.
- Emerson Radio & Phonograph Corp.**, 309 Sixth Ave., New York, N. Y.
- Empire Electric Mfg. Co.**, 25 Juneau Ave., Milwaukee, Wis.
- E & N Products Co.**, 1744 S. Ogden Ave., Chicago, Ill. "Sovereign"
- Ensemble**—see Premier Electric Co.
- Eria Circloid Five**—see Electrical Research Laboratories.
- Essex Mfg. Co.**, 40 Lawrence St., Newark, N. J. "Knight"
- "Ethovox"**—see Burndept Wireless Corp. of America.
- Eureka Outlet Corp.**, 1038 Longwood Ave., New York, N. Y. (Sole Distributors for Gold Medal Radio Corp., New York, N. Y.)
- Fada Neutrola**—see Andrea, F. A. D.
- Fairview Electric Shop**, 35 Fairview Ave., Binghamton, N. Y.
- Falck**—see Advance Electric Co.
- Famous 5**—see Norbert Radio Service Bureau
- Paraday Corp.**, 746 Chapel St., New Haven, Conn.
- Farmers' Wireless Telephone Co.**, 157 Chambers St., New York, N. Y. "Aurophone"
- Federal-Brandes, Inc.**, Woolworth Bldg., New York, N. Y. "Kolster"
- Federal Radio Corp.**, 1738 Elmwood Ave., Buffalo, N. Y. "Ortho-Sonic"
- Ferguson, Inc.**, J. B., 225 W. 57th St., New York, N. Y.
- Fine-Arts**—see Plaza Music Co.
- Flex-O-Dyne Co.**, 1674 Broadway, New York, N. Y.
- Forbes**—see Hearwell Electric Co.
- Freed-Eisemann Radio Corp.**, Liberty Ave. & Junius St., Brooklyn, N. Y.
- Freeport Radio Corp.**, 111 W. Stephenson St., Freeport, Ill. "ABC"
- Freshman Co.**, Chas., 240 W. 40th St., New York, N. Y.
- Gardenhour, A. J.**, Arcade Bldg., Waynesboro, Pa. "Gar-Shear-Dyne"
- Garod Corp.**, Mill & Main Sts., Belleville, N. J.
- Gar-Shear-Dyne**—see Gardenhour, A. J.
- General American Radio Mfg. Corp.**, 242 W. 55th St., New York, N. Y. "Cameo" "Jewel" "Vocelste"
- Gilfillan Bros.**, 1815 W. 16th St., Los Angeles, Cal.
- Globe Electric Co.**, 14 Keefe Ave., Milwaukee, Wis. "Duo Dyne"
- Goerdes Co.**, Fred M., 81 Mt. Prospect Ave., Newark, N. J. "Doleres"
- Gold Medal Radio Corp.**—see Eureka Outlet Corp.
- Gold Star**—see Kodel Radio Corp.
- Goldcrest Clear-O-Dyne**—see Cleartone Radio Co.
- Golden-Leutz, Inc.**, Sixth & Washington Aves., Long Island City, N. Y. "Pilo-6" "Pliodyne" "Transoceanic"
- Gordon Radio & Electric Mfg. Co.**, 1610 Fourth Ave., Seattle, Wash.
- Gormac Electric Co.**, 311 W. 59th St., New York, N. Y.
- Gossard Radio & Wire Co.**, Belvidere, Ill.
- Goulding Mfg. Co.**, 405 Fourth St., Milwaukee, Wis.
- Grant Co.**, H. R., 13 Westover Ave., Caldwell, N. J. "Rita De Luxe"
- Grebe & Co.**, A. H., 109 W. 57th St., New York, N. Y. "Synchrophase"
- Green Seal**—see Air-Way Electric Appliance Corp.
- Grimes Inc.**, David, 151 Bay St., Jersey City, N. J. "Viking" Cataloged on page.....95
- Grossman Mfg. Co.**, 5 S. Main St., Carrollton, Mo.
- Guthrie Co.**, Cleveland St., Grafton, Ohio. "Nightingale"
- Halldorson Co.**, 4745 N. Western Ave., Chicago, Ill.
- Hallock & Watson Radio Corp.**, 192 Park St., Portland, Ore. "Halowat"
- Halowat**—see Hallock & Watson Radio Corp.
- Hanscom Radio Devices**, Woonsocket, R. I. "Superunit" Cataloged on page.....68
- Harding Mfg. Corp.**, 1335 Main St., Buffalo, N. Y.
- Harmon & Sons Co.**, H. W., 414 Poplar St., Grove City, Pa. "Harmonson"
- Harmonic**—see Jones Radio Co.
- Harmonson**—see Harmon & Sons Co.
- Harmo-Sonic**—see Amplex Instrument Laboratories
- Hartman Electrical Mfg. Co.**, Mansfield, Ohio Cataloged on page.....96
- Heart of America Radio Co.**, 3705 St. John St., Kansas City, Mo. "Serenader"
- Hearwell Electric Co.**, 53 Devonshire St., Boston, Mass. "Forbes"
- Helges Brothers**, Sharon, Pa. "Clearbrook"
- Henderson Bros.**, 93 Federal St., Boston, Mass.
- Henninger Corp.**, A. F., 4509 Ravenswood Ave., Chicago, Ill.
- Herald Radio Co.**, 366 Cathedral Parkway, New York, N. Y.
- Herbert, Inc.**, Harold, Paynter & Ely Aves., Long Island City, N. Y.
- Hetrola**—see Branston, Chas. A.
- Hexadyne**—see Hunt Co.
- Hilltop Six**—see Hitchcock-Hill Co.
- Hitchcock-Hill Co.**, 38 W. Kinzie St., Chicago, Ill. "Hilltop Six"
- Holland Radio Corp.**, 316 Knoxville Ave., Peoria, Ill. "Revelation IV"
- Hollywood**—see Turner Radio Corp.
- Holmes & Co.**, F. A., Waterloo, Iowa.
- Howard Radio Co.**, 469 E. Ohio St., Chicago, Ill.
- Hubco Baby Grand**—see Baltimore Hub-Wheel & Mfg. Co.
- Hunt Co.**, W. D., 4961 Sunset Blvd., Los Angeles, Cal. "Hexadyne"
- Hyatt**—see Electrophone Corp.
- Hyman & Co.**, Henry, 220 W. 14th St., New York, N. Y. "Bestone"
- Hy-Pex**—see Chatham Radio Corp.
- I-C**—see Interchange Co.
- Illinois Radio Engineers**, Mt. Vernon, Ill.
- Imperial Electrical Co.**, 201 S. Columbia St., Union City, Ind.
- Imperial Radio Corp.**, 21 Ottawa Ave., N. W., Grand Rapids, Mich. Cataloged on page.....97
- Incandescent Supply Co.**, 468 W. Broadway, New York, N. Y. "Newlands"
- Indian**—see American Sales Co.
- Indiana Mfg. & Electric Co.**, 530 Case Blk., Marion, Ind. "Case"
- Industrial Radio Service**, Newton & Rust Aves., Saginaw, Mich. "Ultra-Marvel"
- Interchange Co.**, 24 Stone St., New York, N. Y. "I-C"
- International Babydyne**—see Kenmar Radio Corp.
- International Radio Corp.**, 145 Pacific Electric Bldg., Los Angeles, Cal. "Rotorfor"
- Intradyne**—see National Radio Co.
- Ion Radio Corp.**, 5 Hudson St., New York, N. Y.
- Irving Radio Corp.**, Skidmore & Culbertson Sts., Columbus, Ohio
- Isler Radio Co.**, Ray, 1021 Park Ave., Rochester, N. Y.
- Isifarad**—see Walbert Mfg. Co.
- Jewel**—see General American Radio Mfg. Corp.
- Jones Electric & Radio Mfg. Co.**, 419 N. Eutaw St., Baltimore, Md. "Concerdyne"
- Jones-Motrola Sales Co.**, 370 Gerard Ave., New York, N. Y.
- Jones Radio Co.**, 384 Monroe St., Brooklyn, N. Y. "Harmonic"
- Just-Rite**—see Air-Ola Radio Co.
- Kaess Mfg. Corp.**, Amityville, N. Y. "Clearview"
- Keller, Norman B.**, 73 N. Fair Oaks, Pasadena, Cal. "Celeste"
- Kellogg Switchboard & Supply Co.**, Chicago, Ill. "Wave-Master" Cataloged on pages.....98 and 99
- Kemper Radio Laboratory**, 1236 Santee St., Los Angeles, Cal.
- Kenmar Radio Corp.**, Sullivan Bldg., Danvers, Mass. "International Babydyne"
- Key to the Air**—see Stafford Radio Co.
- Keystone Radio Co.**, College Ave. & Craig St., Greenville, Pa.
- Keystone Radio Laboratories, Inc.**, 154 Whiting St., Chicago, Ill.
- King**—see WorkRite Mfg. Co.
- King-Buffalo, Inc.**, Buffalo, N. Y. "King-Hinners"
- King Cole**—see Anylite Electric Co.
- King-Hinners**—see King-Buffalo, Inc.
- King's Radio Sales Co.**, 1166 N. Kingshighway, St. Louis, Mo.
- Kismet**—see Radio Telephone & Telegraph Corp.
- Knight**—see Essex Mfg. Co.
- Kodel Radio Corp.**, 507 E. Pearl St., Cincinnati, Ohio. "Gold-Star" "Logodyne"
- Kolster**—see Federal-Brandes, Inc.
- Krantz & Sell Co.**, Honesdale, Pa.
- Lafayette**—see Mississippi Valley Radio Co.
- Lakeside Supply Co.**, 73 W. Van Buren St., Chicago, Ill. "Celiste"
- Lanco**—see Langhorne & Co.
- Langbein-Kaufman Radio Co.**, 511 Chapel St., New Haven, Conn. "Elkay" Cataloged on page.....104
- Langhorne & Co.**, 11 N. Sixth St., Portland, Ore. "Lanco"
- LanSing**—see United Engine Co.
- Larkin Co.**, Buffalo, N. Y.
- Lasco**—see Los Angeles Sales Co.



Laurel Motors Corp., (Dept. V. R.), Anderson, Ind. "Sinclair"  
 Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal. "Lemco"  
 Leich Electric Co., Genoa, Ill.  
 Lemco—see Lee Electric & Mfg. Co.  
 Le Mor Radio, Inc., Asbury Park, N. J.  
 Lester's Radio Shop, 221 W. Second St., Los Angeles, Cal.  
 Levy & Co., Sol. J., 2185 Grand Concourse, New York, N. Y. "Solevy"  
 Little Giant—see Q. T. Radio Products Co.  
 Loe & Ostrum, Blanchardville, Wis. "Oslo"  
 Logodyne—see Kodel Radio Co.  
 Lone Wolf Radio Corp., 4725 Clifton Ave., Chicago, Ill.  
 Los Angeles Sales Co., 1211 W. Sixth St., Los Angeles, Cal. "Lasco"  
 Lyon Radio Co., 1345 W. 21st St., Chicago, Ill. "Orthonola"  
 Lytton, Inc., 14 E. Jackson Blvd., Chicago, Ill. "Wav-O-Dyne"  
 MacLaren Mfg. Co., 26 Park Pl., New York, N. Y. "DominAire"  
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 Magnatone — see Rauschenberg Radio Shop.  
 Magnavox Co., 2725 E. 14th St., Oakland, Cal.  
 Malard Radio Co., 457 N. Kingshighway, St. Louis, Mo.  
 Malone-Lemmon Products, Inc., 130 Waynewood Pl., Plainfield, N. J. "Raycraft"  
 Manhattan Radio & Merchandising Co., 220 W. 42d St., New York, N. Y.  
 Marathon Radio Corp., 133 First St., San Francisco, Cal.  
 Marti Electric Radio Co., 22 Central Ave., West Orange, N. J.  
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 Marlo-dyne—see Marlow Co.  
 Marlow Co., Ernest, 613 Bangs Ave., Asbury Park, N. J. "Marlo-dyne"  
 Marti Electric Radio Co., 22 Central Ave., West Orange, N. J.  
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 Martinola—see Vibroplex Co.  
 Masterphone Co. (Radio Division), Iowa City, Iowa.  
 Maxum Radio & Electric Co., 54th St. & Woodland Ave., Philadelphia, Pa.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio "Consomello"  
 McCullough—see Pittsburgh Radio Supply Co.  
 Melodee—see Norbert Radio Service Bureau  
 Melodee—see Roth Radio, Inc.  
 Melodian Laboratories, Independence, Mo. "Melody King"  
 Melody King—see Melodian Laboratories  
 Melodyne—see Eaton-Edwards Radio Co.  
 Melodyne Radio Co., 116 W. 65th St., New York, N. Y.  
 Mell-O-Tone—see Tymeson Radio Co.  
 Mercury Electric Corp., 2032 Grand Ave., New York, N. Y.  
 Meteor Phonograph Co., Piqua, Ohio  
 Metro Electric Co., 2163-71 N. California Ave., Chicago, Ill. "Metrodyne"  
 Metrodyne—see Metro Electric Co.  
 Metropolitan Engineering Service Co., 43 Tremont St., Boston, Mass. "Veriphone"  
 Microdyne—see Apex Electric Mfg. Co.  
 Midwest Radio Corp., 410 E. Eighth St., Cincinnati, Ohio. "Miraco"  
 Minerva Radio Co., 827 Irving Park Blvd., Chicago, Ill.  
 Minuet—see Thompson Mfg. Co.  
 Miraco—see Midwest Radio Corp.  
 Mirro-dyne—see Radio Service Parlors  
 Mississippi Valley Radio Co., 203 Pine St., St. Louis, Mo. "Lafayette"  
 Modernola Co., Johnstown, Pa. "Delano"  
 Modyne—see Morrdyne Radio Mfg. Co.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Monarch—see Morris Register Co.  
 Monroe—see Braun Co.

Monroe Radio Mfg. Co., 16 S. Monroe St., Monroe, Mich. "Monrona"  
 Monrona—see Monroe Radio Mfg. Co.  
 Montrose-Hast Radio Laboratories, Broadway & 42d St., New York, N. Y. "Naturelle"  
 Morrdyne Radio Mfg. Co., 5023 Fourth Ave., Brooklyn, N. Y. "Modyne"  
 Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa "Monarch"  
 Morton, George, Stockton, Cal.  
 Mu-Rad Radio Corp., 800 Fifth Ave., Asbury Park, N. J. "Transcontinental"  
 Murdock Co., Wm. J., 347 Washington Ave., Chelsea, Mass.  
 Mutual Radio Co., Francis Rd., Wellesley, Mass.  
 Mysto—see Berstan Radio Products Co.  
 Nafr Radio Corp., 110 Locust St., St. Louis, Mo.  
 Narragansett Radio Corp., 133 Dyer St., Providence, R. I.  
 National Radio Co., Forest Lake, Minn. "Aeriphone" "Intradyne"  
 Naturelle—see Montrose-Hast Radio Laboratories  
 Naylor Radio Corp., 161 Chambers St., New York, N. Y. "Sterling-Five"  
 Nazeley Co., J., 1824 Park Ave., Wee-kawken, N. J.  
 Neo-Dyne—see Steinway Radio Corp.  
 Neutrowound Radio Mfg. Co., Homewood, Ill.  
 New York Album & Card Co., 23 Lispenard St., New York, N. Y. "Nyacco Port"  
 Newlands—see Incandescent Supply Co.  
 Newport Radio Corp., 250 W. 54th St., New York, N. Y.  
 Niagara Furniture Co., Middleport, N. Y.  
 Nightingale—see Guthrie Co.  
 No-Bat-Ry—see Batteryless Radio Corp.  
 No-Dial—see Ohio Stamping & Engineering Co.  
 Nofr Radio Corp., 110 Locust St., St. Louis, Mo.  
 Norbert Radio Service Bureau, 152 W. 42d St., New York, N. Y. "Diamadyne"  
 Norco—see Northwestern Radio Mfg. Co.  
 Norco, Jr.—see Northwestern Radio Mfg. Co.  
 Norco, Sr.—see Northwestern Radio Mfg. Co.  
 Norden-Hauck, Inc., South St. & Delaware Ave., Philadelphia, Pa. "Admiralty"  
 Northland Radio Co., Produce Exchange Bldg., Minneapolis, Minn.  
 Northwestern Radio Mfg. Co., 1556 E. Taylor St., Portland, Ore. "Norco" "Norco, Jr." "Norco, Sr."  
 Novadyne Radio Corp., 62 W. State St., Battle Creek, Mich.  
 Nunn-Landon Co., 1115 Fourth St., Milwaukee, Wis. "Cascade"  
 Nu-Tone Radio Co., Atlas Bldg., Salt Lake City, Utah  
 Nyacco Port—see New York Album & Card Co.  
 Oard Radio Laboratories, Stockton, Cal.  
 Obermiller, M. W., 230 Union Ave., Lynbrook, N. Y.  
 Octo—see Streit Radio Corp.  
 Ohio Stamping & Engineering Co., Dayton, Ohio "No-Dial"  
 Okay Radio Corp., 22 1/2 W. National Ave., Brazil, Ind.  
 O'Neill, Wm., 123 Summit St., Downers Grove, Ill.  
 Operadio Corp., 8 S. Dearborn St., Chicago, Ill.  
 Orator Radio Corp., 1717 Broadway, New York, N. Y.  
 Oriole—see W-K Electric Co.  
 Orthodyne Radio Mfg. Co., 24 Wooster St., New York, N. Y. "Airo-Master"  
 Orthonola—see Lyon Radio Co.  
 Ortho-Sonic—see Federal Radio Corp.  
 Oslo—see Loe & Ostrum  
 Overtone—see Pfanstiehl Radio Co.

Ozarka, Inc., 120 W. Austin Ave., Chicago, Ill.  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Patterson Radio Corp., 229 S. Los Angeles St., Los Angeles, Cal. "Supreme"  
 Pearl Radio Corp., 1033 Race St., Philadelphia, Pa.  
 Penn C—see Pennsylvania Radio Mfg. Co.  
 Penn Radio Co., Beavertown, Pa. "Penrad"  
 Pennell Radio Co., 804 S. Vermont Ave., Los Angeles, Cal.  
 Pennsylvania Radio Mfg. Co., 507 Florence Ave., New Castle, Pa. "Penn C"  
 Penrad—see Penn Radio Co.  
 Perasco—see Perry Radio Supply Co.  
 Perasco Kewpie—see Perry Radio Supply Co.  
 Perasco Petit Grande—see Perry Radio Supply Co.  
 Perlesz Radio Mfg. Corp., 560 W. Congress St., Chicago, Ill.  
 Perry Radio Supply Co., 218 Washington Blvd., River Forest, Ill. "Perasco" "Perasco Kewpie" "Perasco Petit Grande"  
 Petite—see Ben Radio Corp.  
 Pfanstiehl Radio Co., 11 S. La Salle St., Chicago, Ill. "Overtone"  
 Cataloged on page.....106  
 Pierce Airo—see United Scientific Laboratories, Inc.  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Pine-Tree Radio Corp., 12 Bergen St., Brooklyn, N. Y.  
 Pioneer Radio Corp., Plano, Ill.  
 Pitchford Radio Co., Gooding, Idaho  
 Pittsburgh Radio Supply House, 963 Liberty Ave., Pittsburgh, Pa. "McCullough"  
 Plaza Music Co., 10 W. 20th St., New York, N. Y. "Fine-Arts"  
 Plio-6—see Golden-Leutz, Inc.  
 Pliodyne—see Golden-Leutz, Inc.  
 Plymouth Radio & Phonograph Co., Plymouth, Wis.  
 Poly—see Royal Radio Corp.  
 Porter, Frank R., 1320 Vermont Ave., N. W., Washington, D. C. "Superior"  
 Ports Mfg. Co., 3305 E. Belmont Ave., Fresno, Cal. "Prmco"  
 Power-Argus—see Argus Radio Corp.  
 Powerola Radio Corp., 49th St. & 11th Ave., New York, N. Y.  
 Powertone—see Bruno Radio Corp.  
 Powrad, Inc., 486 Johnson Ave., Brooklyn, N. Y.  
 Precision Products Co., 321 S. Main St., Ann-Arbor, Mich. "Arborphone"  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Ensemble"  
 Premier Radio Corp., Defiance, Ohio. "Rectaflex"  
 Pries Radio Corp., 693 Broadway, New York, N. Y.  
 Prmco—see Ports Mfg. Co.  
 Q. T. Radio Products Co., 65 William St., Belleville, N. J. "Little Giant"  
 Queen Quality Radio Corp., Evansville, Ind.  
 Radio Auto Distributors, 920 D St., N. W., Washington, D. C. "Airtone"  
 Radio Center, 329 W. Baltimore St., Baltimore, Md. "Reiner"  
 Radio Corp. of America, 233 Broadway, New York, N. Y. "Radiola"  
 Cataloged on pages 100, 101, 102 and 103  
 Radio Craft Co., 528 Geary St., San Francisco, Cal.  
 Radio Frequency Laboratories, Inc., Fanny Bridge Rd., Boonton, N. J. "R F L"  
 Radio-Master Corp. of America, 28th & Garfield Sts., Bay City, Mich., "Simpliform"  
 Radio Pal—see Stanrad Corp.  
 Radio Products Corp., 3816 N. 28th St., Birmingham, Ala. "Superflex"  
 Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Receptrad Multiflex"

## SETS, Vacuum Tube Continued

- Radio Research Laboratories, 1600 N. Kansas St., Hastings, Neb. "Ultra-dyne"
- Radio Service Co., 337 S. Western Ave., Los Angeles, Cal. "Angelus"
- Radio Service Parlors, Rex Bldg., Mt. Vernon, Ill. "Mirro-dyne"
- Radio Service Station, 25 S. Fourth Ave., Mt. Vernon, N. Y.
- Radio Telephone & Telegraph Corp., 130 W. 42d St., New York, N. Y. "Kismet"
- Radiocompak Co., A. P. Trust Bldg., Asbury Park, N. J. "Aristocrat"
- Radiodyne—see Western Coil & Electrical Co.
- Radiograph Mfg. Corp., 1342 Polk St., San Francisco, Cal.
- Radiola—see Radio Corp. of America
- Radiohone—see De Forest Radio Co.
- Radiotel Mfg. Co., Bayshore, N. Y.
- Radisto Sales Co., Fulton Bldg., Pittsburgh, Pa.
- Rambler Six—see American Interstate Radio Service.
- Randle Radio Co., 1725 Powers St., Cumminsville, Cincinnati, Ohio.
- Ranger Coil Co., West Davenport, N. Y.
- Rauschenberg Radio Shop, 39 N. Mercer St., Greenville, Pa. "Magnatone"
- Ra-Vox Co., Casey, Ill.
- Raycraft—see Malone-Lemmon Products, Inc.
- Recepton Radio Corp., S. W. Cor. 17th & Woods Sts., Philadelphia, Pa.
- Receptrad Multiflex—see Radio Receptor Co.
- Rectaflex—see Premier Radio Corp.
- Regenodyne—see Chelsea Radio Co.
- Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola Isodyne"
- Reiner—see Radio Center
- Renwick, Frederick W., 511 Market St., Camden, N. J.
- Republic—see American Specialty Co.
- Revelation IV—see Holland Radio Corp.
- R F L—see Radio Frequency Laboratories, Inc.
- Rich Mfg. Co., George H., 18th & Dauphin Sts., Philadelphia, Pa.
- Rita De Luxe—see Grant Co.
- R-K Mfg. Co., 1207 Stevenson St., San Francisco, Cal.
- Robbins Radio Co., 333 W. Houston St., New York, N. Y.
- Rodgers Radio Corp., 3737 Belmont Ave., Chicago, Ill.
- Rose Radio Co., 245 Barrett St., Brooklyn, N. Y. "Aurora"
- Roth Radio Inc., 16 Hudson St., New York, N. Y. "Melodee" ..... 105  
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- Rotofor—see International Radio Corp.
- Royal Radio Corp., 19 Calendar St., Providence, R. I. "Poly"
- Scout—see Sleeper Radio & Mfg. Corp.
- Selectodyne Radio Co., 325 W. State St., Rockford, Ill.
- Seminole Co., 427 E. 16th St., New York, N. Y.
- Serenader—see Heart of America Radio Co.
- Serenader—see Sleeper Radio & Mfg. Corp.
- Sethman Electric & Mfg. Co., 42d Ave. & Josephine St., Denver, Col.
- Shamrock Mfg. Co., 196 Waverly Pl., Newark, N. J.
- Sheldon Radio Co., 943 Wall St., Los Angeles, Cal.
- Sherman Radio Mfg. Corp., 114 E. 13th St., New York, N. Y. "Clearfield"
- Shirley's Radio Electric Shop, Carmen, Okla.
- Showers Brothers Co. (Radio Division), 914 S. Michigan Ave., Bloomington, Ind.
- Simple Simon—see Tri-City Radio Electric Supply Co.
- Simpleform—see Radio-Master Corp. of America.
- Simplex Electrical Instrument Co., 2 Knickerbocker Ave., Mamaroneck, N. Y.
- Simplex Radio Co., Rector & Main Sts., Philadelphia, Pa.
- Simplex Radio Co., Monroe & King Sts., Sandusky, Ohio
- Simpli-Dyne Electric Co., Bradford, Ill.
- Sinclair—see Laurel Motors Corp.
- Singer Co., E., 40 Hudson St., New York, N. Y.
- Slagle Radio Co., 127 Wallace St., Fort Wayne, Ind.
- Sleeper Radio & Mfg. Corp., 430 Washington Ave., Long Island City, N. Y. "Scout" "Serenader"
- Solar Electric Co., 25 Juneau Ave., Milwaukee, Wis.
- Solevy—see Levy & Co.
- Songbird, The, 137 Duane St., New York, N. Y.
- Sonora Phonograph Co., 16 E. 40th St., New York, N. Y.
- Southeastern Radio Corp., Winston-Salem, N. C. "Carol-Dyne"
- Sovereign—see E & N Products Co.
- Sparton—see Sparks-Withington Co.
- Sparks-Withington Co., Jackson, Mich. "Sparton"
- Spielman Electric Co., 311 W. 59th St., New York, N. Y. "Air Pilot"
- Splitdorf Electrical Co., 392 High St., Newark, N. J.
- Square Deal Radio & Electric Co., 103 Leroy St., Fenton, Mich.
- Stafford Radio Co., 29 Newberne St., Somerville, Mass. "Key to the Air"
- Standard Radio Corp., 41 Jackson St., Worcester, Mass. "Standardyne"
- Stanrad Corp., 427 E. 76th St., New York, N. Y. "Radio Pal"
- Standardyne—see Standard Radio Corp.
- Stanrad Corp., 427 E. 76th St., New York, N. Y. "Radio Pal"
- Steinite Laboratories, Radio Bldg., Atchison, Kans.
- Steinmetz Wireless Mfg. Co., 5968 Baum Blvd., Pittsburgh, Pa.
- Steinway Radio Corp., 812 N. Franklin St., Chicago, Ill. "Neo-Dyne"
- Sterling-Five—see Naylor Radio Corp.
- Stewart-Warner Speedometer Corp., 1834 Diversey Pkwy., Chicago, Ill. "Aeromaster" "Aeroking"
- Streit Radio Co., 15 Park Row, New York, N. Y. "Octo"
- Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.
- Sumter Radio Mfg. Co., Telephone St., Sumter, S. C.
- Sunbeam Radio Co., 706 Catalpa Ave., Lima, Ohio
- Super Antenna Co., Quincy, Ill.
- Super-Reinartz—see Elgin Radio Supply Co.
- Superadio—see DeWit-La France Co.
- Superflex—see Radio Products Co.
- Superfone Radio Co., McKibben Bldg., Muskogee, Okla.
- Superior—see Porter, Frank R.
- Superiorodyne—see Electric Research & Mfg. Co.
- Superlatone—see Bauman Co.
- Superiorflex—see Electrical Research & Mfg. Co.
- Superola Radio Co., 565 Broadway, New York, N. Y.
- Supertone—see Banfer Products Corp.
- Supertone—see Buckwalter Radio Corp.
- Superunit—see Hanscom Radio Devices
- Supreme—see Patterson Radio Corp.
- Sweeney Radio & Electrical Co., 207 Union Station Plaza, Kansas City, Mo.
- Sylfan—see Baker-Smith Co.
- Synchrophase—see Grebe & Co.
- T & H Radio Co., Anthony, Kans.
- Tanner Co., C. D., 4154 S. Vermont Ave., Los Angeles, Cal. "Tannerflex"
- Tannerflex—see Tanner Co.
- Taylor Radio Co., 1213 Chestnut St., Philadelphia, Pa.
- Terrace Radio Mfg. Corp., 26 Dock St., Yonkers, N. Y. "Timson"
- Thermiodyne Radio Corp., 1819 Broadway, New York, N. Y.
- Thomas & Simmermann, 221 Spencer Ave., Marion, Ind.
- Thompson-Levering Co., 351 N. 57th St., Philadelphia, Pa.
- Thompson Mfg. Co., R. E., 30 Church St., New York, N. Y. "Minuet"
- Thorobred—see Brown Radio Mfg. Co.
- Thorola Isodyne—see Reichmann Co.
- Tilman Radio Corp., Largo, Ind. "Challenger"
- Tidmarsh's Radio Supply, 1535 South A St., Elwood, Ind.
- Timson—see Terrace Radio Mfg. Corp.
- Torodyne—see Ainsworth Radio Co.
- Transcontinental—see Mu Rad Radio Corp.
- Transoceanic—see Golden-Leutz, Inc.
- Trav-Ler Mfg. Co., 3337 N. Halsted St., Chicago, Ill.
- Trego Radio Mfg. Co., 1444 Chestnut St., Kansas City, Mo. "Tregodyne"
- Tregodyne—see Trego Radio Mfg. Co.
- Tri-City Radio Electric Supply Co., Davenport, Iowa. "Simple Simon"
- Trinity—see Beacon Radio Mfg. Co.
- Turner Radio Corp., K. M., 1517 N. Wilton Pl., (Hollywood) Los Angeles, Cal. "Hollywood"
- 20th Century Radio Co., Coca Cola Bldg., Kansas City, Mo.
- Tymeson Radio Co., 21 Sawyer St., South Lancaster, Mass. "Mell-O-Tone"
- Tzigan—see Elite Radio Stores
- UCO—see Utica Compressor Co.
- U-Flex Mfg. Co., 1 S. 39th St., (West Phila.), Philadelphia, Pa.
- Ultradyn—see Radio Research Laboratories
- Ultra-Marvel—see Industrial Radio Service
- Union Service Co., Morris Heights Station, New York, N. Y.
- United Engine Co., 719 E. St. Joseph St., Lansing, Mich. "Lan Sing"
- United Radio & Mfg. Co., Gary, Ind.
- United Radio Mfg. Co., 191 Greenwich St., New York, N. Y. "Victory"
- United Sales, Inc., 9705 Cottage Grove Ave., Chicago, Ill.
- United Scientific Laboratories, Inc., 80 Fourth Ave., New York, N. Y. "Pierce Airo"
- U S L Radio Corp., Niagara Falls, N. Y.
- Utica Compressor Co., 819 Hamilton St., Utica, N. Y. "UCO"
- Valley Electric Co., 3157 S. Kingshighway, St. Louis, Mo. "Valleytone"
- Valleytone—see Valley Electric Co.
- Velvetone Radio Corp., 3731 S. Park Ave., Los Angeles, Cal.
- Veriphone—see Metropolitan Engineering Service Co.
- Vibroplex Co., 825 Broadway, New York, N. Y. "Martinola"
- Victory—see United Radio Mfg. Co.
- Viking—see Grimes, Inc.
- Vocelste—see General American Radio Mfg. Corp.
- Vogue—see Davis Mfg. Co., Richard T.
- Volotone Mfg. Co., Canfield, Ohio
- Voltamp Electric Mfg. Co., 10 Jasper St., Baltimore, Md.
- Walbert Mfg. Co., 925 Wrightwood Ave., Chicago, Ill. "Isosfarad"
- Wallace & Co., K. J., 520 Centre St., Brockton, Mass.
- Waterbury Button Co., Waterbury, Conn.
- Waugh Electric Mfg. Co., 25 N. Montgomery St., Trenton, N. J. "Echo"
- Wav-O-Dyne—see Lytton, Inc.
- Wave-Master—see Kellogg Switchboard & Supply Co.
- Wells Mfg. Co., 114 S. Brooke St., Fond du Lac, Wis.
- Wells Radio Mfg. Co., 2710 N. Ashland Ave., Chicago, Ill. "Bear Cat"
- Welty & Co., Wm. A., 36 S. State St., Chicago, Ill.

Western Cable & Light Co., Baldwin, Wis.  
 Western Coil & Electrical Co., 318 Fifth St., Racine, Wis. "Radiodyne"  
 Westingale Electric Co., 1751 Belmont Ave., Chicago, Ill.  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 Wilcox Laboratories, Charlotte, Mich.  
 Wilson Mfg. Co., E. H., 1325 Tenth St., East Moline, Ill.  
 Wippel-Raine Radio Co., 215 E. Pearl St., Cincinnati, Ohio  
 Witherbee Co., T. S., 738 Tenth Ave., New York, N. Y.  
 W-K Electric Co., 89 Middle St., Kenosha, Wis. "Oriole"  
 Wondertone Radio Mfg. Co., 4317 N. Western Ave., Chicago, Ill.  
**World Radio Corp., 349 Washington St., Boston, Mass.**  
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 WorkRite Mfg. Co., 1812 E. 30th St., Cleveland, Ohio. "King" "Air Master"  
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 Wright-De Coster Radio, Inc., 1466 Selby Ave., St. Paul, Minn. "Acme"  
 Zenith Radio Corp., 310 S. Michigan Ave., Chicago, Ill.

**SHEARS AND SNIPS, Metal**

Acme Shear Co., 82 Hicks St., Bridgeport, Conn. "Ajax" "Star"  
 Ajax—see Acme Shear Co.  
 Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"  
 Disston & Sons, Henry (Tacony), Philadelphia, Pa.  
 Manco Mfg. Co., Bradley, Ill.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Star—see Acme Shear Co.  
 Wiss & Sons Co., J., 33 Littleton Ave., Newark, N. J.

**SHEET ALUMINUM—**

see Aluminum, Sheet

**SHEET ASBESTOS—**

see Asbestos, Board and Tube

**SHEET BRASS—**

see Brass and Copper, Sheet

**SHEET FELT—**

see Felt, Sheet

**SHEET FIBRE—**

see Fiber, Vulcanized

**SHEET MICA—**

see Mica, Sheet

**SHIELDING, Liquid Panel**

Prepared to be applied with a brush; for Metal Shielding—see Foil, Aluminum; also Foil, Tin; also Brass and Copper, Sheet and Rod  
 Walker Mfg. Co., 247 Scott St., San Francisco, Cal.

**SHORT CIRCUIT SIGNALS—**

see Signals, Short Circuit

**SIGNALS, Short Circuit**

For indicating short circuits in Receiving Sets; for Tube Fuses—see Fuses, Tube  
 Mack Co., 1940 W. Delancey St., Philadelphia, Pa. "Mackontrol"  
 Mackontrol—see Mack Co.

**SILENCERS, Interference—**

see Traps, Wave

**SILICON CRYSTALS—**

see Crystals, Detector

**SILICON STEEL—**

see Steel, Silicon Sheet

**SILK COVERED ENAMELED MAGNET WIRE—**

see Wire, Enameled Magnet

**SILK COVERED MAGNET WIRE—**

see Wire, Cotton or Silk Covered Magnet

**SILVER—**

see Platinum

**SILVER CONTACT POINTS—**

see Platinum

**SILVER POINTS—**

see Platinum

**SILVER RIVETS—**

see Platinum

**SILVER RODS—**

see Platinum

**SILVER SHEET—**

see Platinum

**SILVER WIRE—**

see Platinum

**SKINNERS, Wire—**

see Tools, Wire Stripping

**SLIDE-TUNING COILS—**

see Coils, Slide Tuning

**SLIDERS, Tuning Coil**

Small spring sliding devices for changing Wave Length on Tuning Coils  
 Chapman Machine Co., Terryville, Conn.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio  
 Un-X-Ld—see Forman & Co.

**SLIDES, Radio**

For use in Cabinet Work  
 Granumes & Sons, L. F., Allentown, Pa.  
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 Stanley Works, Grove & Hill Sts., New Britain, Conn.

**SNIPS, Metal—**

see Shears and Snips, Metal

**SOCKET ADAPTERS—**

see Adapters, Socket

**SOCKET AERIALS—**

see Plugs, Antenna

**SOCKET PLUGS—**

see Plugs, Antenna

**SOCKET WRENCHES—**

see Wrenches, Socket

**SOCKETS, Composition—**

see Sockets, Vacuum Tube

**SOCKETS, Gang Vacuum Tube**

Two or more Sockets built-up on Bases ready for mounting; for Complete Amplifier Units—see Amplifiers, Audio Frequency; also Amplifiers, Radio Frequency  
 Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"  
 Cataloged on pages.....28 and 29  
 Benjamin Electric Mfg. Co., 128 S. Sangamon St., Chicago, Ill. "Cle-Ra-Tone"  
 Bestone—see Hyman & Co.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Cle-Ra-Tone—see Benjamin Electric Mfg. Co.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
 Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"  
 Na-ald—see Alden Mfg. Co.  
 United Radio Mfg. Co., 191 Greenwich St., New York, N. Y. "Victory"  
 Victory—see United Radio Mfg. Co.  
 Waterbury Button Co., Waterbury, Conn.

**SOCKETS, Glass—**

see Sockets, Vacuum Tube

**SOCKETS, Metal—**

see Sockets, Vacuum Tube

**SOCKETS, Molded—**

see Sockets, Vacuum Tube

**SOCKETS, Porcelain —**

see Sockets, Vacuum Tube

**SOCKETS, Single Vacuum Tube**

Composition, Glass, Metal, Porcelain, etc., Socket Receptacles for holding Vacuum Tubes  
 Airex Co., 797 Greenwich St., New York, N. Y.  
 Airgap Products Co., 9 Campbell St., Newark, N. J.



## SOCKETS, Single Vacuum Tube Continued

Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
 Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Na-ald"  
 Cataloged on pages.....28 and 29  
 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
 Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
 American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"  
 American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Kelford"  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
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 Aristocrat—see Kurz-Kasch Co.  
 Audiola Radio Co., 430 S. Green St., Chicago, Ill.  
 Automatic Molded Products Co., 280 Passaic St., Newark, N. J. "Resilio"  
 B-T—see Bremer-Tully Mfg. Co.  
 Beaver Machine & Tool Co., 625 Third St., Newark, N. J.  
 Benjamin Electric Mfg. Co., 123 S. Sangamon St., Chicago, Ill. "Cle-Ra-Tone"  
 Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt. "Bremco"  
 Bestone—see Hyman & Co.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Bremco—see Bennington Radio & Electric Mfg. Co.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.  
 Buffalo—see De Jur Products Co.  
 Bull Dog—see Camfield Radio Mfg. Co.  
 Bull Dog Grip—see Seiss Mfg. Co.  
 C-H—see Cutler-Hammer Mfg. Co.  
 CRC—see Central Radio Corp.  
 Caldwell—see Knox Corp.  
 Camfield Radio Mfg. Co., 829 Harrison St., Oakland, Cal. "Bull Dog"  
 Canotex Co., Auburn, N. Y.  
 Central Radio Corp., Roosevelt Ave. & Fifth St., Beloit, Wis. "CRC"  
 Champion Radio Products Co., 1400 E. 47th St., Chicago, Ill.  
 Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.  
 Chelton Electric Co., 4861 Stenton Ave., Philadelphia, Pa.  
 Circle F Mfg. Co., 720 Monmouth St., Trenton, N. J.  
 Cle-Ra-Tone—see Benjamin Electric Mfg. Co.  
 Compo-site, Inc., 207 Astor St., Newark, N. J. "Premier"  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"  
 De Jur Products Co., 199 Lafayette St., New York, N. Y. "Buffalo"  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Dutch Boy—see National Lead Co.  
 Dymac—see Electrical Products Mfg. Co.  
 Eagle Condensers, Inc., 760 Bedford Ave., Brooklyn, N. Y.  
 Eby Mfg. Co., H. H., 4710 Stenton Ave., Philadelphia, Pa.  
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 Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"  
 Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla—see Electrical Research Laboratories.  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J.

Everett Radio Co., 4207 Dorchester Ave., Chicago, Ill. "Maximus"  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fital—see Pilot Electric Mfg. Co.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
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 General Porcelain Co., Camden Ave., S.E., Parkersburg, W. Va.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio  
 Gray & Danielson Mfg. Co., 250 First St., San Francisco, Cal. "Remler"  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Haydon & Haydon, 73 Warren St., New York, N. Y.  
 Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
 Hemco—see Richards & Co.  
 Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"  
 Illinois Radio Co., 800 E. Fourth St., Springfield, Ill.  
 Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill.  
 K. B. Mfg. Co., 54 Washburn St., San Francisco, Cal.  
 Kelford—see American Specialty Co.  
 Kellogg Switchboard & Supply Co., Chicago, Ill.  
 Cataloged on pages.....98 and 99  
 Keystone Radio Co., College Ave. & Craig St., Greenville, Pa.  
 Klosner Radio Corp., 1022 E. 178th St., New York, N. Y.  
 Knox Corp., Broad & Ferris Sts., Galesburg, Ill. "Caldwell"  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Quality"  
 Kurz-Kasch Co., Dayton, Ohio "Aristocrat"  
 Leich Electric Co., Genoa, Ill.  
 Liberty Screw Products Co., 383 Shrewsbury St., Worcester, Mass.  
 Locke Radio Shop, Victor, N. Y.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Maximus—see Everett Radio Co.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland Ohio "Muzada"  
 McKee Glass Co., Jeannette, Pa.  
 Merrick Laboratories, 283 Glenwood Ave., Bloomfield, N. J.  
 Millerradio—see National Radio Co.  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Morton, George, Stockton, Cal.  
 Moulded Products Corp., 549 W. 52d St., New York, N. Y. "Sofrubba"  
 Cataloged on page.....65  
 Muzada—see Mazda Radio Mfg. Co.  
 Na-ald—see Alden Mfg. Co.  
 Nagel Electric Co., W. G., 511 Hamilton St., Toledo, Ohio  
 National Lead Co., 111 Broadway, New York, N. Y. "Dutch Boy"  
 National Radio Co., Forest Lake, Minn. "Millerradio"  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"

Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y. "Fital"  
 Pioneer Radio Corp., Plano, Ill.  
 Premier—see Compo-site Mfg. Co.  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.  
 Quality—see Kodel Radio Corp.  
 Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.  
 Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
 Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio.  
 Radion—see American Hard Rubber Co.  
 Radjo—see Electric City Novelty & Mfg. Co.  
 Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola"  
 Remler—see Gray & Danielson Mfg. Co.  
 Resilio—see Automatic Molded Products Co.  
 Richards & Co., George, 557 W. Monroe St. Chicago, Ill. "Hemco"  
 Rit-One—see Radio Sales Co.  
 Rosenbloom Co., Wm., 11 Deering Rd., Mattapan, Mass.  
 S-M—see Silver-Marshall  
 Schiff Laboratories, 283 Glenwood Ave., Bloomfield, N. J.  
 Seiss Mfg. Co., Phillips Ave. & N. Y. C. R.R., Toledo, Ohio. "Bull Dog Grip"  
 Sensory—see Heinemann Electric Co.  
 Shaw Insulator Co., 150 Coit St., Irvington, N. J.  
 Shelbyville Radio Parts Mfg. Co., 809 S. Harrison St., Shelbyville, Ind.  
 Signal Electric Mfg. Co., 1915 Broadway, Menominee, Mich.  
 Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
 Sofrubba—see Moulded Products Corp.  
 Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.  
 Star Radio Products Co., 711 S. Dearborn St., Chicago, Ill.  
 Stuart Products Corp., 663 W. Washington Blvd., Chicago, Ill.  
 Terrace Radio Mfg. Corp., 26 Dock St., Yonkers, N. Y.  
 Thorola—see Reichmann Co.  
 Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.  
 Trenle Porcelain Co., East Liverpool, Ohio.  
 Union Radio Corp., 124 Sussex Ave., Newark, N. J.  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio  
 United Radio Mfg. Co., 191 Greenwich St., New York, N. Y. "Victory"  
 Un-X-Ld—see Forman & Co.  
 Victory—see United Radio Mfg. Co.  
 Walnut Electric Mfg. Co., 308 Green St., Chicago, Ill.  
 Waterbury Button Co., Waterbury, Conn.  
 Watertown Mfg. Co., Watertown, Conn.  
 White Beauty Electric Co., 4416 N. Western Ave. Chicago, Ill.

## SOFT RUBBER TUBING— see Tubing, Soft Rubber

## SOLDER, Wire and Strip

American Solder & Flux Co., 2910 N. 16th St., Philadelphia, Pa. "Tinol"  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Brach Mfg. Co., L. S., 127 Sussex Ave., Newark, N. J.  
 Chicago Solder Co., Chicago, Ill. "Kester"  
 Cataloged on page.....108  
 Kester—see Chicago Solder Co.  
 Lukens Metal Co., Thomas F., 1105 Fairmount Ave., Philadelphia, Pa.  
 Michigan Smelting & Refining Co., 7885 Jos. Campau Ave., Detroit, Mich.  
 Standard Rolling Mills, Inc., 363 Hudson Ave., Brooklyn, N. Y.  
 Tinol—see American Solder & Flux Co.  
 Tip-Top Crystal Co., 216 Market St., Newark, N. J.  
 United American Metals Corp., Diamond St. & Meserole Ave., Brooklyn, N. Y.

**SOLDER, Rosin Core—**

see Solder, Wire and Strip

**SOLDER, Self-Fluxing—**

see Solder, Wire and Strip

**SOLDERING ACID—**

see Flux, Soldering

**SOLDERING COMPOUNDS—**

see Flux, Soldering

**SOLDERING COPPERS—**

see Coppers, Soldering  
also Irons, Electric Soldering

**SOLDERING FLUID—**

see Flux, Soldering

**SOLDERING FLUX —**

see Flux, Soldering

**SOLDERING IRONS—**

see Irons, Electric Soldering  
also Coppers, Soldering

**SOLDERING LUGS—**

see Terminals, Wire

**SOLDERING PASTE—**

see Flux, Soldering

**SOLDERING SALTS—**

see Flux, Soldering

**SOLDERLESS CONNECTORS—**

see Connectors, Solderless Bus-Wire

**SOLDERLESS LEAD-IN CONNECTORS—**

see Connectors, Solderless Lead-in

**SOLDERLESS TERMINALS—**

see Terminals, Solderless

**SPAGHETTI TUBING—**

see Tubing, Spaghetti

**SPARK COILS—**

see Coils, Wireless Spark

**SPARK GAPS, Adjustable—**

see Gaps, Adjustable Spark

**SPARK GAPS, Rotary—**

see Gaps, Rotary Spark

**SPEAKERS, Loud**

*Complete Units, including Horns, Cabinets, Cones, etc., for producing sound from electrical energy; see Horns; also Adapters, Phonograph; also Units, Loud Speaker*

A-1 Woodworking Co., 1338 San Julian St., Los Angeles, Cal.

Accuratone—see Mydar Radio Co.

Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.

Acoustic-Cone Laboratories, 96 Church St., New York, N. Y.

Advance Radio Mfg. Co., 1420 S. Michigan Ave., Chicago, Ill.

Airex Mfg. Co., 1259 Main St., Seattle, Wash.

Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo. "Marveltone"

Altone Mfg. Co., 1259 Main St., Seattle, Wash.

Ambassador Sales Co., 108 Greenwich St., New York, N. Y.

Ambotone—see American Bosch Magneto Corp.

American Bosch Magneto Corp., Springfield, Mass. "Ambotone"

American Electric Co., 6401 S. State St., Chicago, Ill. "Burns" "Victor" "Burns Ortho-Harmonic"

Amplion Corp. of America, 280 Madison Ave., New York, N. Y. "Dragon"

Ampliphone—see Okay Radio Corp.

Andrea, F. A. D., 1581 Jerome Ave., New York, N. Y. "Fada"

Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill.

Appleby Radio Mfg. Co., 250 N. Juniper St., Philadelphia, Pa.

Armstrong Co., 1501 E. 55th St., Chicago, Ill.

Artist Loud Speaker Co., 5415 St. Clair Ave., Cleveland, Ohio.

Artone—see Berg Auto Trunk & Specialty Co.

Astral Radio Corp., 1812 Chestnut St., Philadelphia, Pa.

Atlas—see Multiple Electric Products Co.

Atwater Kent Mfg. Co., 4700 Wissahickon Ave., Philadelphia, Pa.

Audialion Co., 318 E. 48th St., New York, N. Y.

Audiophone—see Bristol Co.

Audiphone—see O'Neal Mfg. Co.

Baby—see Victor Radio Corp.

Baker-Smith Co., New Call Bldg., San Francisco, Cal. "Sylfan"

Baldwin, Inc., Nathaniel, 3474 S. 23d East St., Salt Lake City, Utah.

Beacon Radio Mfg. Co., 323 Berry St., Brooklyn, N. Y. "Trinity"

Bee-Zee Products Co., 511 Chapel St., New Haven, Conn. "Eyther-Way" "True Bell"

Belltone Radio Mfg. Corp. 81 Crosby St., New York, N. Y.

Bemco Mfg. Co., 243 W. 55th St., New York, N. Y. "Tripletone"

Berg Auto Trunk & Specialty Co., American Chiclé Bldg., Long Island City, N. Y. "Artone"

Berwick—see Triangle Electro Trading Co.

Bisby Mfg. Co., 54 Warren St., New York, N. Y.

Black Beauty—see United Radio Corp.

Blood Tone Arm Co., 28th & Garfield Sts., Bay City, Mich. "Speakerola"

Bolton Co., Arthur, 1924 19th St., Santa Monica, Cal.

Borkman Radio Corp., 152 E. Seventh St. S., Salt Lake City, Utah "Velvet"

Boudette Mfg. Co., 146 Division St., Chelsea, Mass. "Sonochorde"  
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Brandes—see Federal-Brandes, Inc.

Bristol Co., Waterbury, Conn. "Audiophone"

Broadway—see Marco Mfg. Co.

Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.

Burns—see American Electric Co.

Burns Ortho-Harmonic — see American Electric Co.

Cambridge Sanitary Mfg. Co., Cambridge, Ohio. "Kirk"

Camco—see Cannon & Miller Co.

Cannon & Miller Co., Springwater, N. Y. "Camco"

Carls, M. J., 1929 S. Los Angeles St., Los Angeles, Cal. "Golden Bear"

Chanson Laboratory, 3850 Mines Ave., Los Angeles, Cal.

Claravox, Inc., 3115 Tuscarawas St., W., Canton, Ohio

Clearstone Radio Co., 2427 Gilbert Ave., Cincinnati, Ohio

Colonial Radio Corp., East Ave. & Tenth St., Long Island City, N. Y.

Como Apparatus Corp, 343 Kelley St., Manchester, N. H.

Compressed Wood Corp., 345-59 W. Austin Ave., Chicago, Ill. "Madera Clear-speaker"  
Cataloged on page.....61

Concert—see Trimm Radio Mfg. Co.

Conoidal—see Stevens & Co.

Console Master Speaker Co., 15 E. 40th St., New York, N. Y.

Consomello De Luxe—see Mazda Radio Mfg. Co.

Cook, James J., 503 S. Pulaski St., Baltimore, Md.

Crosley Radio Corp., 732 Sassafras St., Cincinnati, Ohio "Musicone"

Crucet Mfg. Co., 18 W. 23d St., New York, N. Y.

Custeloid Co., 10543 93d St., Ozone Park, N. Y. "Puratoan"

Davis Co., James M., 30 Euclid Arcade, Cleveland, Ohio "Majestic"

Davis Mfg. Co., Richard T., 5252 Broadway, Chicago, Ill. "Vogue"

Day-Fan Electric Co., Dayton, Ohio

DeForest Radio Co., 124 Sherman Ave., Jersey City, N. J.

Delano—see Modernola Co.

De Luxe—see Mercury Radio Corp.

Del Marmol Radio-Phonograph Co., 3522 Frankford Ave., Philadelphia, Pa.

Detroit Woodcraft Corp., 2262 Hendrie Ave., Detroit, Mich. "Echo-Tone"

Dexter Metal Mfg. Co., 10 S. 18th St., Philadelphia, Pa.

Dictogrand—see Dictograph Products Corp.

Dictograph Products Corp., 220 W. 42d St., New York, N. Y. "Dictogrand"

Dietzen, Inc., 71 Cortlandt St., New York, N. Y.

Dotson-Hiebert Co., 4345 France Ave., Minneapolis, Minn.

Dragon—see Amplion Corp. of America

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago, Ill. "Quali-Tone"

Dyadic—see Tower Mfg. Corp.

Dymac—see Electrical Products Mfg. Co.

Echo-Tone—see Detroit Woodcraft Corp.

Ed-U-Cator—see Mersman & Co.

Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"

Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla Miravox"

Elf—see Summit Radio Products, Inc.

Empire Electrical Products Co., 132 Greene St., New York, N. Y.

Enchanter—see Jodra Mfg. Co.

English-Whitman Products, 120 Broadway, New York, N. Y. "Wondertone"

En-Whit—see English-Whitman Products

Entertainer—see Trimm Radio Mfg. Co.

Erla Miravox—see Electrical Research Laboratories

Everhot Mfg. Co., Maywood, Ill.

Excelltone Radio Sales Co., 97 Wooster St., New York, N. Y.

Eyther-Way—see Bee-Zee Products Co.

Fada—see Andrea, F.A.D.

Farrand Mfg. Co., Thompson Ave at Court St., Long Island City, N. Y.  
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Federal-Brandes, Inc., Woolworth Bldg., New York, N. Y. "Brandes"



**SPEAKERS, Loud****Continued**

- Federal Radio Corp., 1738 Elmwood Ave. Buffalo, N. Y. "Salon" "Pleophone"
- Fine-Arts—see Plaza Music Co.
- Fitch Radio Co., 105 W. 40th St., New York, N. Y.
- Flash Radio Corp., 127 Federal St., Boston, Mass.
- Florentine Art Productions, Inc., 838 W. Austin Ave., Chicago, Ill.
- Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"
- Freed-Eiseman Radio Corp., Liberty Ave. & Junius St., Brooklyn, N. Y.
- Freshman Co., Chas., 240 W. 40th St., New York, N. Y.
- Freyan Corp., 1261 Broadway, New York, N. Y. "Speak-o-Light"
- Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill. "Musette"
- Full-A-Tone—see Fuller Co.
- Fuller Co., P. H., Emporium, Pa. "Full-A-Tone"
- G-G-H Majestic—see Grigsby-Grunow-Hinds Co.
- Globe Phone Mfg. Co., Reading, Mass.
- Gold Medal—see Morris, Walter C.
- Golden Bear—see Carls, M. J.
- Golden Gate Brass Mfg. Co., 251 Second Ave., San Francisco, Cal. "Thor"
- Golden Tone—see Kellogg Switchboard & Supply Co.
- Grand—see Mercury Radio Corp.
- Grigsby-Grunow-Hinds Co., 4540 Armistage Ave., Chicago, Ill. "G-G-H Majestic"
- Guarantee Specialty Mfg. Co., 5100 Superior Ave., Cleveland, Ohio
- H & H—see Hart & Hegeman Mfg. Co.
- Halliwel Electric Co., 113 Fourth Ave., New York, N. Y.
- Hamburg Bros., 450-52 Seventh Ave., Pittsburgh, Pa. "Pennsylvania" Cataloged on page.....110
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"
- Hartford Metal Products Co., 112 Allyn St., Hartford, Conn.
- Hartman Electrical Mfg. Co., Mansfield, Ohio. "Pedas-Teller" Cataloged on page.....96
- Hawley—see Newcombe-Hawley, Inc.
- Hayes Products Co., 1301 Fulton St., Grand Haven, Mich.
- Henderson Bros., 93 Federal St., Boston, Mass.
- Herald Electric Co., 29 End Ave., New York, N. Y. Cataloged on page.....111
- Hipco—see Hipwell Mfg. Co.
- Hipwell Mfg. Co., 825 North Ave., N. S., Pittsburgh, Pa. "Hipco"
- Hollywood—see Turner Radio Corp.
- Holtzer-Cabot Electric Co., 125 Amory St., Boston, Mass.
- Homespeaker—see Trimm Radio Mfg. Co.
- Illini Electric Co., 605 N. Walnut St., Champaign, Ill.
- Inter-State Radio Co., 98 Park Pl., New York, N. Y.
- Irving & Casson, 573 Boylston St., Boston, Mass.
- Jaynell Mfg. Co., 217 N. Desplaines St., Chicago, Ill.
- Jewell Phonoparts Co., 150 Whiting St., Chicago, Ill. "Whiting"
- Jodra Mfg. Co., 61 Pier One, Seattle, Wash. "Enchanter"
- K-E—see Kirkman Engineering Corp.
- Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill. "Golden Tone"
- Kilbourne & Clark Mfg. Corp., 101 Spokane St., Seattle, Wash.
- King-Buffalo, Inc., Buffalo, N. Y.
- Kirk—see Cambridge Sanitary Mfg. Co.
- Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"
- Kismet Kone—see Radio Telephone & Telegraph Corp.
- Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio "Quality"
- Lan Sing—see United Engine Co.
- Leader—see Victor Radio Corp.
- Leaf—Burkhard Radio Electric Corp., 158 Greene St., New York, N. Y.
- Liberty Metal Products Corp., Berea, Ohio
- Little Spitfire—see Tower Mfg. Corp.
- Lumiere—see Victor Talking Machine Co.
- Madera Clearspeaker—see Compressed Wood Corp.
- Magnavox Co., 2725 E. 14th St., Oakland, Cal.
- Majestic—see Davis Co.
- Majestic—see Metal Devices Corp.
- Major Speaker Co., 31 Euclid Arcade Annex, Cleveland, Ohio
- Malone-Lemmon Products, Inc., 130 Waynewood Pl., Plainfield, N. J.
- Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y.
- Marco Mfg. Co., 815 W. 47th Pl., Chicago, Ill. "Broadway"
- Maron Mfg. Co., 519 W. 45th St., New York, N. Y.
- Marveltone—see Ajax Electric Specialty Co.
- Marx, Conrad, 23 Judge St., Brooklyn, N. Y. "Tulip"
- Masterola—see R-C Mills Radio Co.
- Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Consomello De Luxe"
- McKee Glass Co., Jeannette, Pa.
- Meistersinger—see Tower Mfg. Corp.
- Mell-O-Tone Co., 50 E. 42d St., New York, N. Y.
- Melody—see Orator Radio Corp.
- Melodyne Radio Co., 116 W. 65th St., New York, N. Y.
- Melofonic—see Progressive Musical Instrument Co.
- Mercury Radio Corp., 87 Duane St., New York, N. Y. "De Luxe," "Grand"
- Mersman & Co., Ottawa, Ohio "Ed-U-Cator"
- Metal Devices Corp., 2642 Maplewood Ave., Chicago, Ill. "Majestic"
- Midget—see Tower Mfg. Corp.
- Mid West Mfg. Co., 15th and Wabash Aves., Chicago, Ill.
- Mignon—see Stevens & Co.
- Minuet—see Thompson Mfg. Co.
- Modernola Co., Johnstown, Pa. "Delano"
- Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.
- Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.
- Moon—see Wilson Utensil Co.
- Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y. "Gold Medal"
- Morrison, Clarence C., 2 Stone St., New York, N. Y.
- Mozart-Grand Co., Newark, N. J.
- Multiple Electric Products Co., 365 Ogden St., Newark, N. J. "Atlas"
- Musette—see Frost, Inc., Herbert H.
- Music Master Corp., Betzwood, Pa.
- Musicone—see Crosley Radio Corp.
- Mydar Radio Co., 9 Campbell St., Newark, N. J. "Accuratune"
- Narragansett Radio Corp., 133 Dyer St., Providence, R. I.
- Newcastle Radio Cabinet Co., 11th & Race Sts., Newcastle, Ind.
- Newcombe-Hawley, Inc., 160 N. La Salle St., Chicago, Ill. "Hawley"
- Newhall Chain Forge & Iron Co., 90 West St., New York, N. Y.
- Norco—see Northwestern Radio Mfg. Co.
- North Lebanon Foundry, Lebanon, Pa. "Supertone"
- Northwestern Radio Mfg. Co., 1556 E. Taylor St., Portland, Ore. "Norco"
- Nu-Tone Radio Co., Atlas Bldg., Salt Lake City, Utah
- Octacone—see Pausin Engineering Co.
- Okay Radio Corp., 22½ W. National Ave., Brazil, Ind. "Ampliphone"
- O'Neil Mfg. Co., 4738 Hudson Blvd., West New York, N. J. "Audiophone"
- Operatone—see Piroxloid Products Corp.
- Operetta—see Victor Radio Corp.
- Oracle Mfg. Co., 42 E. 12th St., New York, N. Y.
- Orator Radio Corp., 1717 Broadway, New York, N. Y. "Melody"
- Orchestrian De Luxe—see Radio Cabinet Co.
- P & G Mfg. Co., 300 S. First Ave., Maywood, Ill.
- Pacent Radio Co., 91 Seventh Ave., New York, N. Y.
- Pal Radio Co., 1204 Summit Ave., Jersey City, N. J.
- Parcells & Co., 68 W. Washington St., Chicago, Ill. "Temple"
- Pathe Phonograph & Radio Corp., 20 Grand Ave., Brooklyn, N. Y.
- Pausin Engineering Co., 747 Frelinghuysen Ave., Newark, N. J. "Octacone"
- Pedas-Teller—see Hartman Electrical Mfg. Co.
- Peerless—see United Radio Corp.
- Pennsylvania—see Hamburg Bros.
- Perfectone—see Teleradio Engineering Corp.
- Piroxloid Products Corp., 200 Fifth Ave., New York, N. Y. "Operatone"
- Pleiophone—see Federal Radio Corp.
- Plaza Music Co., 10 W. 20th St., New York, N. Y. "Fine-Arts"
- Pontico Corp., Telegraph Rd., Pontiac, Mich.
- Pooley Co., 16th St. & Indiana Ave., Philadelphia, Pa.
- Porter, Frank R., 1320 Vermont Ave., N. W., Washington, D. C.
- Powers Interests, Inc., R. W., Los Angeles, Cal.
- Progressive Musical Instrument Co., 319 Sixth Ave., New York, N. Y. "Melofonic"
- Puratoan—see Custeloid Co.
- Quali-Tone—see Duro Metal Products Co.
- Quality—see Kodel Radio Corp.
- Rad-I-Fone Co., Grand Rapids Savings Bank Bldg., Grand Rapids, Mich.
- Radio Cabinet Co., 2125 Olney St., Indianapolis, Ind. "Orchestrian De Luxe"
- Radio Corp. of America, 233 Broadway, New York, N. Y. "R.C.A." Cataloged on pages 100, 101, 102 and 103
- Radio Foundation, Inc., 25 W. Broadway, New York, N. Y. "R. F. I."
- Radio Telephone & Telegraph Corp., 130 W. 42d St., New York, N. Y. "Kismet Kone"
- Radiograph Laboratories, 210 E. Ohio St., Chicago, Ill.
- Radiolamp Co., 254 W. 34th St., New York, N. Y.
- Radiotive Corp., 5317 21st Ave., Brooklyn, N. Y. "Silken Voice"
- Rahem Horn Corp., 65 W. Houston St., New York, N. Y.
- R-C Mills Radio Corp., 41 E. 29th St., New York, N. Y. "Masterola"
- R.C.A.—see Radio Corporation of America.
- Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola" "Thorola, Jr."
- Remo Corp., Meriden, Conn. "Remola"
- Remola—see Remo Corp.
- R. F. I.—see Radio Foundation, Inc.
- Rhamstine, J. Thos., 508 E. Woodbridge St., Detroit, Mich. "Victophone"
- Rithello Corp., 68 New Chambers St., New York, N. Y.
- Robbins & Myers Co., Springfield, Ohio
- Rogers Mfg. Co., Frenchtown, N. J.
- Rola Co., 4250 Hollis St., Oakland, Cal.
- Royal Electrical Laboratories, 109 Tichenor St., Newark, N. J. "Royalfone"
- Royalfone—see Royal Electrical Laboratories
- Saal Co., H. G., 1800 Montrose Ave., Chicago, Ill.



Salon—see Federal Radio Corp.  
 Schaeffer Mfg. Co., 226 W. 41st St., Portland, Ore.  
 Scientific—see Tower Mfg. Corp.  
 Scientific Radio Laboratories 254 W. 34th St., New York, N. Y.  
 Selector Co., 2005 Sixth Ave., Seattle, Wash.  
 Serenada Co., 14 Greene St., New York, N. Y.  
 Sheldon Radio Co., 943 Wall St., Los Angeles, Cal. "Tru-Tone"  
 Showers Brothers Co., Bloomington, Ind.  
 Silken Voice—see Radiotone Corp.  
 Snyder Mfg. Co., Homer P., Little Falls, N. Y.  
 Sonochorde—see Boudette Mfg. Co.  
 Sonora Phonograph Co., 16 E. 40th St., New York, N. Y.  
**Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.**  
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 Speakerola—see Blood Tone Arm Co.  
 Speak-o-Light—see Frevan Corp.  
 Splittorf Electrical Co., 392 High St., Newark, N. J.  
 Standard—see Utah Radio Products Co.  
 Starr Piano Co., First & S. A Sts., Richmond, Ind.  
 Stentor—see Stentorfone Co.  
 Stentorfone Co., 784 Ceres Ave., Los Angeles, Cal. "Stentor"  
**Stevens & Co., 44-48 E. Houston St., New York, N. Y. "Mignon" "Conoidal"**  
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 Stewart-Warner Speedometer Corp., 1834 Diversey Pkwy., Chicago, Ill.  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Summit Radio Products, Inc., 34 Hague St., Jersey City, N. J. "Elf"  
 Superflex—see Utah Radio Products Co.  
 Superola Radio Corp., 565 Broadway, New York, N. Y. "Walcone"  
 Supertone—see North Lebanon Foundry  
 Supreme—see Utah Radio Products Co.  
 Swoboda Co., Maritime Bldg., Seattle, Wash.  
 Sylfan—see Baker-Smith Co.  
 Symphony—see Wilfert, J. Fred.  
 Teleradio Engineering Corp., 490 Broome St., New York, N. Y. "Perfectone"  
 Teletone Corp., of America, 449-53 W. 42d St., New York, N. Y.  
 Temple—see Parcels & Co.  
 Thompson-Fuller—see Thompson Mfg. Co.  
 Thompson-Levering Co., 351 N. 57th St., Philadelphia, Pa.  
 Thompson Mfg. Co., R. E., 30 Church St., New York, N. Y. "Thompson-Fuller"  
 Thor—see Golden Gate Brass Mfg. Co.  
 Thorola—see Reichmann Co.  
 Thorola, Jr.—see Reichmann Co.  
 Timbretone Mfg. Co., Hoosick Falls, N. Y.  
 Timmons Radio Products Corp., 339 E. Tulpehocken St., (Germantown) Philadelphia, Pa.  
 Titanafam Corp., Jersey City, N. J.  
 Tower Mfg. Corp., 98 Brookline Ave., Boston, Mass. "Midget" "Meistersinger" "Little Spitfire" "Scientific" "Dyadic"  
 Triangle Electro Trading Co., 4077 Park Ave., New York, N. Y. "Berwick"  
 Trimm Radio Mfg. Co., 24 S. Clinton St., Chicago, Ill. "Homespeaker" "Enter-tainer" "Concert"  
 Trinity—see Beacon Radio Mfg. Co.  
 Tripletone—see Bemco Mfg. Co.  
 True Bell—see Bee-Zee Products Co.  
 Tru-Tone—see Sheldon Radio Co.  
 Tulip—see Marx, Conrad  
 Turner Radio Corp., K. M., 1517 N. Wilton Pl., (Hollywood), Los Angeles, Cal. "Hollywood"  
 Unger Radio Mfg. Co., Milwaukee, Wis.  
 United Engine Co., 719 E. St. Joseph St., Lansing, Mich. "Lan Sing"  
 United Radio Corp., Newark, N. J. "Black Beauty"

United Radio Corp., 115 Caledonia St., Rochester, N. Y. "Peerless"  
 United Radio & Mfg. Co., Gary, Ind.  
 Universal High Power Telephone Co., Carleton Ave. and Eddy St., Seattle, Wash. "Wonderphone"  
 Un-X-Ld—see Forman & Co.  
 Utah Radio Products Co., 1427 S. Michigan Ave., Chicago, Ill. "Supreme" "Superflex" "Standard"  
 Velvet—see Borkman Radio Corp.  
 Victophone—see Rhamstine, J. Thos.  
 Victor—see American Electric Co.  
**Victor Radio Corp., 4317 N. Western Ave., Chicago, Ill. "Baby" "Leader" "Operetta"**  
*Cataloged on page.....112*  
 Victor Talking Machine Co., Camden, N. J. "Lumiere"  
 Vitalitone Radio Corp., 203 Sixth Ave., New York, N. Y.  
 Vogue—see Davis Mfg. Co.  
 Walcone—see Superola Radio Corp.  
 Warren, Jr.—see Warren Radio Phone Mfg. Co.  
 Warren Radio Phone Mfg. Co., S. Main St., Warren, R. I. "Warren, Jr."  
 Welty & Co., Wm. A., 36 S. State St. Chicago, Ill.  
 Western Cable & Light Co., Baldwin, Wis.  
 Western Electric Co., W. 22d St. & Cicero Ave., Chicago, Ill.  
 White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
 Whiting—see Jewel Phonoparts Co.  
 Wilfert, J. Fred, 140 Phillips St. (Roxbury) Boston, Mass. "Symphony"  
 Wilson Utensil Co., 815 E. Fifth St., Dayton, Ohio. "Moon"  
 Windsor Furniture Co., 1420 Carroll Ave., Chicago, Ill.  
 Winterrath Composition Amplifier Co., 405 Evergreen Ave., Brooklyn, N. Y. "Wundatone"  
 Wonder—see Wondertone Radio Mfg. Co.  
 Wonderphone—see Universal High Power Telephone Co.  
 Wondertone Radio Mfg. Co., 4317 N. Western Ave., Chicago, Ill. "Wonder"  
 Wondertone—see English-Whitman Products  
 Wright-De Coster Radio, Inc., 1466 Selby Ave., St. Paul, Minn.  
 Wundatone—see Winterrath Composition Amplifier Co.  
 Zeco—see Zisch Engineering Corp.  
 Zenith Radio Corp., 310 S. Michigan Ave., Chicago, Ill.  
 Zisch Engineering Corp., 39 Ave. L., Newark, N. J. "Zeco"

**SPIDER WEB COILS—**

see Coils, Inductance

**SPLIT KNOBS—**

see Knobs, Porcelain Wiring

**SPLIT VARIOMETERS—**

see Variometers

**SPRING BRASS—**

see Brass and Copper, Sheet

**SPRING CAT WHISKER WIRE—**

see Wire, Special Cat Whiskers

**SPRINGS, Antenna Tension**

*for taking-up Tension in outdoor Aerials*

Cleartone Radio Electrical Supply Co., 70 Audubon Ave., Providence, R. I. "Storm King"  
 Lenz—see Permanco Mfg. Corp.

Parker Metal Goods Co., 28 Cherry St., Worcester, Mass.  
**Peck Spring Co., Plainville, Conn.**  
*Cataloged on page.....113*  
 Permanco Mfg. Corp., 814 Prospect Ave., Brooklyn, N. Y. "Lenz"  
 Storm King—see Cleartone Radio Electrical Supply Co.  
 Triangle Atlantic Corp., 349 Adams St., Brooklyn, N. Y.

**SQUARE WIRE—**

see Wire, Bare Bus-Bar

**STABILIZERS, Battery—**

see Potentiometers

**STAMPINGS, Fibre**

*Manufacturers equipped to produce Fibre Stampings for Radio use from Blueprints and Specifications*

Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.  
 Excelsior Leather Washer Co., Rockford, Ill.  
 Fyberoid—see Wilmington Fibre Specialty Co.  
 Iden Fibre Co., 2359 E. 67th St., Cleveland, Ohio  
 R-B-M Mfg. Co., Logansport, Ind.  
 Schoonmaker Insulation Co., 30 University Pl., New York, N. Y.  
 Wilmington Fibre Specialty Co., Wilmington, Del. "Fyberoid."

**STAMPINGS, Metal**

*Manufacturers equipped to produce Metal Stampings for Radio use from Blueprints and Specifications*

Accurate Tool Works, Erie, Pa.  
 Allied Metal Industries, Inc., Inglewood, Cal.  
 Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa.  
 American Brass Co., Waterbury, Conn.  
 American Metal Works, 4861 Stenton Ave., Philadelphia, Pa.  
 American Pin Co. Waterbury, Conn.  
 American Ring Co., 531 Bank St., Waterbury, Conn. "Ringo Brand"  
 American Specialty Co., 165 Holland Ave., Bridgeport, Conn.  
 Ansonia Novelty Co., 285 Main St., Ansonia, Conn.  
 Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.  
 Atlantic Mfg. Co., Milford, Conn.  
 Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio  
 Automotive & Radio Mfg. Corp., 451 Greenwich St., New York, N. Y.  
 B. & L. Metal Stamping Co., 159 Jamaica Ave., Brooklyn, N. Y. "Belmet"  
 Barker Metal Goods Co., 28 Cherry St., Worcester, Mass.  
 Barnes Co., Wallace, Bristol, Conn.  
 Belmet—see B. & L. Metal Stamping Co.  
 Blake & Johnson Co., Waterbury, Conn.  
 Bridgeport Brass Co., E. Main St., Bridgeport, Conn.  
 Bridgeport Metal Goods Co., Cherry & Pine Sts., Bridgeport, Conn.  
 Bridgeport Switch Co., 209 Center St., Bridgeport, Conn.  
 Chandler Co., Springfield, Mass.  
 Clark, Cadle, Harmon Corp., 192 Mill St., Rochester, N. Y.  
 Cleveland Wrought Products Co., West 58th St., South of Denison Ave., Cleveland, Ohio  
 Conrad Bros., 1609 Cooper Ave., Evergreen, L. I., N. Y.  
 Dallas Brass & Copper Co., 820 Orleans St., Chicago, Ill.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.

## STAMPINGS, Metal Continued

Eureka Tin Ware Mfg. Co., 629 E. 16th St., New York, N. Y.  
 Eureka Tool & Machine Co., 42 Walnut St., Newark, N. J.  
 Everitt Co., 265 Franklin St., Boston, Mass.  
 Farrington & Co., 28 W. Grand St., Mount Vernon, N. Y.  
 Federal Steel Products, 2 Ave. L, Newark, N. J.  
 Fenton Machine Tool & Die Co., Fenton, Mich.  
 Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.  
 General Mfg. Co., 6637 Cottage Grove Ave., Chicago, Ill.  
 General Stamping Works, 243 E. 24th St., New York, N. Y.  
 Georges Co., Fred M., 81 Mt. Prospect Ave., Newark, N. J.  
 Grammes & Sons, L. F., Allentown, Pa.  
 Gray Brothers, Plano, Ill.  
 Hahn Mfg. Co., Harry W., 627 San Pedro St., Los Angeles, Cal.  
 Hershey Metal Products Co., Seymour Ave. & Hawkins St., Derby, Conn.  
 Hubbard Spring Co., M. D., Pontiac, Mich.  
 Janney, Steinmetz & Co., Philadelphia, Pa.  
 Kings Mfg. Co., 32 33d St., Brooklyn, N. Y.  
 Kirchen Machine Co., 113 S. Larch St., Lansing, Mich.  
 Knapp Mfg. & Supply Co., 241 Water St., New York, N. Y.  
**Lamination Stamping Co., 764 Windsor St., Hartford, Conn.**  
*Cataloged on page.....113*  
 Lenz Metal Stamping Works, J., 199 Franklin St., New York, N. Y.  
 Leyse Aluminum Co., Kewaunee, Wis.  
 Liberty Screw Products Co., 383 Schrewsbury St., Worcester, Mass.  
 Livermore, Homer F., 10 Linden St. (Allston), Boston, Mass.  
 Lovejoy Chaplet Co., Hoosick Falls, N. Y.  
 Lundquist Tool & Mfg. Co., Worcester, Mass.  
 Mattatuck Mfg. Co., E. Main St., Waterbury, Conn.  
 Mayer & Co., Geo. J., 36 S. Meridian St., Indianapolis, Ind.  
 Metalcraft & Tool Co., 202 Pennsylvania Ave., Hillside, N. J.  
 Moeller Machine Co., 2714 S. Canal St., Chicago, Ill.  
 Motor Specialties Corp., Ft. of Elliott Ave., Detroit, Mich.  
 Mucher, John J., 109 Lafayette St., New York, N. Y.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 New England Pressed Steel Co., Natick, Mass.  
 Noble & Co., F. H., 535 W. 59th St., Chicago, Ill.  
 Novelty Mfg. Co., Waterbury, Conn.  
 Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
 Parker Metal Goods Co., 28 Cherry St., Worcester, Mass.  
 Patton-MacGuey Co., Baker St. & Virginia Ave., Providence, R. I.  
 Paul & Beekman Mfg. Co., 1722 N. Fifth St., Philadelphia, Pa.  
 Platt Bros. & Co., Waterbury, Conn.  
 Powell Pressed Steel Co., Hubbard, Ohio  
 Precision Metal Workers, 3100 Carroll Ave., Chicago, Ill.  
 Quadriga Mfg. Co., 213 W. Grand Ave., Chicago, Ill.  
 R-B-M Mfg. Co., Logansport, Ind.  
 Ringgo Brand—see American Ring Co.  
 Risdon Mfg. Co., Naugatuck, Conn.  
 Schoonmaker Insulation Co., A. O., 30 University Pl., New York, N. Y.  
**Seovill Mfg. Co., Waterbury, Conn.**  
*Cataloged on page.....89*  
 Seymour Products Co., Seymour, Conn.  
 Stanley Mfg. Co., Dayton, Ohio.

Stanley Works, Grafe & Hill Sts., New Britain, Conn.  
 Steele & Johnson Mfg. Co. 779 S. Main St., Waterbury, Conn.  
 Thomas & Skinner Steel Products Co., Empire & Harmon St., Indianapolis, Ind.  
**Toaz Engineering & Sales Co., 11703 Robertson Ave., Cleveland, Ohio.**  
*Cataloged on page.....40*  
 Toledo Pressed Steel Co., Toledo Factories Bldg., Toledo, Ohio  
 Triangle Atlantic Corp., 349 Adams St., Brooklyn, N. Y.  
 Union Radio Corp., 124 Sussex Ave., Newark, N. J.  
 Union Spinning & Plating Co., 67 Sudbury St., Boston, Mass.  
 United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio  
 Viking Tool & Machine Co., 745-65th St., Brooklyn, N. Y.  
 Warner Bros. Co., 325 Lafayette St., Bridgeport, Conn.  
 Waterbury Brass Goods Corp., 26 Crane St., Waterbury, Conn.  
**Waterbury Button Co., Waterbury, Conn.**  
*Cataloged on page.....66*  
 Waterbury Mfg. Co., 236 Grant St., Waterbury Conn.  
 Wheeler & Son, Frank, Meriden, Conn.  
 Worcester Pressed Aluminum Co., 73 Beacon St., Worcester, Mass.

## STAMPS, Steel

*Steel Die for stamping name on Radio parts*  
 Hanson Co., C. H., 178 N. Clark St., Chicago, Ill.  
 Hoggson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.  
 Krautz & Co., Fred C., 2633 W. Lake St., Chicago, Ill.  
 Mechanical Engraving Co., 130 Orchard St., Newark, N. J. "Meco"  
 Meco—see Mechanical Engraving Co.  
 Meyer & Wenthe, 30 S. Jefferson St., Chicago, Ill.  
 Moss & Co., Henry, 113 W. 53d St., Brooklyn, N. Y.  
 Murdock Stamp & Specialty Co., 123 W. Pearl St., Cincinnati, Ohio  
 Ness, Jr., Geo. M., 61 Fulton St., New York, N. Y.  
 Nobel & Westbrook Mfg. Co., 19 Asylum St., Hartford, Conn.  
 Schmidt, Inc., Geo. T., 1800 Belle Plain Ave., Chicago, Ill.  
 Schwerdtle Stamp Co., 41 Cannon St., Bridgeport, Conn.  
 Spencer Mfg. Co., S. M., Washington & Cornhill Sts., Boston, Mass.  
 Stafford Co., N., 96 Fulton St., New York, N. Y.

## STANDARD RESISTANCES—

see Boxes, Standard Resistance  
 also Resistances, Standard Unit

## STANDARD SCREW-DRIVERS—

see Screw-Drivers, Standard

## STANDARDS, Capacity—

see Boxes, Standard Capacity

## STANDS, Radio—

see Tables, Radio

## STATIC CHOKERS—

see Reducers, Static

## STATIC ELIMINATORS—

see Reducers, Static

## STATIC FILTERS—

see Reducers, Static

## STATIC REDUCERS—

see Reducers, Static

## STATIC TRAPS—

see Traps, Wave

## STEEL ANTENNA WIRE—

see Wire, Copper Clad Steel

## STEEL MASTS—

see Poles, Steel  
 also Towers, Steel

## STEEL POLES—

see Poles, Steel  
 also Towers, Steel

## STEEL, Silicon Sheet

*Steel for use in Transformer Cores, Field Cores and Armatures*  
 American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.  
 Follansbee Brothers Co., Pittsburgh, Pa.  
 Trumbull Steel Co., Warren, Ohio  
 West Penn Steel Co., Brackenridge, Pa.

## STEEL STAMPS—

see Stamps, Steel

## STEEL TOWERS—

see Towers, Steel

## STEEL TRANSFORMER—

see Steel, Silicon Sheet

## STOCKS, Die

Armstrong Bros. Tool Co., 319 N. Francisco Ave., Chicago, Ill.  
 Besly & Co., Charles H., 118 N. Clinton St., Chicago, Ill.  
 Brubaker & Bros., W. L., 50 Church St., New York, N. Y.  
 Conant & Donelson Co., Conway, Mass.  
 Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.

## STOPPING CONDENSERS—

see Condensers, Fixed

## STOPS, Switch—

see Contacts, Switch

## STORAGE BATTERIES—

see Batteries, A Storage  
 also Batteries, B Storage

## STORAGE BATTERIES, Combined—

see Batteries, Combined Rectifier and Storage

## STORAGE BATTERIES, Knock Down—

see Batteries, Knock Down Storage

**STORAGE BATTERY CHARGERS—**

see Rectifiers, Battery Charging Bulb  
also Rectifiers, Battery Charging Electrolytic  
also Rectifiers, Battery Charging Vibrator  
also, Motor Generators, Battery Charging

**STORAGE BATTERY ELECTROLYTE—**

see Acid, Sulphuric

**STORAGE BATTERY FILLERS—**

see Fillers, Storage Battery  
also Syringes, Bulb

**STORAGE BATTERY PAINT—**

see Paint, Acid Resisting

**STORAGE BATTERY SYRINGES—**

see Syringes, Bulb

**STORAGE BATTERY TRAYS—**

see Trays, Glass Battery  
also Trays, Rubber Battery

**STRANDED ANTENNA WIRE—**

see Wire, Single Strand Copper Antenna

**STRANDED ENAMELED WIRE—**

see Wire, Stranded Enameled

**STRIP COPPER ANTENNA WIRE—**

see Wire, Flat or Strip Copper

**STRIP SOLDER—**

see Solder, Wire and Strip

**STRIPPERS, Insulation—**

see Tools, Wire Stripping

**STRIPS, Binding Post**

*Group of Binding Posts on small Sub-panels for Distribution of Current in Radio Receiver*

- Aetna Radio Panel Co., 30 Park Pl., New York, N. Y.
- Ajax—see Philmore Mfg. Co.
- American Hard Rubber Co., 11 Mercer St., New York, N. Y. "Radion"
- Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.
- Cortlandt Panel Engraving Co., 81 Cortlandt St., New York, N. Y.
- Eby Mfg. Co., H. H., Philadelphia, Pa.
- Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio
- Insulating Company of America, (Radio Panel & Parts Div.) 59 Warren St., New York, N. Y.
- Mucher, John J., 109 Lafayette St., New York, N. Y.
- National Electric Co., 165 Broadway, New York, N. Y.
- Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.

- Radio Sales Co., 248 W. 34th St., New York, N. Y. "Rit-One"
- Radion—see American Hard Rubber Co.
- Rit-One—see Radio Sales Co.
- Shaw Insulator Co., 150 Coit St., Irvington, N. J.
- Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.
- Walnat Electric Mfg. Co., 308 S. Green St., Chicago, Ill.
- X-L Radio Laboratories, 2424 Lincoln Ave., N., Chicago, Ill.

**STRIPS, Felt—**

see Washers, Felt

**SUB-PANEL BRACKETS—**

see Brackets, Sub-Panel

**SUB-PANELS, Wired—**

see Boards, Wired Base

**SUBSTITUTES, Battery—**

see Rectifiers, Filament Current Supply  
also Rectifiers, Plate Current Supply  
also Rectifiers, Filament and Plate Current Supply

**SULPHURIC ACID—**

see Acid, Sulphuric

**SWITCH CONTACTS—**

see Contacts, Switch

**SWITCH LEVERS—**

see Switches, Panel Lever

**SWITCH POINTS—**

see Contacts, Switch

**SWITCH STOPS—**

see Contacts, Switch

**SWITCHBOARD METERS—**

see Ammeters and Voltmeters, Switchboard Type

**SWITCHES, Antenna Throwover**

*Special Knife Switches for quick Throwover from sending to Receiving Sets; for Ground Switches—see Switches, Lighting*

- Circle T—see Trumbull Electric Mfg. Co.
- Metropolitan Electric Mfg. Co., East Ave. & 14th St., Long Island City, N. Y.
- Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T."

**SWITCHES, Anti-Capacity—**

see Switches, Cam

**SWITCHES, Automatic Antenna—**

see Relays, Cut-in

**SWITCHES, Automatic Clock**

see Switches, Clock Controlled

**SWITCHES, Baby Knife**

*Small open Knife Switches for use with Battery Voltages; for Standard Knife Switches—see Switches, Standard Knife; for nickel plated Knife Switches—see Switches Miniature Knife*

- Bryant Electric Co., 1421 State St., Bridgeport, Conn.
- Circle T—see Trumbull Electric Mfg. Co.
- H & H—see Hart & Hegeman Mfg. Co.
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H" "Paiste"
- Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"
- K-C—see King Mfg. Co.
- King Mfg. Co., B. C., 302 Park Ave., Brooklyn, N. Y. "K-C"
- Majestic Electric Mfg. Co., 806 N. 12th St., St. Louis, Mo.
- Morse Co., Frank W., 289 Congress St., Boston, Mass.
- Paiste—see Hart & Hegeman Mfg. Co.
- Paulding, John I., Inc., New Bedford, Mass.
- Sensory—see Heinemann Electric Co.

- Swan-Haverstick, Inc., 143 E. State St., Trenton, N. J.
- Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T"
- Trumbull-Vanderpoel Electric Mfg. Co., Bantam, Conn.

**SWITCHES, Cam**

*Battery Switches using cam action for making Contact*

- Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.
- Essex Mfg. Co., 40 Lawrence St., Newark, N. J.
- Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.
- Leich Electric Co., Genoa, Ill.
- Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.
- Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.
- Walnat Electric Mfg. Co., 308 S. Green St., Chicago, Ill.
- Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**SWITCHES, Clock Controlled**

*For automatically opening or closing circuits at a predetermined time*

- Automatic Timer Co., 1841 Euclid Ave., Cleveland, Ohio
- Berry, A. Hall, 71 Murray St., New York, N. Y. (Sole Distributor for Hartford Time Switch Co., Hartford, Conn.)
- D-J Time Switch Co., 1306 E. 14th St., Cleveland, Ohio
- General Electric Co., 1 River Rd., Schenectady, N. Y.
- Go-N-Set—see G. & S. Radio Research Laboratory
- G. & S. Radio Research Laboratory, 1269 Cochran Ave., Los Angeles, Cal. "Go-N-Set"
- Hartford Time Switch Co.—see Berry, A. Hall
- Mercury Time Switch Co., 832 Cherry St., Detroit, Mich.
- Racine—see Reliance Automatic Lighting Co.
- Reliance Automatic Lighting Co., Racine, Wis. "Racine"
- Tork Co., 12 E. 41st St. New York, N. Y.

**SWITCHES, Combination Pilot Light**

*Battery control Switches and Pilot Lights combined*

- Carter Radio Co., 300 S. Racine Ave., Chicago, Ill.
- Celco—see Central Engineering Laboratories



**SWITCHES, Combination Pilot**

**Light Continued**

Central Engineering Laboratories, 3345 N. Lincoln St., Chicago, Ill. "Celco"  
 Metro Electric Mfg. Co., 123 Prince St., New York, N. Y.  
**Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.**  
 Cataloged on page.....55  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**SWITCHES, Inductance**

*Complete grouped Contacts with Variable Switch for use with Tuning Coils; see also Switches, Panel Lever*

Ajax—see Philmore Mfg. Co.  
 American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Regal"  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y.  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Giffillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 H. K.—see Knoop & Pence Co.  
 Imp—see Carter Radio Co.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Keystone Radio Co., College Ave. & Craig St., Greenville, Pa.  
 Knoop & Pence Co., Peotone, Ill. "H. K"  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Radio Engineering Co., 16 Union Ave., New Rochelle, N. Y.  
 Regal—see American Specialty Co.  
 Teleradio Engineering Corp., 490 Broome St., New York, N. Y.  
 United Radio Mfg. Co., 191 Greenwich St., New York, N. Y.  
 Un-X-Ld—see Forman & Co.  
 Yaxley Mfg. Co., 9 S. Clinton St., Chicago, Ill.

**SWITCHES, Knife—**

see Switches, Baby Knife  
 also Switches, Miniature Knife  
 also Switches, Standard Knife

**SWITCHES, Lever—**

see Switches, Panel Lever

**SWITCHES, Lightning**

*Heavy Switches for Grounding Aerial when Radio Set is not in use; see also Arresters, Lightning*

Barkeley Electric Mfg. Co., Middletown, Ohio  
 Circle T—see Trumbull Electric Mfg. Co.  
 Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
 Sensory—see Heinemann Electric Co.  
 Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T."

**SWITCHES, Lock**

*Battery Switches which can be locked by removing Key or push-pull Ptn; see also Switches, Push-Pull*

Carter Radio Co., 300 S. Racine Ave., Chicago, Ill. "Imp"  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis. "Radiolac"  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"

Erla—see Electrical Research Laboratories  
 Fischer Spring Co., Chas., 240 Kent Ave., Brooklyn, N. Y.  
 Imp—see Carter Radio Co.  
 Keelock—see Metro Electric Mfg. Co.  
 Metro Electric Mfg. Co., 123 Prince St., New York, N. Y. "Keelock"  
 Millimeter Machine Works, 542 W. 22d St. New York, N. Y.  
 Radiolac—see Cutler-Hammer Mfg. Co.  
 Walbert Mfg. Co., 925 Wrightwood Ave., Chicago, Ill.

**SWITCHES, Miniature Knife**

*Small nickel plated Knife Switches; for Porcelain Base Baby Knife Switches—see Switches, Baby Knife*

Bestone—see Hyman & Co.  
 Circle T—see Trumbull Electric Mfg. Co.  
 Globe Phone Mfg. Co., Reading, Mass.  
 Heath Radio & Electric Mfg. Co., 206 First St., Newark, N. J. "Radiant"  
 Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
 Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"  
 Mar-Co.—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co."  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
**Muter Co., Leslie F., 76th St. & Greenwood Ave., Chicago, Ill.**  
 Cataloged on page.....124  
 Parker-Aeolus Corp., 161 Grand St., New York, N. Y.  
 Radiant—see Heath Radio & Electric Mfg. Co.  
 Sensory—see Heinemann Electric Co.  
 Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T"

**SWITCHES, Multiple Speaker**

**Testing**

*For comparing different Loud Speakers*  
 Ferguson, Inc., J. B., 225 W. 57th St., New York, N. Y.  
 Liberty Metal Products Corp., Berea, Ohio  
 Parcels & Co., 68 W. Washington St., Chicago, Ill. "Temple"  
 Temple—see Parcels & Co.

**SWITCHES, Multiple-point**

**Meter**

*Variable Switches for making Contact to read different Voltages in Radio Sets with one Voltmeter*  
**Weston Electric Instrument Corp., 157 Western Ave., Newark, N. J.**  
 Cataloged on page.....31

**SWITCHES, Panel Lever**

*Small Individual Switch Levers for use with Switch Points; see also Switches, Inductance*

Ajax—see Philmore Mfg. Co.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St Louis, Mo.  
 Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt. "Bremco"  
 Bremco—see Bennington Radio & Electric Mfg. Co.  
 Chapman Machine Co., Terryville, Conn.  
 Fada—see Andrea, F. A. D.  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fixt-Post—see Mydar Radio Co.  
 Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 General Radio Co., 30 State St., Cambridge, Mass.

Giffillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Heinemann Electric Co., 1736 N. Fifth St., Philadelphia, Pa. "Sensory"  
 Hipco—see Hipwell Mfg. Co.  
 Hipwell Mfg. Co., 825 North Ave., N. S. Pittsburgh, Pa. "Hipco"  
 Hoosick Falls Radio Parts Mfg. Co., Hoosick Falls, N. Y.  
 Howard Radio Co., 469 E. Ohio St., Chicago, Ill.  
 Keystone Radio Co., College Ave. & Craig St., Greenville, Pa.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Muzada"  
 Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Muzada—see Mazda Radio Mfg. Co.  
 Mydar Radio Co., 9 Campbell St., Newark, N. J. "Fixt-Post"  
 Parkin Mfg. Co., Grand Ave., San Rafael, Cal.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Radio Sales Co., 249 W. 34th St., New York, N. Y. "Rit-One"  
 Rit-One—see Radio Sales Co.  
 Seiss Mfg. Co., Phillips Ave. & N. Y. C. R.R., Toledo, Ohio  
 Sensory—see Heinemann Electric Co.

**SWITCHES, Push-Pull**

*Small Battery Switches having Push-pull Action; see also Switches, Lock*

Adams Radio Mfg. Co., 1044 W. Van Buren St., Chicago, Ill.  
 Ajax—see Philmore Mfg. Co.  
 Allen-Bradley Co., 286 Greenfield Ave., Milwaukee, Wis. "Bradleyswitch"  
 Anticap—see Sharp Spark Plug Co.  
 B. M. S.—see Brooklyn Metal Stamping Corp.  
 Benjamin Electric Mfg. Co., 128 S. Sangamon St., Chicago, Ill.  
 Bradleyswitch—see Allen-Bradley Co.  
 Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y., "B.M.S."  
 C-H—see Cutler-Hammer Mfg. Co.  
 Celco—see Central Engineering Laboratories  
 Central Engineering Laboratories, 3345 N. Lincoln St., Chicago, Ill. "Celco"  
 Central Radio Laboratories, 16 Keefe Ave. Milwaukee, Wis. "Centralab"  
 Centralab—see Central Radio Laboratories  
 Cico—see Consolidated Instrument Co.  
 Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn.  
 Consolidated Instrument Co. of America, 41 E. 42d St., New York, N. Y. "Cico"  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis. "C-H"  
 Daniel Specialty Co., 5232 Melrose Ave., Los Angeles, Cal.  
 Edelmans & Co., E., 2332 Logan Blvd., Chicago, Ill. "Jumbo"  
 Electrad, Inc., 428 Broadway, New York, N. Y.  
 Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fenton, N., 57 Murray St., New York, N. Y.  
 Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio  
**Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.**  
 Cataloged on page.....86  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 H & H—see Hart & Hegeman Mfg. Co.  
 Jiffy—see Premier Electric Co.  
 Jumbo—see Edelmans & Co.  
 Kellogg Switchboard & Supply Co., 1066

W. Adams St., Chicago, Ill.  
 Mar-Co—see Martin-Copeland Co.  
 Martin-Copeland Co., 101 Sabin Ave., Providence, R. I. "Mar-Co"  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Muzada"  
 Metro Electric Mfg. Co., 123 Prince St., New York, N. Y.  
 Millimeter Machine Works, 542 W. 22d St., New York, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 Cataloged on page.....124  
 Muzada—see Mazda Radio Mfg. Co.  
 Pacent Electric Co., 91 Seventh Ave., New York, N. Y.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Jiffy"  
 Prompto—see Sampter Radio Corp.  
 Radjo—see Electric City Novelty & Mfg. Co.  
 Sampter Radio Corp., 34 35th St., Brooklyn, N. Y. "Prompto"  
 Sharp Spark Plug Co., Bennett St., Wellington, Ohio. "Anticap"  
 Tiffany Mfg. Co., 42 Spring St., Newark, N. J.  
 Walnut Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.  
 Cataloged on page.....34  
 Wireless Radio Corp. Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
 Cataloged on page.....55

**SWITCHES, Standard Knife**

*Regular open knife switches for power circuits; for small knife switches—see switches, baby knife*  
 Anderson Mfg. Co., Albert & J. M., 305 A St., Boston, Mass.  
 Barkelew Electric Mfg. Co., Middletown, Ohio  
 Bridgeport Switch Co., 209 Center St., Bridgeport, Conn.  
 Bryant Electric Co., 1421 State St., Bridgeport, Conn.  
 Circle T—see Trumbull Electric Mfg. Co.  
 General Electric Co., 1 River Rd., Schenectady, N. Y.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "Paiste"  
 Hollins & Arrousez, 203 Wilhardt St., Los Angeles, Cal.  
 Majestic Electric Mfg. Co., 806 N. 12th St., St. Louis, Mo.  
 Mendell Electric Mfg. Co., Main St., Mattapoisett, Mass.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Paiste—see Hart & Hegeman Mfg. Co.  
 Paulding, Inc., John I., New Bedford, Mass.  
 Powerlite Switchboard Co., 4149 E. 79th St., Cleveland, Ohio  
 Safelock—see Westinghouse Electric & Mfg. Co.  
 Trumbull Electric Mfg. Co., Plainville, Conn. "Circle T"  
 Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa. "Safelock"

**SWITCHES, Throwover—**

see switches, Antenna Throwover

**SWITCHES, Time—**

see switches, Clock Controlled

**SWITCHES, Toggle Battery**

*Small battery switches having toggle movement*  
 Apco Mfg. Co. 1200 Eddy St., Providence, R. I.

B. M. S.—see Brooklyn Metal Stamping Corp.  
 Brooklyn Metal Stamping Corp., 718-22 Atlantic Ave., Brooklyn, N. Y. "B.M.S."  
 Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn.  
 Cutler-Hammer Mfg. Co., Milwaukee, Wis.  
 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Cataloged on page.....86  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Saturn Mfg. & Sales Co., 48 Beekman St., New York, N. Y.

**SYNTHETIC CRYSTALS—**

see Crystals, Detector

**SYNTHETIC QUARTZ INSULATION—**

see Insulation, Synthetic Quartz

**SYRINGES, Acid—**

see Syringes, Bulb

**SYRINGES, Battery—**

see Syringes, Bulb

**SYRINGES, Bulb**

*Acid or Battery Syringes; for Hydrometer Syringes—see Hydrometers, Battery Testing*  
 Acid Supply Utilities, 316 W. 24th St., Chicago, Ill.  
 Ala Mfg. Co., 401 S. Sangamon St., Chicago, Ill.  
 Battery Equipment & Supply Co., 1638 S. Wabash Ave., Chicago, Ill.  
 Scranton Glass Instrument Co., Scranton, Pa.  
 Victor Instrument Mfg. Co., 236 W. 55th St., New York, N. Y.

**SYRINGES, Hydrometer—**

see Hydrometers, Battery

**SYRINGES, Storage Battery**

see Syringes, Bulb

**TABLES, Radio**

*Tables for radio use providing space for accessory equipment; see also Cabinets, Wood*  
 A-1 Woodworking Co., 1338 San Julian St., Los Angeles, Cal.  
 Adapto—see Donehue Corp.  
 Adler Mfg. Co., Louisville, Ky.  
 Aerial & Radio Mfg. Co., 562 Golden Gate Ave., San Francisco, Cal.  
 Akerson-Ringstrom Co., Keokuk, Iowa. "Arco"  
 Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill.  
 Arco—see Akerson-Ringstrom Co.  
 Artone—see Berg Auto Trunk & Specialty Co.  
 Bay View Furniture Co., Holland, Mich. "Radio Spinet"  
 Bear Furniture Co., G. H., Allentown, Pa.  
 Behnke & Fink Mfg. Co., 1106 Frank St., Chicago, Ill.  
 Berg Auto Trunk & Specialty Co., American Chiclé Bldg., Long Island City, N. Y. "Artone"  
 Blandin Phonograph Co., Racine, Wis.  
 Buffalo Furniture Mfg. Co., 1021 Elk St., Buffalo, N. Y.

Burgess Cabinet Co., 1142 Franklin St., Trenton, N. J.  
 Case—see Indiana Mfg. & Electric Co.  
 Caswell-Runyan Co., Huntington, Ind.  
 Charmaphone Co., Pulaski, N. Y.  
 Conso-Enclo—see Detroit Woodcraft Corp.  
 Corbett Cabinet Mfg. Co., St. Marys, Pa.  
 Crescent Chair Co., Plymouth, Wis.  
 Detroit Woodcraft Corp., 2262 Hendrie Ave., Detroit, Mich. "Conso-Enclo"  
 Detroit Woodenware & Mfg. Co., 2152 Newton Ave., Detroit, Mich.  
 Donehue Corp., L. R., 112 Smith St., Perth Amboy, N. J. "Adapto"  
 Elgin Phonograph & Novelty Co., Elgin, Ill.  
 Excello Products Corp., 4830 W. 16th St., Cicero, Ill.  
 Express Body Corp., 44 Lake St., Crystal Lake, Ill.  
 Ferguson, Inc., J. B., 225 W. 57th St., New York, N. Y.  
 Ferguson Brothers Mfg. Co., Hoboken, N. J.  
 Frank & Son, 935 Broadway, New York, N. Y.  
 Furnas Furniture Co., 139 S. East St., Indianapolis, Ind.  
 Furniture Shops, 840 Monroe Ave., Grand Rapids, Mich.  
 Goshen Novelty & Lamp Co., Goshen, Ind.  
 Haberkorn & Co., C. H., 1331 W. Elizabeth St., Detroit, Mich.  
 Hagerstown Table Works, Hagerstown, Md.  
 Harper Mfg. Co., Cassopolis, Mich. "Peck"  
 Helmers Mfg. Co., Leavenworth, Kan.  
 Holtzman & Sons Co., Henry, 2212 E. Main St., Columbus, Ohio.  
 Hubbell, H. L., 40 Market Ave., Grand Rapids, Mich. Cataloged on page 114  
 Indiana Mfg. & Electric Co., 530 Case Blk., Marion, Ind. "Case"  
 International Equipment Co., 1326 Chestnut St., Kansas City, Mo.  
 Irving & Casson, 573 Boylston St., Boston, Mass.  
 Irving Furniture Factories, 206 Lexington Ave., New York, N. Y.  
 Jesse Mfg. Co., John O., Bryan, Ohio  
 Kelton Mfg. Co., Worcester, Mass.  
 Knoxville Table & Chair Co., Knoxville, Tenn.  
 Lan Sing—see United Engine Co.  
 Lauter Co., H., Indianapolis, Ind.  
 Lux Fibre Furniture Co., Waukesha, Wis.  
 Marshall Furniture Co., Henderson, Ky.  
 Mastercraft—see Wolf Mfg. Industries  
 Merrell Sash & Door Co., Tom, 170 W. Ocean Blvd., Long Beach, Cal.  
 Morgan Furniture Mfg. Co., Dayton, Tenn.  
 Morse & Sons, L., Athol, Mass.  
 Mt. Wolf Furniture Co., Mt. Wolf, Pa.  
 North Vernon Lumber Mills, North Vernon, Ind.  
 Ogden Sectional Cabinet Co., 700 Salem St., Lynchburg, Va.  
 Park Furniture Co., Rushville, Ind.  
 Peck—see Harper Mfg. Co.  
 Penco—see Penn Furniture Mfg. Co.  
 Penn Furniture Mfg. Co., Montgomery, Pa. "Penco"  
 Pennsylvania Lumber Sales Co., 337 S. Broad St., Philadelphia, Pa. "Twodor"  
 Perkins Phonograph Co., 831 N. Wood St., Chicago, Ill.  
 Philadelphia Radio Cabinet Makers, 28 N. Fifth St., Philadelphia, Pa.  
 Platter Cabinet Co., North Vernon, Ind.  
 Pooley Co., 16th St., & Indiana Ave., Philadelphia, Pa.  
 Price Co., Albert O., Coshocton, Ohio  
 Radio-Master Corp. of America, 28th & Garfield Sts., Bay City, Mich.  
 Radio Spinet—see Bay View Furniture Co.

## TABLES, Radio Continued

Richard Mfg. Co., Winooski, Vt.  
 Royal Radio Table Works, 44 Smith St., Brooklyn, N. Y.  
 Salisbury Bros. Furniture Co., Randolph, Vt.  
 Scheibner, C. O., Wooldridge, Mo.  
 Schloss Bros., 801 E. 135th St., New York, N. Y.  
 Sextro Furniture Co., Wm., Dalton Ave. & Wilstrach St., Cincinnati, Ohio  
 Showers Brothers Co., 914 S. Michigan Ave., Chicago, Ill.  
 Standard Piano Bench Mfg. Co., 1221 W. Lake St., Chicago, Ill.  
 Stiles & Co., H. A., 174 Portland St., Boston, Mass.  
 Thomason & Thompson Mfg. Corp., 2600 Granby St., Norfolk, Va.  
 Twodor—see Pennsylvania Lumber Sales Co.  
 Udell Works, 28th at Barnes Ave., Indianapolis, Ind.  
 United Engine Co., 719 E. St. Joseph St., Lansing, Mich. "Lan Sing"  
 Watson town Table & Furniture Co., Watson town, Pa.  
 Wells Mfg. Co., 114 S. Brooke St., Fond du Lac, Wis.  
 Whetzal, Walter M. H., 37 Plum St., Westerville, Ohio  
 Wilhelm Furniture Co., Sturgis, Mich.  
 Windsor Furniture Co., 1420 Carroll Ave., Chicago, Ill.  
 Winship & Sons, W. W., Utica, N. Y.  
 Wolf Mfg. Industries, 319 N. Third St., Quincy, Ill. "Mastercraft"  
 Wood Products Co., Hope, Ind.  
 Wright-De Coster Radio, Inc., 1466 Selby Ave., St. Paul, Minn.

## TAPE, Friction—

see *Tape*, Insulating

## TAPE, Insulating

*For wrapping Wire Terminals or Connection for additional protection*

Ackerman—see Accurate Rubber Co.  
 Accurate Rubber Co., 25 Beaver St., New York, N. Y. "Ackerman"  
 Appleton Rubber Co., Franklin, Mass. "O. K."  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill. "Beldentape"  
 Beldentape—see Belden Mfg. Co.  
 Boston Woven Hose & Rubber Co., Cambridge, Mass. "Bull Dog" "Evergrip"  
 Bull Dog—see Boston Woven Hose & Rubber Co.  
 Canfield Rubber Co., Railroad Ave. & Garden St., Bridgeport, Conn. "Impervo"  
 Chicago Mica Co., Lincoln & Campbell Sts., Valparaiso, Ind. "Micabond"  
 Clifton Mfg. Co., 5 Brookside Ave., Boston, Mass.  
 Dundee—see Okonite Co.  
 Dutch Brand—see Van Cleef Bros.  
 Elkhart Rubber Works, Elkhart, Ind.  
 Evergrip—see Boston Woven Hose & Rubber Co.  
 Firestone Tire & Rubber Co., 1289 S. Main St., Akron, Ohio  
 G. E.—see General Electric Co.  
 General Electric Co., (Merchandise Department) Bridgeport, Conn. "G. E."  
 Grimshaw—see New York Insulated Wire Co.  
 Holfast Rubber Co., Atlanta, Ga.  
 Impervo—see Canfield Rubber Co.  
 J-M—see Johns-Manville, Inc.  
 Johns-Manville, Inc., 296 Madison Ave., New York, N. Y. "J-M"  
 Kerite Insulated Wire & Cable Co., 30 Church St., New York, N. Y.  
 Lavelle Rubber Co., 320 W. Illinois St., Chicago, Ill. "Mystic"

Linotape—see Mica Insulator Co.  
 Mica Insulator Co., 68 Church St., New York, N. Y. "Linotape"  
 Micabond—see Chicago Mica Co.  
 Munsell & Co., Eugene, 68 Church St., New York, N. Y.  
 Mystic—see Lavelle Rubber Co.  
 New York Insulated Wire Co., 114 Liberty St., New York, N. Y. "Grimshaw"  
 O. K.—see Appleton Rubber Co.  
 Okonite Co., Canal St., Passaic, N. J. "Dundee"  
 Plymouth Rubber Co., Canton, Mass. "Skipknot"  
 Radiotape—see Respro, Inc.  
 Respro, Inc., (Auburn), Providence, R. I. "Radiotape"  
 Roebing's Sons, John A., Trenton, N. J.  
 St. Louis Rubber Cement Co., 3948 W. Pine St., St. Louis, Mo.  
 Si—see Superior Insulating Tape Co.  
 Skipknot—see Plymouth Rubber Co.  
 Superior Insulating Tape Co., 3046 Lambdin Ave., St. Louis, Mo. "Si"  
 United States Rubber Co., 1790 Broadway, New York, N. Y.  
 Van Cleef Bros., Woodlawn Ave. & 77th St., Chicago, Ill. "Dutch Brand"  
 Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

## TAPER REAMERS—

see *Reamers*, Taper

## TAPS AND DIES—

Armstrong Bros. Tool Co., 319 N. Francisco Ave., Chicago, Ill.  
 Bay State Tap & Die Co., 75 Chauncey St., Mansfield, Mass.  
 Brubaker & Bros., W. L., 50 Church St., New York, N. Y.  
 Butterfield & Co., (Div. Union Twist Drill Co.), Derby Line, Vt.  
 Card Mfg. Co., S. W., Mansfield, Mass.  
 Conant & Donelson Co., Conway, Mass.  
 Detroit Twist Drill Co., 2108 W. Fort St., Detroit, Mich.  
 Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.  
 Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.  
 Pratt & Whitney Co., Hartford, Conn.  
 Reed & Prince Mfg. Co., Duncan Ave., Worcester, Mass.  
 Russell Mfg. Co., Carpenters Lane, Greenfield, Mass.  
 Standard Tool Co., 6900 Central Ave., Cleveland, Ohio  
 Threadwell Tool Co., 15 Arch St., Greenfield, Mass.  
 Toledo Tap & Die Co., Clinton St., & Oakwood Ave., Toledo, Ohio

## TELEGRAPH KEYS—

see *Keys*, Transmitting

## TELEGRAPH LEARNERS SET—

see *Transmitters*, Practice Code  
 also *Transmitters*, Automatic Code

## TELEPHONE CONNECTORS, Multiple—

see *Boxes*, Multiple Phone  
 also *Plugs*, Multiple Phone  
 also *Posts*, Multiple Connection

## TELEPHONE CORD—

see *Cord*, Flexible Tinsel

## TELEPHONE CORDS—

see *Cords*, Telephone

## TELEPHONE CUSHIONS—

see *Cushions*, Rubber Phone

## TELEPHONE PLUGS—

see *Plugs*, Multiple Phone

## TELEPHONE RECEIVERS—

see *Head-Sets*

## TELEPHONES, Head—

see *Head-Sets*

## TEMPLATES, Instrument Mounting—

see *Jigs*, Mounting

## TENSION SPRINGS, Antenna—

see *Springs*, Antenna Tension

## TERMINALS, Phone Cord—

see *Tips*, Cord

## TERMINALS, Solderless

Barkeley Electric Mfg. Co., Middletown, Ohio  
 Frankel Connector Co., 177 Hudson St., New York, N. Y.  
 Rajah Co., Bloomfield, N. J.  
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## TERMINALS, Wire

*Small soldering Lugs for connecting Wires*  
 Ajax—see Philmore Mfg. Co.  
 American Radio Hardware Co., 203 Lafayette St., New York, N. Y.  
 Amsco Products, Inc., Broome & Lafayette Sts., New York, N. Y.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Breznell, J. H., 136 Livingston St., Brooklyn, N. Y.  
 Dallas Brass & Copper Co., 820 Orleans St., Chicago, Ill.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Elm City—see Woodruff, Inc.  
 Erla—see Electrical Research Laboratories  
 General Electric Co., 1 River Rd., Schenectady, N. Y.  
 General Stamping Works, 243 E. 24th St., New York, N. Y.  
 H & H—see Hart & Hegeman Mfg. Co.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 Heintz & Kohlmoos, 221 Natoma St., San Francisco, Cal.  
 Henninger Corp., A. F., 4509 Ravenswood Ave., Chicago, Ill.  
 Ideal Clamp Mfg. Co., 202 Bradford St., Brooklyn, N. Y.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Lastite—see Stevens Co.  
 Liberty Transformer Co., 123 N. Sangamon St., Chicago, Ill.  
 Metropolitan Electric Mfg. Co., East Ave. & 14th St., Long Island City, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 Ohio Parts Co., Colerain & Monmouth Aves., Cincinnati, Ohio  
 Orbit Coil Co., 6 Howard St., New York, N. Y.  
 Patton-MacGuyer Co., Baker St. & Virginia Ave., Providence, R. I.



Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Pilot Electric Mfg. Co., 323 Berry St., Brooklyn, N. Y.  
 Polla's Tool & Stamping Co., Joseph, 81 Freeport St., Boston, Mass.  
 Runzel-Lenz Electric Mfg. Co., 1751 N. Western Ave., Chicago, Ill.  
 Scovill Mfg. Co., Waterbury, Conn.  
 Shakeproof Lock Washer Co., 2517 N. Keeler Ave., Chicago, Ill.  
*Cataloged on page.....115*  
 Sherman Mfg. Co., H. B., 2 Barney St., Battle Creek, Mich.  
 Stevens Co., William, 27 Hammatt Rd., Rosindale, Mass. "Lastite"  
 Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
 Toaz Engineering & Sales Co., 11703 Robertson Ave., Cleveland, Ohio  
*Cataloged on page.....40*  
 Walnart Electric Mfg. Co., 308 S. Green St., Chicago, Ill.  
 Waterbury Button Co., Waterbury, Conn.  
 Weber Electric Co., Brooklyn Sta., Cleveland, Ohio  
 Woodruff, Inc., 74 State St., New Haven, Conn. "Elm City"  
 Zierick Machine Works, F. R., 6 Howard St., New York, N. Y.

**TEST CLIPS—**

see Clips, Electrical Test

**TEST SETS—**

see Sets, Electrical Testing

**TEST TUBES—**

see Tubes, Glass B Battery

**TESTERS, Battery—**

see Ammeters and Voltmeters  
 also Hydrometers  
 also Instruments, Charge Indicating

**TESTING GALVANOMETERS—**

see Galvanometers, Testing

**TESTING HYDROMETERS, Battery—**

see Hydrometers, Battery Testing

**TESTING INSTRUMENTS, Electrical—**

see Sets, Electrical Test

**TESTING INSTRUMENTS, Tube—**

see Instruments, Tube Testing

**TEXTILE HORNS, Impregnated—**

see Horns, Impregnated Textile

**THREADED WIRES—**

see Wires, Threaded

**THROWOVER SWITCHES—**

see Switches, Antenna Throwover

**TIME SWITCHES—**

see Switches, Clock Controlled

**TIN FOIL—**

See Foil, Tin

**TINNED COPPER WIRE—**

see Wire, Bare Bus-Bar  
 also Wire, Insulated Bus-Bar

**TINSEL CORD—**

see Cord, Flexible Tinsel

**TIPS, Cord**

*Small metal sleeve placed on end of Head Set Cords or Test Leads; for Tip Jacks—see Jacks, Cord Tip*

Ajax—see Philmore Mfg. Co.  
 American Radio Hardware Co., 203 Lafayette St., New York, N. Y.  
 Barkelew Electric Mfg. Co., Middletown, Ohio  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Carey & Son, F. W., Warren, Mass.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
 Erla—see Electrical Research Laboratories  
 Illinois Radio Co., 800 S. Fourth St., Springfield, Ill.  
 McCall Novelty Co., 631 W. Edwards St., Springfield, Ill.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Patton-Mac Guyer Co., Baker St. & Virginia Ave., Providence, R. I.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Sherman Mfg. Co., H. B., 3 Barney St., Battle Creek, Mich.  
 Waterbury Button Co., Waterbury, Conn.

**TOGGLE BATTERY SWITCHES—**

see Switches, Toggle Battery

**TONE ARMS, Phonograph—**

see Adapters, Radio Phonograph

**TOOLS, Bus Bar Bending**

*Special Devices for bending Bus Bar to shape—see also Pliers, Radio*  
 Bend-Rite—see Nestor Mfg. Co.  
 Nestor Mfg. Co., 40 W. 13th St., New York. "Bend-Rite"  
 North Bros. Mfg. Co., American & Lehigh Aves., Philadelphia, Pa. "Yankee"  
 Radiogem Corp., 66 W. Broadway, New York, N. Y. "Ragemco"  
 Ragemco—see Radiogem Corp.  
 Speed-a-Loop—see Stevens & Co.  
 Stevens & Co., 375 Broadway, New York, N. Y. "Speed-a-Loop"  
 Yankee—see North Bros. Mfg. Co.

**TOOLS, Condenser Cleaning—**

see Cleaners, Condenser

**TOOLS, Wire Stripping**

*For quickly removing insulation from Wires*  
 Acme—see Laubscher, August  
 B & E—see Schollhorn Co.  
 Laubscher, August, 77 Fort Pleasant Ave., Springfield, Mass. "Acme"  
 Schollhorn Co., Wm., 414 Chapel St., New Haven, Conn. "B & E"  
 Stevens & Co., 375 Broadway, New York, N. Y.

**TORCHES, Alcohol**

Champion—see Lenk Mfg. Co.  
 Duplex—see Peerblow Mfg. Co.  
 Gaffney Co., Jas. A., 35 Warren St., New York, N. Y.

Howco Blotorch Co., 1744 South Fourth St., Columbus, Ohio  
 Hunt-Lasher Co., 202 Harrison Ave., Boston, Mass. "Selfblo"  
 Lenk Mfg. Co., 30 Merrimac St., Boston, Mass. "Champion"  
 Peerblow Mfg. Co., Leetsdale, Pa. "Duplex"  
 Selfblo—see Hunt-Lasher Co.

**TORCHES, Blow—**

see Torches, Alcohol

**TOWERS, Steel**

*Complete self supporting-steel Towers for mounting Antenna; for Steel Poles—see Poles, Steel*

American Bridge Co., 71 Broadway, New York, N. Y.  
 Archbold-Brady Co., Syracuse, N. Y.  
 Bates Expanded Steel Truss Co., 152d St., East Chicago, Ind.  
 Bates Steel Corp., Walter, Gary, Ind.  
 Blaw-Knox Co., Farmers Bank Bldg., Pittsburgh, Pa.  
 Coombs & Co., R. D., 30 Church St., New York, N. Y.  
 Herrick Iron Works, 18th & Campbell Sts., Oakland, Cal.  
 Lehigh Structural Steel Co., Allentown, Pa.  
 Mast Lightning Rod Co., (Radio Accessory Div.), West Milton, Ohio  
 Milliken Bros. Mfg. Co., 26 Park Pl., New York, N. Y.  
 Pacific Coast Steel Co., Rialto Bldg., San Francisco, Cal.  
 Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa.  
 Riter-Conley Co., Oliver Bldg., Pittsburgh, Pa.  
 U. S. Wind Engine & Pump Co., Batavia, Ill.  
*Cataloged on page.....116*  
 Whittlesey Engineering Co., Cleveland, Ohio

**TRANSFERS, Decalcomania**

*Transfer Name Plates, Trade Marks, etc.*  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Commerford Co., 446 Adelpia St., Brooklyn, N. Y.  
 Kwik-Way—see Meyercord Co.  
 Litchfield Corp., 25 Dey St., New York, N. Y.  
 Meyercord Co., 131 W. Washington St., Chicago, Ill. "Kwik-Way"  
 National Decalcomania Corp., 236 N. 60th St., Philadelphia, Pa.  
 Nu-Life Auto Aid Co., Hartford, Conn.  
 Palm Brothers Decalcomania Co. (South Norwood), Cincinnati, Ohio  
 Palm, Fechter Co., 67 Fifth Ave., New York, N. Y.

**TRANSFERS, Engraving—**

see Transfers, Decalcomania

**TRANSFORMER STEEL—**

see Steel, Silicon Sheet

**TRANSFORMERS, Audio Frequency**

*Individual Transformer Units with iron wound Core for use as Audio Frequency Amplifiers*  
 Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
 Advance Radio Mfg. Co., 1420 S. Michigan Ave., Chicago, Ill.  
 Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.

## TRANSFORMERS, Audio Frequency Continued

- Alden Mfg. Co., Dept. D-7, Springfield, Mass. "Truphonic"  
Cataloged on pages .....28 and 29
- Algo—see Algonquin Electric Co.
- Algonquin Electric Co., Poughkeepsie, N. Y. "Algo"
- All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill. "Rauland-Lyric"
- Ambassador Sales Co., 108 Greenwich St., New York, N. Y.
- American Specialty Co., 165 Holland Ave., Bridgeport, Conn. "Kelford"
- American Transformer Co., 178 Emmet St., Newark, N. J. "AmerTran" "De Luxe"  
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- AmerTran—see American Transformer Co.
- Anylite Electric Co., Fort Wayne, Ind. "King Cole"
- Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill. "Microdyne"
- Bestone—see Hyman & Co.
- Branston, Chas. A., 815 Main St., Buffalo, N. Y.
- Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.
- Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "Euphonic"
- Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.
- Case—see Indiana Mfg. & Electric Co.
- Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.
- Columbia Radio Corp., 155 N. Union St., Chicago, Ill.
- Comet—see Precise Mfg. Corp.
- Como Apparatus Corp., 343 Kelley St., Manchester, N. H.
- Connecticut Telephone & Electric Co., 70 Britannia St., Meriden, Conn.
- Consomello—see Mazda Radio Mfg. Co.
- Conrad Bros., 1609 Cooper Ave., Evergreen, N. Y.
- Crescent Mfg. Co., 337 Central Station, Toledo, Ohio
- De Luxe—see American Transformer Co.
- Dongan Electric Mfg. Co., 2987 Franklin St., Detroit, Mich.
- Doran & Sons, James C., 150 Chestnut St., Providence, R. I. "Equi-Flux"
- Dymac—see Electrical Products Mfg. Co.
- Eagle Mfg. Co., 72 York St., Jersey City, N. J. "Emco-tran"
- Eclipse—see Precise Mfg. Corp.
- Eisemann Magneto Corp., 165 Broadway, New York, N. Y.
- Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"
- Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Eria Concert Grand"
- Eloc Radio Corp., 88 E. Kinney St., Newark, N. J.
- Emcotran—see Eagle Mfg. Co.
- Endly, C. C., 22 Sturges Ave., Mansfield, Ohio
- Equi-Flux—see Doran & Sons
- Eria Concert Grand—see Electrical Research Laboratories
- Essex Mfg. Co., 40 Lawrence St., Newark, N. J.
- Euphonic—see Bremer-Tully Mfg. Co.
- Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.
- Firth Radio Corp., 25 Beaver St., New York, N. Y.
- Flint Radio Co., 1817 Wilson Ave., Chicago, Ill.
- F. M. C.—see Ford Radio & Mica Corp.
- Ford Radio & Mica Corp., 111 Blecker St., New York, N. Y. "Supertran" "F. M. C."  
Cataloged on page .....116
- Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"
- G. I.—see General Instrument Corp.
- General Instrument Corp., 479 Broadway, New York, N. Y. "G. I."
- General Radio Co., 30 State St., Cambridge, Mass.
- Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.
- Halldorson Co., 4745 N. Western Ave., Chicago, Ill.
- Harkness Radio Corp., Kenneth, 727 Frelinghuysen Ave., Newark, N. J.
- Harmonik—see Karas Electric Co.
- Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"
- Hegehog—see Premier Electric Co.
- H & H—see Hart & Hegeman Mfg. Co.
- Hiler Audio Corp., 10 Argyle Terrace, Irvington, N. J.
- Hyman & Co., Henry, 220 W. 14th St., New York, N. Y. "Bestone"
- Illini Electric Co., 605 N. Walnut St., Campaign, Ill.
- Imperial Radio Corp., 1945 Wabansia Ave., Chicago, Ill.
- Inter-State Radio Co., 98 Park Pl., New York, N. Y.
- Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.
- Karas Electric Co., 4040 North Rockwell St., Chicago, Ill. "Harmonik"
- Kelford—see American Specialty Co.
- Kellogg Switchboard & Supply Co., Chicago, Ill.  
Cataloged on pages .....98 and 99
- Kenyon Mfg. Co., 2360 Amsterdam Ave., New York, N. Y.
- Keystone Radio Laboratories, Inc., 154 Whiting St., Chicago, Ill. "National"
- Killark Electric Mfg. Co., 4006 Laclede Ave., St. Louis, Mo.
- King Cole—see Anylite Electric Co.
- Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio.
- Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal. "Lemco"
- Lemco—see Lee Electric & Mfg. Co.
- Liberty Transformer Co., 123 N. Sangamon St., Chicago, Ill.
- Manhattan Radio & Merchandising Co., 220 W. 42d St., New York, N. Y.
- Mar-Co—see Martin Copeland Co.
- Marle Engineering Co., 309 Main St., Orange, N. J. "Marlefer"
- Marlefer—see Marle Engineering Co.
- Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"
- Maxum Radio & Electric Co., 54th St. & Woodland Ave., Philadelphia, Pa.
- Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Consomello"
- Meloformer—see Robertson-Davis Co.
- Microdyne—see Apex Electric Mfg. Co.
- Mignon Industries & Export Co.—see Niagara Sales Corp.
- Millerradio—see National Radio Co.
- Modern Electric Mfg. Co., 312-16 Mulberry St., Toledo, Ohio "Symphony"
- Mohawk Electric Mfg. Co., 17 Kirk Pl., Newark, N. J.
- Morton, George, Stockton, Cal.
- Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
Cataloged on page .....124
- National—see Keystone Radio Laboratories, Inc.
- National Co., 110 Brookline St., Cambridge, Mass.
- National Radio Co., Forest Lake, Minn. "Millerradio"
- New York Coil Co., 338 Pearl St., New York, N. Y.
- Niagara Sales Corp., 3 Waverly Pl., New York, N. Y. (Sole Distributors for Mignon Industries & Export Co., Rochester, N. Y.)
- Pacent Electric Co., 91 Seventh Ave., New York, N. Y.
- Peerless Radio Corp., Newton Lower Falls, Mass. "Twin-Aud"
- Perry Wire Works, 280 New Main St., Yonkers, N. Y.
- Precise Mfg. Corp., 254 Mill St., Rochester, N. Y. "Comet" "Eclipse"  
Cataloged on page .....121
- Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Hegehog"
- Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Receptrad Silvertone"
- Radio Television Co., 9410 St. Catherine Ave., Cleveland, Ohio
- Ranger Coil Co., West Davenport, N. Y.
- Rauland-Lyric—see All-American Radio Corp.
- Receptrad Silvertone—see Radio Receptor Co.
- Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola"
- Reliable Parts Mfg. Co., 2819-33 Prospect Ave., Cleveland, Ohio
- Rhamstine, J. Thos., 508 E. Woodbridge St., Detroit, Mich.
- Rittenhouse Mfg. Co., Honeoye Falls, N. Y.
- Robertson-Davis Co., 412-20 Orleans St., Chicago, Ill. "Meloformer"  
Cataloged on page .....118
- Rubicon Co., 29 N. Sixth St., Philadelphia, Pa.
- S-M—see Silver-Marshall.
- Sampter Radio Corp., 34 35th St., Brooklyn, N. Y. "Selec-Tran"
- Samson Electric Co., Canton, Mass.  
Cataloged on page .....119
- Scientific Equipment Co., 393 N. Maple Ave., Ridgewood, N. J.
- Selec-Tran—see Sampter Radio Corp.
- Shore Electric Co., 64 University Pl., New York, N. Y.
- Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"
- Standard Transformer Co., Dana Ave., Warren, Ohio
- Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio
- Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.
- Supertran—see Ford Radio & Mica Corp.
- Symphony—see Modern Electric Mfg. Co.
- Thordarson Electric Mfg. Co., Chicago, Ill.  
Cataloged on page .....120
- Thorola—see Reichmann Co.
- Truphonic—see Alden Mfg. Co.
- Twin-Aud—see Peerless Radio Corp.
- Un-X-Ld—see Forman & Co.
- Wagner Radio Co., 643 Washington Blvd., Blvd., Chicago, Ill.
- Waterbury Button Co., Waterbury, Conn.
- White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.
- Wireless Radio Corp., Varick Ave. & Harrison Pl., Brooklyn, N. Y.  
Cataloged on page ..... 55
- Wireless Shop, 150 Glendale Blvd., Los Angeles, Cal.

## TRANSFORMERS, Auto

- Transformers having common Primary and Secondary Winding*
- Allis-Chalmers Mfg. Co., Milwaukee, Wis.
- American Transformer Co., 178 Emmet St., Newark, N. J.
- General Electric Co., River Rd., Schenectady, N. Y.
- Packard Electric Co., Warren, Ohio
- Thordarson Electric Mfg. Co., Chicago, Ill.
- Pittsburgh Transformer Co., Columbus & Preble Sts., Pittsburgh, Pa.
- Wagner Electric Corp., 6400 Plymouth Ave., St. Louis, Mo.
- Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

**TRANSFORMERS, Microphone**

*Complete Amplifying Transformers for Microphone Circuits*  
Radio Corp. of America, 233 Broadway, New York, N. Y.  
Thordarson Electric Mfg. Co., Chicago, Ill.

**TRANSFORMERS, Modulation**

*For use in Transmission Modulating Circuits*  
Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
General Radio Co., 30 State St., Cambridge, Mass.  
Miller Co., Bertrand F., High & Canal Sts., Trenton, N. J.  
Thordarson Electric Mfg. Co., Chicago, Ill.

**TRANSFORMERS, Oscillation**

*Small air wound Transformers for use in transmitting Circuits*  
Radio Corp. of America, 233 Broadway, New York, N. Y.  
Thordarson Electric Mfg. Co., Chicago, Ill.

**TRANSFORMERS, Power**

*For Filament and Plate Current Supply from House Lighting Circuits*  
Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
American Transformer Co., 178 Emmet St., Newark, N. J. "AmerTran"  
Cataloged on page .....117  
AmerTran—see American Transformer Co.  
Dongan Electric Mfg. Co., 2987 Franklin St., Detroit, Mich.  
Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
General Radio Co., 30 State St., Cambridge, Mass.  
Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.  
9 Dal & Co., 717 N. Second St., Arkansas City, Kan.  
Radio Corp. of America, 233 Broadway, New York, N. Y.  
S-M—see Silver-Marshall  
Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M."  
Thordarson Electric Mfg. Co., Chicago, Ill.  
Cataloged on page .....120

**TRANSFORMERS, Push Pull**

*Special types of paired Transformers*  
All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
Como Apparatus Corp., 343 Kelley St., Manchester, N. H.  
Crescent Mfg. Co., 337 Central Sta., Toledo, Ohio  
Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
Erla—see Electrical Research Laboratories.  
Modern Electric Mfg. Co., 312-16 Mulberry St., Toledo, Ohio  
Peerless Radio Corp., Newton Lower Falls, Mass.  
Precise Mfg. Corp., 254 Mill St., Rochester, N. Y.  
Rubicon Co., 29 N. Sixth St., Philadelphia, Pa.  
Samson Electric Co., Canton, Mass.  
Cataloged on page .....119  
Thordarson Electric Mfg. Co., Chicago, Ill.

**TRANSFORMERS, Radio Frequency**

*Individual Intermediate Transformers for use as Radio Frequency Amplifiers; for Tuned Radio Frequency Transformers—see Transformers, Tuned Radio Frequency*  
Acme Apparatus Co., 37 Osborn St., Cambridge, Mass.  
Acorn—see Royal Radio Products Co.  
Airkore—see Radiophone Equipment Co.  
All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
Apex Electric Mfg. Co., 1410 W. 59th St., Chicago, Ill. "Microdyne"  
B-T—see Bremer-Tully Mfg. Co.  
Ballantine—see Boonton Rubber Mfg. Co.  
B. M. S.—see Brooklyn Metal Stamping Corp.  
Boone Radio Corp., J. T. 3469 E. Jefferson Ave., Detroit, Mich.  
Boonton Rubber Mfg. Co., 223 Fanny Rd., Boonton, N. J. "Ballantine"  
Branson, Chas. A., 815 Main St., Buffalo, N. Y.  
Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
Brooklyn Metal Stamping Corp., 718-28 Atlantic Ave., Brooklyn, N. Y. "Tri-Coil" "B.M.S."  
Buell Mfg Co., 2975 Cottage Grove Ave., Chicago, Ill.  
Carter Mfg. Co., 1728 Coit Ave., (E. Cleveland), Cleveland, Ohio.  
Celco—see Central Engineering Laboratories.  
Central Engineering Laboratories, 3345 N. Lincoln St., Chicago, Ill. "Celco"  
Columbia Radio Corp., 155 N. Union St., Chicago, Ill.  
Como Apparatus Corp., 343 Kelley St., Manchester, N. H.  
Daniel Specialty Co., 5232 Melrose Ave., Los Angeles, Cal.  
Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasla"  
Davis Co., James M., 30 Euclid Arcade, Cleveland, Ohio. "Davisco"  
Davisco—see Davis Co.  
Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
Dubilier Condenser & Radio Corp., 4377 Bronx Blvd., New York, N. Y. "Duratran"  
Duratran—see Dubilier Condenser & Radio Corp.  
Eisemann Magneto Corp., 165 Broadway, New York, N. Y.  
Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"  
Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla Maxitran"  
Erla Maxitran—see Electrical Research Laboratories.  
Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
Forest City Rubber Co., 1276 Ontario St., Cleveland, Ohio  
General Mfg. Co., 6637 Cottage Grove Ave., Chicago, Ill. "Gen-Ral"  
General Radio Co., 30 State St., Cambridge, Mass.  
Gen-Ral—see General Mfg. Co.  
Gilfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
High Frequency Laboratories, 131 N. Wells St., Chicago, Ill.  
Imperial Radio Corp., 1945 Wabansia Ave., Chicago, Ill.  
Independent Radio Corp., Real Estate Trust Bldg., Philadelphia, Pa. "R.B.C."  
Jalisco Mfg. Co., 229 E. Hennepin Ave., Minneapolis, Minn.  
Jefferson Electric Mfg. Co., 501 S. Green St., Chicago, Ill.  
Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
Liberty Transformer Co., 123 N. Sangamon St., Chicago, Ill.

Marle Engineering Co., 309 Main St., Orange, N. J.  
Maxum Radio & Electric Co., 54th St. & Woodland Ave., Philadelphia, Pa.  
Melocoupler—see Robertson-Davis Co.  
Microdyne—see Apex Electric Mfg. Co.  
Millerradio—see National Radio Co.  
Modern Electric Mfg. Co., 312-16 Mulberry St., Toledo, Ohio  
National Radio Co., Forest Lake, Minn. "Millerradio"  
Precise Mfg. Corp., 254 Mill St., Rochester, N. Y.  
R. B. C.—see Independent Radio Corp.  
Radio Instrument Co., Tenth & D Sts. N. W., Washington, D. C. "Vir Bren"  
Radio Receptor Co., 106 Seventh Ave., New York, N. Y. "Receptrad Silvertone"  
Radiophone Equipment Co., 1409 W. York St., Philadelphia, Pa. "Airkore"  
Radio—see Electric City Novelty & Mfg. Co.  
Rasla—see Davidson Radio Corp.  
Receptrad Silvertone—see Radio Receptor Co.  
Richardson Radio, Inc., Foster Ave. & Hulst St., Long Island City, N. Y.  
Robertson-Davis Co., 412-20 Orleans St., Chicago, Ill. "Melocoupler"  
Cataloged on page .....118  
Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Acorn"  
Rubicon Co., 29 N. Sixth St., Philadelphia, Pa.  
St. James Laboratories, 845 W. Washington Blvd., Chicago, Ill.  
Samson Electric Co., Canton, Mass.  
Schindler, Chas., 1401 W. Delaware Ave., Toledo, Ohio.  
Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
S-M—see Silver-Marshall  
Sterling Mfg. Co., 2831-53 Prospect Ave., Cleveland, Ohio.  
Tri-Coil—see Brooklyn Metal Stamping Corp.  
U-Flex Mfg. Co., 1 S. 39th St. (W. Phila.), Philadelphia, Pa.  
United Metal Stamping & Radio Co., 411 E. Pearl St., Cincinnati, Ohio.  
Uptegraff Electric & Mfg. Co., National Bank Bldg., Pittsburgh, Pa.  
Victoreen—see Walker Co.  
Vir Bren—see Radio Instrument Co.  
Walker Co., George W., 6524 Carnegie Ave., Cleveland, Ohio. "Victoreen"  
Welty & Co., Wm. O., 36 S. State St., Chicago, Ill.  
Werner Radio Mfg. Co., P., 204 Ninth St., Brooklyn, N. Y.

**TRANSFORMERS, Tuned Radio Frequency**

*Individually air wound Transformers for use with Variable Condensers as Tuned Radio Frequency Transformers; for Intermediate Transformers—see Transformers, Radio Frequency*  
Acme Products Co., 107 W. Canton St., Boston, Mass.  
Aero Products, Inc., 1772 Wilson Ave., Chicago, Ill.  
Cataloged on page ..... 46  
Air-King—see Excelsior Radio Co.  
Ajax—see Fraser Wire Co.  
Ajax Electric Specialty Co., 1926 Chestnut St., St. Louis, Mo.  
All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill.  
Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
B-T Torostyle—see Bremer-Tully Mfg. Co.  
Benjamin Electric Mfg. Co., 128 S. Sangamon St., Chicago, Ill. "Lekeless"  
Biderman Radio Products, 1274 44th St., Brooklyn, N. Y.  
Bodine Electric Co., 2254 W. Ohio St., Chicago, Ill.  
Branson, Chas. A., 815 Main St., Buffalo, N. Y. "Hetorus"



## TRANSFORMERS, Tuned Radio Frequency Continued

Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T Torostyle"  
 Browning-Drake—see National Co.  
 Bruno Radio Corp., 40 Payntar Ave., Long Island City, N. Y.  
 Camfield Radio Mfg. Co., 829 Harrison St., Oakland, Cal. "Duoformer"  
 Cardwell Mfg. Corp., Allen D., 81 Prospect St., Brooklyn, N. Y.  
 Cruver Mfg. Co., 2460 Jackson Blvd., Chicago, Ill. "Proudfoot"  
 Davenport Radio Laboratories, 1711 W. Locust St., Davenport, Iowa  
 Daven Radio Corp., 158 Summit St., Newark, N. J.  
 Duoformer—see Camfield Radio Mfg. Co.  
 Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla Circloid"  
 Ellis Electrical Laboratory, 3502 Wesley Ave., Berwyn, Ill.  
 Erla Circloid—see Electrical Research Laboratories  
 Excelsior Radio Co., 226 Grand St., Brooklyn, N. Y. "Alr-King"  
 Feri Radio Mfg. Co., 1167 Bedford Ave., Brooklyn, N. Y.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y. "Ajax"  
 General Coil Co., 25 Sterling St., Weymouth, Mass.  
 General Instrument Corp., 479 Broadway, New York, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 General Winding Co., 214 Fulton St., New York, N. Y. "Gen-Win"  
 Gen-Win—see General Windings Co.  
 Globe Radio Equipment Co., 217 W. 125th St., New York, N. Y.  
 Hammarlund Mfg. Co., 424-383 W. 33d St., New York, N. Y.  
 Henninger Corp., A. F., 4905 Ravenswood Ave., Chicago, Ill. "Power-Plus"  
 Hetorus—see Branston, Chas. A.  
 Jaeger-Carlson Mfg. Co., 161 Jamaica Ave., Brooklyn, N. Y.  
 Lokeless—see Benjamin Electric Mfg. Co.  
 Majestic Radio Sales & Service Co., 1713 Race St., Philadelphia, Pa.  
 Mar-Co—see Martin-Copeland Co.  
 Marle Engineering Co., 309 Main St., Orange, N. J.  
 Martin-Copeland Co., 101 Sabin St., Providence, R. I. "Mar-Co"  
 Melocoupler—see Robertson-Davis Co.  
 Midland Electric Co., Transportation Bldg., Indianapolis, Ind.  
 Morris Register Co., 29th St. & Broadway, Council Bluffs, Iowa.  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
 National Co., 110 Brookline St., Cambridge, Mass. "Browning-Drake"  
 Naxon Electrical Laboratories, 4524 Cottage Grove Ave., Chicago, Ill.  
 New York Coil Co., 338 Pearl St., New York, N. Y.  
 Nolte Mfg. Co., 193 Plainfield Ave., Jersey City, N. J. "Zig Zag"  
 Orbit Coil Co., 6 Howard St., New York, N. Y.  
 Power-Plus—see Henninger Corp.  
 Precision Coil Co., 209 Centre St., New York, N. Y.  
 Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill. "Radiotran"  
 Proudfoot—see Cruver Mfg. Co.  
 Radio Foundation, Inc., 25 W. Broadway, New York, N. Y.  
 Radio Service Laboratories, 3881 Isabella Ave., Cincinnati, Ohio  
 Radio Units, Inc., 1316 First Ave., Maywood, Ill.

Radiotran—see Premier Electric Co.  
 Ranger Coil Co., West Davenport, N. Y.  
 Reichmann Co., 1725 W. 74th St., Chicago, Ill. "Thorola"  
 Reliable Parts Mfg. Co., 2819-33 Prospect Ave., Cleveland, Ohio  
 Robertson-Davis Co., 412-20 Orleans St., Chicago, Ill. "Melocoupler"  
 Cataloged on page .....118  
 S-M—see Silver-Marshall  
 Sickles Co., F. W., 130 Union St., Springfield, Mass.  
 Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
 Summit Radio Mfg. Co., Summit, N. J.  
 Thorola—see Reichmann Co.  
 Un-X-Ld—see Forman & Co.  
 Washburn Mfg. Co., 220 E. Superior St., Kokomo, Ind.  
 Welty & Co., Wm. A., 36 S. State St., Chicago, Ill.  
 Zig-Zag—see Nolte Mfg. Co.

## TRANSMISSION TOWERS— see Towers, Steel

## TRANSMITTERS, Automatic Code

*Automatic Ticker Sets for teaching the Telegraph Code*  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Omnigraph Mfg. Co., 19 Hudson St., New York, N. Y.

## TRANSMITTERS, Practice Code

*Key type ticker Sets for teaching the Telegraph Code*  
 Ajax Electric Co., 18 Palmer St., Cambridge, Mass.  
 Bunnell & Co., J. H., 32 Park Pl., New York, N. Y.  
 Omnigraph Mfg. Co., 13 Hudson St., New York, N. Y.  
 Signal Electric Mfg. Co., 1915 Broadway, Menominee, Mich.

## TRANSMITTING INDUCTANCES—

see Inductances, Variable Transmitting

## TRANSMITTING KEYS—

see Keys, Transmitting

## TRANSMITTING MICROPHONES—

see Microphones, Transmitting

## TRAPS, Wave

*Assembled Unit for reducing interfering Waves from nearby Stations*  
 Acorn—see Royal Radio Products Co.  
 Aero Products, Inc., 1772 Willson Ave., Chicago, Ill.  
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 All-American Radio Corp., 4201 Belmont Ave., Chicago, Ill. "Filtrola"  
 Carco—see Carter Mfg. Co.  
 Carter Mfg. Co., 1728 Cort Ave., (E. Cleveland) Cleveland, Ohio "Carco"  
 Century Engineering Corp., Newark, N. J. "Elimifiser"  
 Cheever Co., William E., 1167 Broad St., Providence, R. I. "Wecco"  
 Control-O-Meter—see Malone-Lemmon Products, Inc.  
 Doran Sons, James C., 150 Chestnut St., Providence, R. I.  
 Electrad, Inc., 428 Broadway, New York, N. Y.  
 Elimifiser—see Century Engineering Corp.  
 Ferbend Electric Co., 429 W. Superior St., Chicago, Ill.

Filtrola—see All-American Radio Corp.  
 Ford Co., K. N., 1411 Alta Vista Blvd., Los Angeles, Cal. "Radiogrand"  
 General Instrument Corp., 479 Broadway, New York, N. Y.  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H & H"  
 H & H—see Hart & Hegeman Mfg. Co.  
 Kodel Radio Corp., 507 E. Pearl St., Cincinnati, Ohio  
 Malone-Lemmon Products, Inc., 130 Waywood Pl., Plainfield, N. J. "Control-O-Meter"  
 Muter Co., Leslie F., 76th & Greenwood Ave., Chicago, Ill.  
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 National Cycle & Radio Co., 605 E. Fourth St., Amarillo, Texas.  
 Nolte Mfg. Co., 193 Plainfield Ave., Jersey City, N. J.  
 Nycor Radio Electric Co., Penn & Centre Sts., Wilkensburg, Pa.  
 Radiogrand—see Ford Co.  
 Radio Requirements Co., Fifth & Market Sts., Philadelphia, Pa. "Thurman"  
 Radio Research Laboratories, 1600 N. Kansas St., Hastings, Neb.  
 Rider Laboratories, John F., 145 W. 45th St., New York, N. Y.  
 Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Acorn"  
 Square Deal Radio & Electric Co., 103 Leroy St., Fenton, Mich.  
 Steinmetz Wireless Mfg. Co., 5968 Baum Blvd., Pittsburgh, Pa.  
 Super-Booster Distributing Co., 2528 W. Seventh St., Los Angeles, Cal.  
 Thurman—see Radio Requirements Co.  
 Wecco—see Cheever Co.

## TRAYS, Glass Battery

*Glass Trays for use with wet Storage Batteries*  
 Benzer Corp., 87 Cooper Ave., Brooklyn, N. Y.  
 Marsden Glass Works, J. E., Ambler, Pa. "Tufglas"  
 McKee Glass Co., Jeannette, Pa.  
 Tufglas—see Marsden Glass Works

## TRAYS, Rubber Battery

*Rubber Trays for use with wet Storage B Batteries*  
 May Rubber Co., 826 Arch St., Philadelphia, Pa.

## TRICKLE CHARGERS—

see Rectifiers, Electrolytic  
 also Rectifiers, Bulb

## TRICKLE CHARGING RELAYS—

see Relays, Trickle Charging

## TUBE ADAPTERS—

see Adapters, Direct Socket

## TUBE ASBESTOS—

see Asbestos, Board and Tube

## TUBE BUILDING MACHINES—

see Machines, Tube Building

## TUBE FUSES—

see Fuses, Tube

## TUBE MICA—

see Mica, Sheet and Tube

**TUBE PROTECTORS—**

see Fuses, Tube

**TUBE REACTIVATORS—**

see Reactivators, Tube

**TUBE RECEPTACLES—**

see Sockets, Vacuum Tube  
also Sockets, Gang Vacuum

**TUBE SOCKETS—**

see Sockets, Vacuum Tube  
also Sockets, Gang Vacuum

**TUBE TESTING INSTRUMENTS—**

see Instruments, Tube Testing

**TUBES, Glass B Battery**

*Small Test Tubes for holding Elements and Electrolyte of Storage B Batteries; for Glass Jars—see Jars, Glass Battery*

Camden Glass Works, 105 Arch St., Camden, N. J.  
Hazel-Atlas Glass Co., Wheeling, W. Va.  
Vineland Scientific Glass Co., Vineland, N. J.

**TUBES, Hard Rubber—**

see Rubber, Hard

**TUBES, Laminated—**

see Insulation, Composition

**TUBES, Paper and Card Board**

*For use as Forms in winding Coils*

Cleveland Container Co., 10610 Berea Rd., Cleveland, Ohio.  
Climaxcore—see Climax Tube Co.  
Climax Tube Co., Mystic, Conn. "Climaxcore"  
Empire Paper Products Corp., 155 Bank St., New York, N. Y.  
Pairpoint Corp., New Bedford, Mass.  
St. Louis Paper Can & Tube Co., 3275 Big Bend Rd., St. Louis, Mo.

**TUBES, Porcelain Wiring**

*Hollow Non-conductors made of Porcelain for use with Lead-in Wires, Power Circuits, Etc.*

Carey Ohio Porcelain Co., Carey, Ohio.  
Circle F Mfg. Co., 720 Monmouth St., Trenton, N. J.  
Fedco—see Federal Porcelain Co.  
Federal Porcelain Co., Carey, Ohio. "Fedco"  
Findlay Electric Porcelain Co., Findlay, Ohio.  
General Porcelain Co., Camden Ave. S.S., Parkersburg, W. Va.  
Illinois Electric Porcelain Co., Macomb, Ill.  
Trenle Porcelain Co., East Liverpool, Ohio

**TUBES, Rectifier**

*Tubes specially designed for Power Rectification; for two and three electrode Tubes for Radio Detection—see Tubes, Vacuum*

Apco Mfg. Co., 1200 Eddy St., Providence, R. I.  
Cataloged on page ..... 79  
Cable Supply Co., 907 Broadway, New York, N. Y.  
Cleartron Vacuum Tube Co., 28 W. 44th St., New York, N. Y.  
Cunningham, E. T., 370 Seventh Ave., New York, N. Y.

Farad Corp., 239 Centre St., New York, N. Y.  
Jove Lamp Works, 103 Park Ave., New York, N. Y.  
Neon Products Corp., 107 W. 23d St., New York, N. Y.  
Perryman Electric Co., 33 W. 60th St., New York, N. Y.  
Cataloged on page .....122  
Phenix Electric Laboratories, 334 Canal St., New York, N. Y. "Torpedo"  
Radio Corp. of America, 233 Broadway, New York, N. Y. "Rectron"  
Cataloged on pages 100, 101, 102 and 103  
Raytheon Mfg. Co., 292 Main St., Cambridge, Mass.  
Cataloged on page .....122  
Rectron—see Radio Corporation of America  
Schickler Products Corp., 401 Mulberry St., Newark, N. J.  
Sylvania Products Co., Emporium, Pa.  
Cataloged on page .....123  
Torpedo—see Phenix Electric Laboratories.  
Unitron Electric Co., 276 New St., Newark, N. J.

**TUBES, Vacuum**

*Two or three Electrode Vacuum Tubes for Radio Detection and Amplification*

Ablett Co., Charles R., 22 Reade St., New York, N. Y. "Sky-Sweeper"  
Aerodyn Co., 1780 Broadway, New York, N. Y.  
Aladdin Mfg. Co., 55 Hoyt St., Newark, N. J.  
Alladin—see Continental Sales Co.  
Allan Mfg. Co., 117 Windsor St., Arlington, N. J. "Alltron"  
Alltron—see Allan Mfg. Co.  
Amplitron—see Pennant Radio Laboratories  
Archatron—see Ken-Rad Corp.  
Arcturus Radio Co., 52 Vanderbilt Ave., New York, N. Y.  
Armor—see Armstrong Electric & Mfg. Co.  
Armstrong Electric & Mfg. Co., 351 Halsey St., Newark, N. J. "Armor"  
Atlantic Electric Lamp Co., Danvers, Mass.  
Atlas Radio Corp., 3 Foster St., Peabody, Mass.  
Audion—see De Forest Radio Co.  
B-M—See Birk-Morton Vacuum Products Co.  
Baker-Smith Co., New Call Bldg., San Francisco, Cal. "S-lfan"  
Bear Radio Products Corp., 207 Market St., Newark, N. J.  
Bennington Radio & Electric Mfg. Co., 522 Main St., Bennington, Vt. "Bremco"  
Birk-Morton Vacuum Products Co., Owensboro, Ky. "B-M"  
Blue Bell—see Branford Radio Mfg. Co.  
Bluebird Tube Co., 200 Broadway, New York, N. Y.  
Branford Radio Mfg. Co., 1145 Fox St., New York, N. Y. "Blue Bell"  
Braun Co., W. C., 32 S. Clinton St., Chicago, Ill. "Shepherd"  
Bremco—see Bennington Radio & Electric Mfg. Co.  
Brendonne Corp., 42 Main St., Orange, N. J.  
Brighton Laboratories, Inc., 17 Oakridge Ave., Nutley, N. J. "True Blue"  
Bull Dog—see Radiotive Corp.  
Cable Supply Co., 907 Broadway, New York, N. Y. "Speed"  
C. E. Mfg. Co., 702 Eddy St., Providence, R. I. "CeCo"  
Cataloged on page .....121  
CeCo—see C. E. Mfg. Co.  
Chester Electric Co., 39 Tracy Ave., East Lynn, Mass.  
Cleartron Vacuum Tube Co., 28 W. 44th St., New York, N. Y. "Hi-Constron"  
Commercial Enclosed Fuse Co., 1317 Willow Ave., Hoboken, N. J. "Playtron"

Conneway Electric Laboratories Co., 406 Jefferson St., Hoboken, N. J. "Magnatron Rex" "Magnatron"  
Continental Sales Co., 179 W. Washington St., Chicago, Ill. "Alladin"  
Cunningham, E. T., 370 Seventh Ave., New York, N. Y.  
Daven Radio Corp., 158 Summit St., Newark, N. J.  
DeForest Radio Co., 124 Sherman Ave., Jersey City, N. J. "Audion"  
Dextron Radio Laboratory, 74 Sterling St., East Orange, N. J.  
Diamond Vacuum Products Co., 4053 Diversey Ave., Chicago, Ill. "Diatrons"  
Diatrons—see Diamond Vacuum Products Co.  
Diode—see Electrad, Inc.  
Donle-Bristol Corp., Cambridge & Tremont Sts., Meriden, Conn.  
Duraco—see Duratron Products Corp.  
Duratron Products Corp., 539 Lewis St., Union City, N. J. "Duraco" "Permatron"  
E. R. C.—see Eastern Radio Corp.  
Eastern Radio Corp., 36 Devereaux St., Arlington, Mass. "E. R. C."  
Econotron—see Nulite Electric Co.  
Edlo Laboratories, Inc., Lynn, Mass.  
Electrad, Inc., 428 Broadway, New York, N. Y. "Diode"  
Electrical Research Laboratories, 2500 Cottage Grove Ave., Chicago, Ill. "Erla"  
Electron Tube Laboratories, 2217 Lafayette St., Fort Wayne, Ind.  
Elektron—see Lectrodio Corp.  
Empire Electrical Products Co., 132 Greene St., New York, N. Y. "Empiretron"  
Empire-tron—see Empire Electrical Products Co.  
Erla—see Electrical Research Laboratories  
Farad Corp., 239 Centre St., New York, N. Y.  
Gem Tube Co., 200 Broadway, New York, N. Y.  
Globe Electric Co., Century Bldg., Pittsburgh, Pa.  
Gold Seal Electrical Co., 250 Park Ave., New York, N. Y.  
Goldentone—see United Radio & Electric Corp.  
Henderson Bros., 93 Federal St., Boston, Mass.  
Hi-Constron—see Cleartron Vacuum Tube Co.  
Hytron Corp., 19 Oakland St., Salem, Mass.  
Ideal Products Corp., 78 Mechanic St., Newark, N. J. "Puratron"  
Imperial Radio Corp., 1945 Wabansia Ave., Chicago, Ill. "Vitavox"  
Jaeger Research Laboratories, 270 Park Ave., Weehawken, N. J.  
Jove Lamp Works, 103 Park Ave., New York, N. Y.  
K. & H. Electric Co., 41 Commercial St., Newark, N. J. "Musiktron"  
Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill. "McCullough"  
Ken-Rad Corp., Owensboro, Ky. "Archatron"  
Kimmig Puratron Mfg. Co., 1707 N. 12th St., Philadelphia, Pa.  
Konkle, James H., 192 Market St., Newark, N. J. "Loudspeaker"  
Leco—see Lynn Electric Corp.  
Lectrodio Corp., 186 Market St., Lynn, Mass. "Elektron"  
Liberty Appliance Corp., 249 E. 43d St., New York, N. Y.  
Livetone—see Royal Electric Co.  
Loudspeaker—see Konkle, James H.  
Lynn Electric Corp., 412 Broad St., Lynn, Mass. "Leco"  
MacLaren Mfg. Co., 26 Park Pl., New York, N. Y.  
Magnatron—See Conneway Electric Laboratories Co.

**TUBES, Vacuum  
Continued**

Magnatron Rex—see Conneway Electric Laboratories Co.  
 Magnavox Co., 2725 E. 14th St., Oakland, Cal.  
 Marathon—see Northern Mfg. Co.  
 Martin Radio & Electric Co., 130 N. 52d St., New York, N. Y. "Packard"  
 Mastertone Radio Corp., 120 Central Ave., Newark, N. J.  
 McCullough—see Kellogg Switchboard & Supply Co.  
 Mizpah—see Nulite Electric Co.  
 Musiktron—see K. & H. Electric Co.  
 Musselman, A. J., 549 W. Washington Blvd., Chicago, Ill.  
 Myers Radio Tube Corp., 1890 E. 40th St., Cleveland, Ohio.  
 Northern Mfg. Co., 365 Ogden St., Newark, N. J. "Marathon"  
 Nulite Electric Co., 220 W. 42d St., New York, N. Y. "Econotron" "Mizpah"  
 Pacific Radio Laboratory, 256 S. Los Angeles St., Los Angeles, Cal. "Perfectron"  
 Packard—see Martin Radio & Electric Co.  
 Pennant Radio Laboratories, 57 Hoyt St., Newark, N. J. "Ampltron"  
 Perfectron—see Pacific Radio Laboratory  
 Permatron—see Duratron Products Corp.  
 Perryman Electric Co., 33 W. 60th St., New York, N. Y.  
 Cataloged on page .....122  
 Phenix Electric Laboratories, 334 Canal St., New York, N. Y.  
 Philadelphia Radio Mfg. Co., 3040 Stiles St., Philadelphia, Pa.  
 Pingree Radio Service, Inc., 170 Summer St., Boston, Mass.  
 Platron—see Rooney Lamp Co.  
 Playtron—see Commercial Enclosed Fuse Co.  
 Puratron—see Ideal Products Corp.  
 Q. R. S. Music Co., 306 S. Wabash Ave., Chicago, Ill. "Red Top"  
 Qualitron Mfg. Co., 527 Morgan St., Union City, N. J.  
**Radio Corp. of America, 233 Broadway, New York, N. Y. "Radiotrons"**  
 Cataloged on pages 100, 101, 102 and 103  
 Radio Requirements Co., Fifth & Market Sts., Philadelphia, Pa. "Thermionic"  
 Radio Telephone & Telegraph Corp., 130 W. 42d St., New York, N. Y.  
 Radiotive Corp., 5317 21st Ave., Brooklyn, N. Y. "Bull Dog"  
 Radiotrons—see Radio Corp. of America  
 Red Top—see Q. R. S. Music Co.  
 Resonata Corp. of America, see Tectron Radio Corp.  
 Rooney Lamp Co., F. J., 1317 Willow Ave., Hoboken, N. J. "Platron"  
 Royal Electric Co., 186 Third St., Boston, Mass. "Livetone"  
 Royal Electrical Laboratories, 109 Tichenor St., Newark, N. J. "Royalphone"  
 Royalphone—see Royal Electrical Laboratories  
 Schickerling Products Corp., 401 Mulberry St., Newark, N. J.  
 Shepherd—see Braun Co.  
 Simplex—see Titania Mfg. Co.  
 Sky-Sweeper—see Ablett Co.  
 Sonatron Tube Co., 108 W. Lake St., Chicago, Ill.  
 Speed—see Cable Supply Co.  
 Stewart-Warner Speedometer Corp., 1834 Diversey Pkway., Chicago, Ill.  
 Sturdy Engineering Co., 422 S. Clark St., Chicago, Ill.  
 Sunlight Lamp Co., Newton Falls, Ohio  
 Supertron Mfg. Co., 222 Washington St., Hoboken, N. J.  
 Sylfan—see Baker-Smith Co.  
 Sylvania Products Co., Emporium, Pa.  
 Cataloged on page .....123

Tectron Radio Co., 1270 Broadway, New York, N. Y. (Sole Distributors for Resonata Corp. of America, New York, N. Y.)  
 Televocal Corp., 67 Fifth Ave., New York, N. Y.  
 Thermionic—see Radio Requirements Co.  
 Thornell-Maclaren Associates, 26 Park Pl., New York, N. Y.  
 Titania Mfg. Co., 236 W. 55th St., New York, N. Y. "Simplex"  
 Travin Radio Mfg. Co., 72 Cortlandt St., New York, N. Y.  
 True Blue—see Brighton Laboratories, Inc.  
 United Radio & Electric Corp., 418 Central Ave., Newark, N. J. "Ureco" "Goldentone"  
 Universal Electric Lamp Co., 24 Treat Pl., Newark, N. J.  
 Ureco—see United Radio & Electric Corp.  
 Usona Mfg. Co., 103 E. 125th St., New York, N. Y.  
 Van Horne Co., Franklin, Ohio  
 Veby Radio Co., 47 Morris Ave., Newark, N. J.  
 Vesta Battery Corp., 2100 Indiana Ave., Chicago, Ill.  
 Vitavox—See Imperial Radio Corp.  
 Yankee Tube Corp., 6 Church St., New York, N. Y.  
 Zetka Laboratories, 9 S. Fullerton Ave., Montclair, N. J.

**TUBING, Aluminum—**  
see Aluminum, Sheet

**TUBING, Brass and Copper**

American Brass Co., Waterbury, Conn. "Anaconda"  
 Cataloged on page .....40  
 Anaconda—see American Brass Co.  
 Bridgeport Brass Co., E. Main St., Bridgeport, Conn.  
 Chase Companies, Inc., 236 Grand St., Waterbury, Conn.  
 Mueller Brass Co., Port Huron, Mich.  
 National Copper & Smelting Co., 1895 Coltman Rd., Cleveland, Ohio  
 Randolph-Clowes Co., 384 Bank St., Waterbury, Conn.  
 Roberts Tube Works, 2500 Military Ave., Detroit, Mich.  
 Rome Brass & Copper Co., Bouck St., Rome, N. Y.  
 Rome Hollow Wire & Tube Co., Railroad St., Rome, N. Y.  
 Scovill Mfg. Co., Waterbury, Conn.  
 Cataloged on page .....89  
 United Wire & Supply Co., 1497 Elmwood Ave., Providence, R. I.  
 Wells & Co., A. H., 563 Watertown Ave., Waterbury, Conn.  
 Williams & Son, E. A., 105 Plymouth St., Jersey City, N. J.  
 Wolverine Tube Co., 1411 Central Ave., Detroit, Mich.

**TUBING, Cambric—**  
see Tubing, Spaghetti

**TUBING, Copper—**  
see Tubing, Brass and Copper

**TUBING, Fibre—**  
see Fibre, Vulcanized

**TUBING, Mica—**  
see Mica, Sheet

**TUBING, Soft Rubber**

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.  
 Bowers Rubber Works, 853 Sacramento St., San Francisco, Cal.

Canfield Rubber Co., Railroad Ave. & Garden St., Bridgeport, Conn.  
 Cincinnati Rubber Mfg. Co., Franklin Ave., (Norwood) Cincinnati, Ohio. "Royal"  
 Continental Rubber Works, 1092 Liberty St., Erie, Pa. "Vitalic"  
 Diamond Rubber Co., 1780 Broadway, New York, N. Y.  
 Dural Rubber Corp., Flemington, N. J.  
 Faultless Rubber Co., Ashland, Ohio  
 Federal Rubber Co., of Illinois, Cudahy, Wis.  
 Firestone Tire & Rubber Co., 1289 S. Main St., Akron, Ohio  
 Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio  
 Lavelle Rubber Co., 320 W. Illinois St., Chicago, Ill.  
 Mechanical Rubber Co., C. & P. & Nickel Plate R.R., Cleveland, Ohio  
 Miller Rubber Co. of N. Y., S. High St., Akron, Ohio  
 New York Belting & Packing Co., 91 Chambers St., New York, N. Y.  
 Royal—see Cincinnati Rubber Mfg. Co.  
 United States Rubber Co., 1790 Broadway, New York, N. Y.  
 Vitalic—see Continental Rubber Works

**TUBING, Spaghetti**

*Impregnated woven Cambric Tubing for protecting Bus-bar Wiring against accidental Short Circuit*  
 Acme Wire Co., Dixwell Ave., New Haven, Conn.  
 Ajax—see Philmore Mfg. Co.  
 B-H—see Bentley-Harris Mfg. Co.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill. "Beldentube" "Itala"  
 Beldentube—see Belden Mfg. Co.  
 Bentley-Harris Mfg. Co., Elm & Ash Sts., Conshohocken, Pa. "B-H"  
 Blue Ribbon—see Crescent Braid, Inc.  
**Brand & Co., Wm., 27 E. 22d St., New York, N. Y.**  
 Cataloged on page .....125  
 Crescent Braid, Inc., 1012 Eddy St., Providence, R. I. "Blue Ribbon"  
 Empire—see Mica Insulator Co.  
 Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio  
 Irvington Varnish & Insulator Co., Tremont Terrace, Irvington, N. J.  
 Itala—see Belden Mfg. Co.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Mica Insulator Co., 68 Church St., New York, N. Y. "Empire"  
 Mitchell-Rand Mfg. Co., 18 Vesey St., New York, N. Y.  
 Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
 Varflex Corp., 403 Elm St., Rome, N. Y.  
 Westphal Mfg. Laboratory, 80 E. Jackson Blvd., Chicago, Ill.

**TUBING, Varnished Cambric—**  
see Tubing, Spaghetti

**TUBULAR STEEL POLES—**  
see Poles, Steel

**TUNED RADIO FREQUENCY COILS—**  
see Transformers, Tuned Radio Frequency

**TUNED RADIO FREQUENCY TRANSFORMERS—**  
see Transformers, Tuned Radio Frequency

**TUNERS, Three Circuit—**  
see Tuners and Tuning Coils



**TUNERS AND TUNING COILS**

*Special forms of Coils for use in Tuned Circuits; for Coils tuned by sliding contacts—see Coils, Slide Tuning; for Two Circuit Coils with Variable Rotor—see Variocouplers*

A-P—see Acme Products Co.  
**Aalco Radio Laboratories, Inc.**, 1912 S. Wabash Ave., Chicago, Ill.  
 Cataloged on page.....30  
 Acme Products Co., 107 N. Canton St., Boston, Mass. "A-P"  
 Acorn—see Royal Radio Products Co.  
**Aero Products, Inc.**, 1772 Wilson Ave., Chicago, Ill.  
 Cataloged on page.....46  
 Air-King—see Excelsior Radio Co.  
 Air-Trol—see Imperial Electric Mfg. Co.  
 All-Henry Coil Co., 2726 Lincoln Blvd., South Gate, Cal.  
 Ambassador Sales Co., 108 Greenwich St., New York, N. Y.  
 Amel Radio Laboratories, 173 Greenwich St., New York, N. Y.  
 American Mechanical Laboratories, 285 N. Sixth St., Brooklyn, N. Y. "Clartuner"  
 Andrews—see Radio Units, Inc.  
 Arc Rad Products, 48 S. Seventh St., Newark, N. J.  
 B-T—see Bremer-Tully Mfg. Co.  
 Bell Radio Corp., 1913 Fifth Ave., N. Birmingham, Ala.  
 Birnbach Radio Co., 370 Seventh Ave., New York, N. Y.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Bremer-Tully Mfg. Co., 532 S. Canal St., Chicago, Ill. "B-T"  
 Bruno Radio Corp., 40 Paynter Ave., Long Island City, N. Y.  
 Buell Mfg. Co., 2975 Cottage Grove Ave., Chicago, Ill.  
 Carco—see Carter Mfg. Co.  
 Carter Mfg. Co., 1728 Coit Ave., (E. Cleveland), Cleveland, Ohio. "Carco"  
 Chase Radio, 41 Forest St., Springfield, Mass.  
 Clartuner — see American Mechanical Laboratories  
 Coast Coil—see Foote Radio Corp.  
 Coast Coupler Co., 245 E. Seventh St., Long Beach, Cal.  
 Conrad Bros., 1609 Cooper Ave., Evergreen, N. Y.  
 Crescent Radio Mfg. Co., 35 W. 19th St., New York, N. Y.  
 Curkoid Corp., 100 Charles St., New York, N. Y.  
 Davenport Radio Laboratories, 1711 W. Locust St., Davenport, Iowa  
 Davidson Radio Corp., 193 W. Ninth St., Brooklyn, N. Y. "Rasia"  
 Eastern Coil Co., 22 Warren St., New York, N. Y.  
 Eastern Electric & Mfg. Co., 140 Chestnut St., Providence, R. I.  
 Electrad, Inc., 428 Broadway, New York, N. Y. "Veria"  
 Electric City Novelty & Mfg. Co., 120 Odell St., Schenectady, N. Y. "Radjo"  
 Elkay—see Langbein-Kaufman Radio Co.  
 Essential Coil Co., 4556 N. Clark St., Chicago, Ill.  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Pall Mall"  
 Excelsior Radio Co., 226 Grand St., Brooklyn, N. Y. "Air-King"  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Feri Radio Mfg. Co., 1167 Bedford Ave., Brooklyn, N. Y.  
 Fischer & Co., G. H., 2604 Myrtle Ave., Glendale, N. Y.  
 Foote Radio Corp., 1609 Summer St., Philadelphia, Pa. "Coast Coil"  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 General Coil Co., 25 Sterling St., Weymouth, Mass.  
 General Mfg. Co., 6637 Cottage Grove Ave., Chicago, Ill. "Gen-Ral"

Gen-Ral—see General Mfg. Co.  
 Globe Radio Equipment Co., 217 W. 125th St., New York, N. Y.  
 Goodman, L. W., 436 Forrest Ave., Drexel Hill, Pa.  
 Hammarlund Mfg. Co., 424-38 W. 33d St., New York, N. Y.  
 Harkness Radio Corp., Kenneth, 727 Frelinghuysen Ave., Newark, N. J.  
 Haydon & Haydon, 73 Warren St., New York, N. Y.  
 Imperial Electric Mfg. Co., 58 Columbia St., Newark, N. J. "Air-Trol"  
 Ion Radio Corp., 5 Hudson St., New York, N. Y.  
 Ireland, A. E., 27 W. Elmwood Ave., Sharon, Pa. "Wonder"  
 Irwin Radio Laboratories, 1419 W. Eighth St., Los Angeles, Cal.  
 Jones Radio Co., 384 Monroe St., Brooklyn, N. Y.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Klingshafer Bros., 126 N. 52d St., Philadelphia, Pa.  
 Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn. "Elkay"  
 Lee Electric & Mfg. Co., 220 Eighth St., San Francisco, Cal. "Lemco"  
 Lemco—see Lee Electric & Mfg. Co.  
 Lincoln Radio Corp., 151 W. 28th St., New York, N. Y.  
 Lopez—see Radio Engineering Laboratories  
 McConnell Cable & Specialty Co., 424 S. Clinton St., Chicago, Ill.  
 Majestic Radio Sales & Service Co., 713 Race St., Philadelphia, Pa.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Mazdadayne"  
 Mazdadayne—see Mazda Radio Mfg. Co.  
 Melocoupler—see Robertson-Davis Co.  
 Micro-Coupler—see Simplex Radio Devices  
 Millerradio—see National Radio Co.  
 Munzlg Radio Co., 1017 Tribune St., Redlands, Cal.  
 National Co., 110 Brookline St., Cambridge, Mass.  
 National Radio Co., Forest Lake, Minn. "Millerradio"  
 Neutroflex—see Tanner Co.  
 New York Coil Co., 338 Pearl St., New York, N. Y.  
 Pall Mall—see Essex Mfg. Co.  
 Perfection Radio Mfg. Co., 24th & Race Sts., Philadelphia, Pa.  
 Precision Coil Co., 209 Centre St., New York, N. Y.  
 Radio Engineering Laboratories, 27 Thames St., New York, N. Y. "Lopez"  
 Radio Requirements Co., Fifth & Market Sts., Philadelphia, Pa. "Thurman"  
 Radio Units, Inc., 1316 S. First Ave., Maywood, Ill. "Andrews"  
 Radjo—see Sharp Spark Plug Co.  
 Radjo—see Electric City Novelty & Mfg. Co.  
 Rasia—see Davidson Radio Corp.  
 Rector & Co., F. J., Pendleton, N. J.  
 Robertson-Davis Co., 412-20 Orleans St., Chicago, Ill. "Melocoupler"  
 Royco—see Royal Radio Products Co.  
 Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa. "Acorn" "Royco"  
 S-M—see Silver-Marshall  
 Sharp Spark Plug Co., Bennett St., Wellington, Ohio. "Radjo"  
 Sickles Co., F. W., 130 Union St., Springfield, Mass.  
 Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
 Simplex Radio Co., Rector & Main Sts., Philadelphia, Pa.  
**Simplex Radio Devices**, 231 Mulberry St., Newark, N. J. "Micro-Coupler"  
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 Star Radio Products Co., 711 S. Dearborn St., Chicago, Ill.  
 Superior Coil Co., Harwichpoint, Mass.  
 T-R-S—see Tidmarsh's Radio Supply

Tanner Co., C. D., 4154 S. Vermont Ave., Los Angeles, Cal. "Neutroflex"  
 Thurman—see Radio Requirements Co.  
 Tidmarsh's Radio Supply, 1535 South A St., Elwood, Ind. "T-R-S"  
 Tun-A-Far—see Waage, A. H.  
 Universal Winding Co., 1655 Elmwood Ave., Providence, R. I.  
 Un-X-Ld—see Forman & Co.  
 Veria—see Electrad, Inc.  
 Victoreen—see Walker Co.  
 Voisometer Mfg. Co., 201 Smith Ave., Kirkwood, Mo.  
 Waage, A. H., 112 Chambers St., New York, N. Y. "Tun-A-Far"  
 Walker Co., George W., 6524 Carnegie Ave., Cleveland, Ohio. "Victoreen"  
 Welty & Co., Wm. A., 36 S. State St., Chicago, Ill.  
 Wolke Electric Co., 618 S. First St., Louisville, Ky.  
 Wonder—see Ireland, A. E.

**TUNING COIL SLIDERS—**

see Sliders, Tuning Coil

**TUNING COILS—**

see Coils, Inductance  
 also Coils, Slide Tuning

**TUNING DIALS—**

see Dials

**TWIST DRILLS—**

see Drills, Twist

**UNDERGROUND AERIALS—**

see Aerials, Underground

**UNITS, Loud Speaker or Phonograph**

*Single Reproducer Units designed for Loud Speakers or for Adaption to Phonographs; For Complete Loud Speakers—see Speakers, Loud*  
 Accuratone—see Mydar Radio Co.  
 Acousticcola—see Trimm Radio Mfg. Co.  
 Airex Mfg. Co., 1259 Main St., Seattle, Wash.  
 Ajax—see Philmore Mfg. Co.  
 Altone Mfg. Co., 1259 Main St., Seattle, Wash.  
 American Electric Co., 6401 S. State St., Chicago, Ill. "Burns" "Victor" "Hi-Lo"  
 Amplion Corp. of America, 280 Madison Ave., New York, N. Y.  
 Ample-Tone—see Union Fabric Co.  
 Appleby Radio Mfg. Co., 250 N. Juniper St., Philadelphia, Pa.  
 Atwater Kent Mfg. Co., 4700 Wissahickon Ave., Philadelphia, Pa.  
 Baldwin, Inc., Nathaniel, 3474 S. 23d East St., Salt Lake City, Utah.  
 Baritone Mfg. Co., 844 W. Jackson Blvd., Chicago, Ill.  
 Belltone Radio Mfg. Corp., 81 Crosby St., New York, N. Y.  
 Bemco Mfg. Co., 243 W. 55th St., New York, N. Y. "Tripletone"  
 Best Mfg. Co., 1200 Grove St., Irvington, N. J.  
 Bisby Mfg. Co., 54 Warren St., New York, N. Y.  
 Blood Tone Arm Co., 28th & Garfield Sts., Bay City, Mich.  
 Brandes—see Federal-Brandes, Inc.  
 Burndept Wireless Corp. of America, 52 Warren St., New York, N. Y. "Ethovox"  
 Burns—see American Electric Co.  
 California Nightingale — see Stentorfone Co.  
 Colonial Radio Corp., East Ave. & Tenth St., Long Island City, N. Y.

## UNITS, Loud Speakers on Phonograph Continued

Columbia Phonograph Co., 1819 Broadway, New York, N. Y.  
Cook, James J., 503 S. Pulaski St., Baltimore, Md.  
Dictograph Products Corp., 220 W. 42nd St., New York, N. Y.  
Dietzen, Inc., 71 Cortlandt St., New York, N. Y.  
Dulce-Tone—see General Industries Co.  
Dymac—see Electrical Products Mfg. Co.  
Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I. "Dymac"  
Empire Electrical Products Co., 132 Greene St., New York, N. Y.  
Ethovox—see Burndept Wireless Corp. of America.  
Federal-Brandes, Inc., Woolworth Bldg., New York, N. Y. "Brandes"  
Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
Friedlander-Kopple Radio Service, 149 Church St., New York, N. Y. "Welbilt"  
Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
General Industries Co., 304 Taylor St., Elyria Ohio. "Dulce-Tone"  
Giant—see Trimm Radio Mfg. Co.  
Globe Phone Mfg. Co., Reading, Mass.  
Hamburg Bros., 450-52 Seventh Ave., Pittsburgh, Pa. "Pennsylvania"  
Hartman Electrical Mfg. Co., Mansfield, Ohio  
Hi-Lo—see American Electric Co.  
Holliday Radio Co., Dooly Bldg., Salt Lake City, Utah  
Holtzer-Cabot Electric Co., 125 Amory St., Boston, Mass.  
International Radio Corp., Pacific Electric Bldg., Los Angeles, Cal. "Rotofor"  
Jewel Phonoparts Co., 150 Whiting St., Chicago, Ill.  
Jodra Mfg. Co., 61 Pier One, Seattle, Wash.  
K-E—see Kirkman Engineering Corp.  
Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
Kirkman Engineering Corp., 484 Broome St., New York, N. Y. "K-E"  
Leader—see Victor Radio Corp.  
Liberty Metal Products Corp., Berea, Ohio  
Little Wonder—see Trimm Radio Mfg. Co.  
Magnavox Co., 2725 E. 14th St., Oakland, Cal.  
Mid West Mfg. Co., 15th & Wabash Aves., Chicago, Ill.  
Mocking Bird—see Morrison Laboratories  
Mohawk Corp. of Illinois, 2222 Diversey Parkway, Chicago, Ill.  
Morrison Laboratories, Lafayette Bldg., Detroit, Mich. "Mocking Bird"  
Mozart-Grand Co., Newark, N. J.  
Mydar Radio Co., 9 Campbell St., Newark, N. J. "Accuratune"  
Operetta—see Victor Radio Corp.  
Pal Radio Corp., 1204 Summit Ave., Jersey City, N. J.  
Parcells & Co., 68 W. Washington St., Chicago, Ill. "Temple"  
Pennsylvania—see Hamburg Bros.  
Perfectone—see Teleradio Engineering Corp.  
Philmore Mfg. Co., 106 Seventh Ave., New York, N. Y. "Ajax"  
Pontico Corp., Telegraph Rd., Pontiac, Mich.  
Potter Tool & Machine Works, 79 E. 130th St., New York, N. Y.  
Presto Machine Products Co., 70 Washington St., Brooklyn, N. Y.  
Radiocelve Mfg. Co., 368 Jelliff Ave., Newark, N. J.  
Radiotive Corp., 5317 21st Ave., Brooklyn, N. Y. "Silken Voice"  
Remo Corp., Meriden, Conn.

Rola Co., 4250 Hollis St., Oakland, Cal.  
Rotofor—see International Radio Corp.  
Royal Electrical Laboratories, 109 Tichenor St., Newark, N. J. "Royalfone"  
Royalfone—see Royal Electrical Laboratories  
Schaeffer Mfg. Co., 226 E. 41st St., Portland, Ore.  
Selector Co., 2005 Sixth Ave., Seattle, Wash.  
Silken Voice—see Radiotive Corp.  
Sonora Phonograph Co., 16 E. 40th St., New York, N. Y.  
Spartan Electric Corp., 348-52 W. 34th St., New York, N. Y.  
Stentorfone Co., 784 Ceres Ave., Los Angeles, Cal. "California Nightingale"  
Stromberg-Carlson Telephone Mfg. Co., 1060 University Ave., Rochester, N. Y.  
Teleradio Engineering Corp., 490 Broome St., New York, N. Y. "Perfectone"  
Temple—see Parcells & Co.  
Tillman Products Co., 187 W. Ninth St., Brooklyn, N. Y.  
Tower Mfg. Corp., 98 Brookline Ave., Boston, Mass.  
Trimm Radio Mfg. Co., 24 S. Clinton St., Chicago, Ill. "Little Wonder" "Giant"  
Tripletone—see Bemco Mfg. Co.  
Union Fabric Co., Housatonic Ave., Derby, Conn. "Ampl-Tone"  
Utah Radio Products Co., 1427 S. Michigan Ave., Chicago, Ill.  
Victor—see American Electric Co.  
Victor Radio Corp., 4317 N. Western Ave., Chicago, Ill. "Leader" "Operetta"  
Cataloged on page.....112  
Welbilt—see Friedlander-Kopple Radio Service  
Western Electric Co., 100 E. 42d St., New York, N. Y.  
White Beauty Electric Co., 4416 N. Western Ave., Chicago, Ill.  
Zeco—see Zisch Engineering Corp.  
Zisch Engineering Corp., 39 Ave. L., Newark, N. J. "Zeco"

## UNITS, RESISTANCE—

see Resistances, Standard Unit

## UNITS, Tuning—

see Tuners and Tuning Coils

## UNMOUNTED CRYSTALS—

see Crystals, Detector

## VACUUM LIGHTNING ARRESTERS—

see Arresters, Indoor Lightning  
also Arresters, Outdoor Lightning

## VACUUM TUBE BASES—

see Bases, Vacuum Tube

## VACUUM TUBE FUSES—

see Fuses, Vacuum Tube

## VACUUM TUBE SETS—

see Sets, Vacuum Tube

## VACUUM TUBE SOCKETS—

see Sockets

## VACUUM TUBES—

see Tubes, Vacuum

## VARIABLE CONDENSERS—

see Condensers, Variable

## VARIABLE GRID-LEAKS—

see Grid-Leaks, Variable

## VARIABLE RESISTANCES—

see Resistances, Variable

## VARIABLE RESISTANCE PHONE PLUGS—

see Plugs, Variable Resistance Phone

## VARIABLE TRANSMITTING INDUCTANCES—

see Inductances, Variable Transmitting

## VARIOCOUPERS

*Two circuit Tuning Coils with Variable Rotor*

Able Tool & Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"  
Aero Products, Inc., 1772 Wilson Ave., Chicago, Ill. "Power-Plus"  
Atec—see Able Tool & Engineering Co.  
Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
Carco—see Carter Mfg. Co.  
Carter Mfg. Co., 1728 Coit Ave., (E. Cleveland) Cleveland, Ohio. "Carco"  
Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.  
Columbia Radio Corp., 155 N. Union St., Chicago, Ill.  
Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
Doron Bros. Electric Co., 325 N. B St., Hamilton, Ohio  
Eastern Coil Corp., 22 Warren St., New York, N. Y.  
Eisemann Magneto Corp., 165 Broadway, New York, N. Y.  
Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Pall Mall"  
Excelsior Radio Co., 226 Grand St., Brooklyn, N. Y.  
Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
Fischer & Co., G. H., 2604 Myrtle Ave., Glendale, N. Y.  
Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
General Radio Co., 30 State St., Cambridge, Mass.  
Gillfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
Hartman Electrical Mfg. Co., Mansfield, Ohio  
Imperial Electric Mfg. Co., 58 Columbia St., Newark, N. J.  
Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn.  
Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y.  
Marine Radio Mfg. & Electric Co., 1267 St. Nicholas Ave., New York, N. Y.  
Pall-Mall—see Essex Mfg. Co.  
Power-Plus—see Aero Products, Inc.  
Premier Electric Co., 3805 Ravenswood Ave., Chicago, Ill.  
R.P.C.—see Radio Products Co.  
Radio Products Co., Westport, Conn. "R.P.C."  
Sickles Co., F. W., 130 Union St., Springfield, Mass.  
Silver-Marshall, 870 W. Jackson Blvd., Chicago, Ill. "S-M"  
Simplex Radio Co., Rector & Main Sts., Philadelphia, Pa.  
S-M—see Silver-Marshall

Tridot Electric Co., 16 Hudson St., New York, N. Y.  
 Tune Sharp Radio Equipment Co., 6220 1/2 S. Vermont Ave., Los Angeles, Cal.  
 Un-X-Ld—see Forman & Co.  
 Waterbury Button Co., Waterbury, Conn.  
 WorkRite Mfg. Co., 1812 E. 30th St., Cleveland, Ohio

**VARIOCOUPERS, Hard Rubber—**

see Variocouplers

**VARIOCOUPERS, Molded—**

see Variocouplers

**VARIOCOUPERS, Wooden—**

see Variocouplers

**VARIOMETERS**

*A Stationary and a Movable Coil in series for securing close Variations of Inductance*

Able Tool & Engineering Co., 536 W. Elm St., Chicago, Ill. "Atec"  
 Atec—see Able Tool & Engineering Co.  
 Breco Radio Corp., 687 Courtlandt Ave., New York, N. Y.  
 Carco—see Carter Mfg. Co.  
 Carter Mfg. Co., 1728 Coit Ave. (E. Cleveland), Cleveland, Ohio "Carco"  
 Chelsea Radio Co., 179 Spruce St., Chelsea, Mass.  
 Columbia Radio Corp., 155 N. Union St., Chicago, Ill.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Doron Bros. Electric Co., 325 N. B St., Hamilton, Ohio  
 Eisemann Magneto Corp., 165 Broadway, New York, N. Y.  
 Essex Mfg. Co., 40 Lawrence St., Newark, N. J. "Pall Mall"  
 Federal Radio Corp., 1738 Elmwood Ave., Buffalo, N. Y.  
 Fischer & Co., G. H., 2604 Myrtle Ave., Glendale, N. Y.  
 Forman & Co., 366 Greenwich St., New York, N. Y. "Un-X-Ld"  
 General Radio Co., 30 State St., Cambridge, Mass.  
 Gillfillan Bros., 1815 W. 16th St., Los Angeles, Cal.  
 Goodrich Rubber Co., B. F., 500 S. Main St., Akron, Ohio  
 Imperial Electric Mfg. Co., 58 Columbia St., Newark, N. J.  
 Jones Radio Co., 384 Monroe St., Brooklyn, N. Y.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill.  
 Langbein-Kaufman Radio Co., 511 Chapel St., New Haven, Conn.  
 Manhattan Electrical Supply Co., 17 Park Pl., New York, N. Y.  
 Morse Co., Frank W., 289 Congress St., Boston, Mass.  
 Pall Mall—see Essex Mfg. Co.  
 R.P.C.—see Radio Products Co.  
 Radio Products Co., Westport, Conn. "R.P.C."  
 Sickles Co., F. W., 130 Union St., Springfield, Mass.  
 Tune Sharp Radio Equipment Co., 6220 1/2 S. Vermont Ave., Los Angeles, Cal.  
 Un-X-Ld—see Forman & Co.  
 Waterbury Button Co., Waterbury, Conn.  
 WorkRite Mfg. Co., 1812 E. 30th St., Cleveland, Ohio

**VARIOMETERS, Hard Rubber—**

see Variometers

**VARIOMETERS, Molded—**

see Variometers

**VARIOMETERS, Split—**

see Variometers

**VARIOMETERS, Wooden—**

see Variometers

**VARNISH, Finishing—**

see Lacquers, Crystallizing

**VARNISH, Insulating**

*A thin transparent Compound for impregnating Coils, Windings, etc.*

Amdivar—see American Di-Electrics, Ltd.  
 American Di-Electrics, Ltd., 466 E. Seventh St., Brooklyn, N. Y. "Amdivar"  
 Bakelite Corp., 247 Park Ave., New York, N. Y.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 California Paint Co., 11th, 12th & Pine Sts., Oakland, Cal.  
 Calman & Co., Emil, 110 William St., New York, N. Y.  
 Czukur, Josef, 34 Easton Ave., New Brunswick, N. J. "Radiapara"  
 Daniel Specialty Co., 5232 Melrose Ave., Los Angeles, Cal.  
 Dielectric Mfg. Co., 224 S. Vandeventer Ave., St. Louis, Mo.  
 G. E.—see General Electric Co.  
 General Electric Co. (Merchandising Department), Bridgeport, Conn. "G. E."  
 Goldmark Co., James, 83 Warren St., New York, N. Y. (Gen. Sales Agents for New England Electrical Works, Lisbon, N. H.)  
 Impervious Varnish Co., Pittsburgh, Pa.  
 Irvington Varnish & Insulator Co., Tremont Terrace, Irvington, N. J.  
 Kellogg Switchboard & Supply Co., 1066 W. Adams St., Chicago, Ill. "Wilbur."  
 Mitchell-Rand Mfg. Co., 18 Vesey St., New York, N. Y.  
 New England Electrical Works—see Goldmark Co.  
 Radiapara—see Czukur, Josef  
 Red Triangle—see Shellac Co. of New York  
 Ruberoid Co., 95 Madison Ave., New York, N. Y.  
 hellac Co. of New York, Woolworth Bldg., New York, N. Y. "Red Triangle"  
 Standard Varnish Works, 443 Fourth Ave., New York, N. Y.  
 Sterling Varnish Co., Fulton Bldg., Pittsburgh, Pa.  
 Walker Mfg. Co., 247 Scott St., San Francisco, Cal.  
 Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.  
 Wilbur—see Kellogg Switchboard & Supply Co.

**VARNISHED TUBING—**

see Tubing, Spaghetti

**VERNIER ATTACHMENTS—**

see Attachments, Vernier

**VERNIER BATTERY RHEOSTATS—**

see Rheostats, Vernier Battery

**VERNIER CONDENSERS—**

see Condensers, Variable

**VERNIER DIALS—**

see Dials, Vernier

**VIBRATOR RECTIFIERS—**

see Rectifiers, Battery Charging Vibrator

**VISES, Bench—**

see Vises, Machinist and Bench

**VISES, Hand and Pin—**

Braunsdorf-Mueller Co., 205 Madison St., Elizabeth, N. J.  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Kilborn & Bishop Co., 196 Chapel St., New Haven, Conn.  
 Lowell Wrench Co., 54 Commercial St., Worcester, Mass.  
 Millers Falls Co., Millers Falls, Mass.  
 Starrett Co., L. S., 165 Crescent St., Athol, Mass.  
 Stearns & Co., E. C., Oneida St., Syracuse, N. Y.  
 Stevens Co., 375 Broadway, New York, N. Y.

**VISES, Machinist and Bench**

Ace—see Homeyer Mfg. Co.  
 Barbour-Stockwell Co., 205 Broadway, Cambridgeport, Mass.  
 Bonney Forge & Tool Works, Allentown, Pa. "Lehigh"  
 Columbian Vise & Mfg. Co., Cleveland, Ohio  
 Erie Tool Works, 11th & French Sts., Erie, Pa.  
 Fisher & Norris, 37 Fair St., Trenton, N. J.  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Hollands Mfg. Co., 348 E. 18th St., Erie, Pa.  
 Homeyer Mfg. Co., 1385 E. 17th St., Cleveland, Ohio. "Ace"  
 Lehigh—see Bonney Forge & Tool Works  
 New Britain Tool Mfg. Co., 10 Harvard St., New Britain, Conn.  
 North Bros. Mfg. Co., American St. & Lehigh Ave., Philadelphia, Pa. "Yankee"  
 Parker Co., Charles 48 Elm St., Meriden, Conn.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Pexto—see Peck, Stow & Wilcox Co.  
 Prentiss Vise Co., 110 Lafayette St., New York, N. Y.  
 Radiovise—see Rock Island Mfg. Co.  
 Reed Mfg. Co., Erie, Pa.  
 Rock Island Mfg. Co., Rock Island, Ill. "Radiovise"  
 Starrett Co., L. S. 165 Crescent St., Athol, Mass.  
 Stearns & Co., E. C., Oneida St., Syracuse, N. Y.  
 Yankee—see North Bros. Mfg. Co.

**VISES, Pin—**

see Vises, Hand and Pin

**VOLTAMMETERS—**

see Ammeters and Voltmeters

**VOLTMETER SWITCHES, MULTIPOINT—**

see Switches, Multipoint Meter

**VOLTMETERS, Filament—**

see Ammeters and Voltmeters, Panel



**VOLTMETERS, Panel Type—**

see Ammeters and Voltmeters, Panel

**VOLTMETERS, Plate—**

see Ammeters and Voltmeters, Panel

**VOLTMETERS, Pocket—**

see Ammeters and Voltmeters, Pocket

**VULCANIZED FIBRE—**

see Fibre, Vulcanized

**WALL JACKS—**

see Jacks, Wall Receptacle

**WASHERS, Brass and Copper**

Arrow Hardware Corp., 27-29 Vestry St., New York, N. Y.

Bridgeport Brass Co., Bridgeport, Conn.

Chicago Nut Mfg. Co., 2513 W. Cullerton St., Chicago, Ill.

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Cleveland Wrought Products Co., West 58th St. South of Denison Ave., Cleveland, Ohio

Everitt Co., 265 Franklin St., Boston, Mass.

Grammes &amp; Sons, L. F., Allentown, Pa.

H &amp; H—see Hart &amp; Hegeman Mfg. Co.

Hart &amp; Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn. "H &amp; H"

Kales Stamping Co., 1661 W. Lafayette Blvd., Detroit, Mich.

Massachusetts Machine Shop, 817 Albany St., Boston, Mass.

New England Screw Co., 44 Farnsworth St., Boston, Mass.

Pheoil Mfg. Co., 5710 Roosevelt Rd., Chicago, Ill.

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Quadruga Mfg. Co., 213 W. Grand Ave., Chicago, Ill.

Rome Brass &amp; Copper Co., Bouck St., Rome, N. Y.

Steele &amp; Johnson Mfg. Co., 779 S. Main St., Waterbury, Conn.

Stimpson Co., Edwin B., 74 Franklin Ave., Brooklyn, N. Y.

**WASHERS, Copper—**

see Washers, Brass and Copper

**WASHERS, Felt**

American Felt Co., 211 Congress St., Boston, Mass.

Booth Felt Co., 463 19th St., Brooklyn, N. Y.

Brawley, T. R., 275 20th St., Brooklyn, N. Y.

Continental Felt Co., 64 E. 11th St., New York, N. Y.

Monarch Felt Works, 39 York St., Brooklyn, N. Y.

Western Felt Works, 4031 Ogden Ave., Chicago, Ill.

**WASHERS, Lock**

Keystone—see Positive Lock Washer Co.

National Lock Washer Co., 40 Hermon St., Newark, N. J.

National Umbrella Frame Co., 75 Murray St., New York, N. Y.

Positive Lock Washer Co., Newark, N. J. "Keystone"

Quadruga Mfg. Co., 213 W. Grand Ave., Chicago, Ill.

Shakeproof Lock Washer Co., 2517 N. Keeler Ave., Chicago, Ill.

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**WASHERS, Mica—**

see Mica, Sheet and Tube

**WAVE FILTERS—**

see Traps, Wave

**WAVE METERS—**

see Meters, Wave

**WAVE TRAPS—**

see Traps, Wave

**WHISKERS, Cat***Small spring-coiled wire for making contact with Crystal Detector*

B-Metal Refining Co.—see Star Crystal Co.

California Radio Minerals, 904 Oak Grove Ave., Burlingame, Cal.

Chamberlin, V. L., 88 N. Saginaw St. Pontiac, Mich.

Cheever Co., William E., 1167 Broad St. Providence, R. I. "Wecco"

Desert Cactus—see T. N. T. Radio Products Co.

Foote Radio Corp., 1609 Summer St. Philadelphia, Pa. "Variotenser"

Gold Medal—see Morris, Walter C.

Hargraves, C. E. &amp; H. T., 1103 Warwick Ave., Lakewood, R. I.

I. X. L.—see U. C. Battery &amp; Electric Co.

Keystone Products Co., 304 Gardenia Ave., Royal Oak, Mich.

Melodian Laboratories, Independence, Mo. Morris, Walter C., 168 Rossiter Ave., Yonkers, N. Y. "Gold Medal"

Parker-Aeolus Corp., 161 Grand St., New York, N. Y.

Star Crystal Co., 525 Woodward Ave., Detroit, Mich. (Sole Distributors for B-Metal Refining Co., Detroit, Mich. "Tri-Cats")

Steinite Laboratories, Radio Bldg., Atchison, Kans.

T. N. T. Radio Products Co., 1344 Fillmore St., San Francisco, Cal. "Desert Cactus"

Tri-Cats—see Star Crystal Co.

U. C. Battery &amp; Electric Co., 2158 University Ave., Berkeley, Cal. "I. X. L."

Variotenser—see Foote Radio Corp.

Wecco—see Cheever Co.

Westville Mfg. Co., 705 Chestnut St., Philadelphia, Pa.

**WINDERS, Coil***Small Portable Hand Machines for use in Coil Winding; for Coil Winding Machines—see Machines, Coil Winding*

Covey-Snedden Co.—see Wireless Electric Co.

Dazey—see Defiance Radio &amp; Electric Co.

Defiance Radio &amp; Electric Co., 1021 S. 12th St., Tacoma, Wash. "Dazey"

Goodell-Pratt Co., Wells St., Greenfield, Mass.

Radio Production Machinery Co., 212 Centre St., New York, N. Y.

See-Ess—see Wireless Electric Co.

Specialty Automatic Machine Co., St. Gerish Ave., Chelsea, Mass.

Wireless Electric Co., 204 Stanwix St., Pittsburgh, Pa. (Sole Distributors for Covey-Snedden Co., Pittsburgh, Pa.) "See Ess"

Wizard Wire Winder Co., 3812 Central Ave., Los Angeles, Cal.

**WINDING FORMS, Coil—**

see Forms, Coil Winding

**WINDING JIGS, Coil—**

see Jigs, Coil Winding

**WINDING MACHINES—**

see Machines, Coil Winding

**WINDINGS, Coil***Completely wound Coils used in Transformers, Generators, etc.*

A-P—see Acme Products Co.

Acme Products Co., 107 W. Canton St., Boston, Mass. "A-P"

Acme Wire Co., Dixwell Ave., New Haven, Conn.

Auman, F. W., 1218 Franklin Ave., Wilkinsburg, Pa.

Automotive &amp; Radio Mfg. Corp., 451 Greenwich St., New York, N. Y.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Collton Electric Mfg. Co., Easton, Pa.

Dudlo Mfg. Corp., Fort Wayne, Ind.

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Eastern Coil Corp., 22 Warren St., New York, N. Y.

Eastern Electric &amp; Mfg. Co., 140 Chestnut St., Providence, R. I.

Easton Coil Co., Centre &amp; Mauch Chunk Sts., Easton, Pa.

Electrical Products Mfg. Co., 69 Sprague St., Providence, R. I.

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Excelsior Radio Co., 226 Grand St., Brooklyn, N. Y.

Falkkill Radio &amp; Electrical Corp., 48 S. Water St., Poughkeepsie, N. Y.

General Coil Co., 25 Sterling St., Weymouth, Mass.

Globe Phone Mfg. Co., Reading, Mass.

Jaeger-Carlson Mfg. Co., 161 Jamaica Ave., Brooklyn, N. Y.

Kenyon Mfg. Co., 2360 Amsterdam Ave., New York, N. Y.

Robertson-Davis Co., 412-20 Orleans St., Chicago, Ill.

Royal Radio Products Co., 628 Callowhill St., Philadelphia, Pa.

Transcontinental Coil &amp; Winding Co., 5 Kirk Pl., Newark, N. J.

Universal Winding Co., 1655 Elmwood Ave., Providence, R. I.

Varley Duplex Magnet Co., 15 Exchange Pl., Jersey City, N. J.

Whittier &amp; Dittmar, 1646 Beacon St., Brookline, Mass.

**WINDINGS, Potentiometer and Rheostat***Manufacturers of Resistance Windings*

Fenton, N., 57 Murray St., New York, N. Y.

Perry Wire Works, 280 New Main St., Yonkers, N. Y.

**WIRE, Antenna—**

see Wire, Braided Copper

also Wire, Copper Clad Steel

also Wire, Enameled Copper

also Wire, Flat or Strip Copper

also Wire, Gold Plated

also Wire, Single Strand Copper

also Wire, Stranded Copper

also Wire, Tubular Copper Antenna

**WIRE, Bare Bus-Bar***Tinned or Plated Round or Square Copper Wire for Use in Wiring Sets; for Insulated Bus-bar Wire—see Wire, Insulated Bus-bar*

Ajax—see Fraser Wire Co.

American Brass Co., Waterbury, Conn. "Anaconda"

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American Steel &amp; Wire Co., 208 S. La Salle St., Chicago, Ill.

Anaconda—see American Brass Co.

Atlantic Insulated Wire &amp; Cable Co., Rome, N. Y.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Chicago Insulated Wire & Mfg. Co., Sycamore, Ill.  
 Cook Plate Co., Edward N., 70 Ship St., Providence, R. I.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
*Cataloged on page.....127*  
 Corwico—see Cornish Wire Co.  
 Doran & Sons, James C., 150 Chestnut St., Providence, R. I.  
 Dudlo Mfg. Corp., Fort Wayne, Ind.  
 Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y. "Ajax"  
 Roebing's Sons Co., John A., S. Broad & Canal Sts., Trenton, N. J.

**WIRE, Bare Resistance**

*For use in Rheostats and Current Limiting Devices*

Advance—see Driver-Harris Co.  
 Alloy Metal Co., Moore, Pa.  
 American Brass Co., Waterbury, Conn. "Anaconda"  
*Cataloged on page.....40*  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Anaconda—see American Brass Co.  
 Bradford, Kyle & Co., Plymouth, Mass.  
 Chromel—see Hoskins Mfg. Co.  
 Climax—see Driver-Harris Co.  
 Copel—see Hoskins Mfg. Co.  
 Cupron—see Gilby Wire Co.  
 Driver-Harris Co., Harrison, N. J. "Nichrome"  
 "Climax" "Advance"  
 Gilby Wire Co., 123 Jackson St., Newark, N. J. "Cupron" "Solar" "Tophet"  
 Hoskins Mfg. Co., 4435 Lawton St., Detroit, Mich. "Chromel" "Copel"  
 Nichrome—see Driver-Harris Co.  
 Novar—see Standard Alloy Wire Co.  
 Perry Wire Works, 280 New Main St., Yonkers, N. Y.  
 Solar—see Gilby Wire Co.  
 Standard Alloy Wire Co., 863 Sheridan Ave., Elizabeth, N. J. "Novar"  
 Super-Insulated Wire Co., Plymouth, Mass.  
 Tophet—see Gilby Wire Co.

**WIRE, Bell**

American Brass Co., Waterbury, Conn.  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Chicago Insulated Wire & Mfg. Co., Sycamore, Ill.  
 Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"  
 Corwico—see Cornish Wire Co.  
 Davis-Jones Insulated Wire Co., Pawtucket, R. I.  
 Eagle—see Marion Insulated Wire & Rubber Co.  
 Hazard Mfg. Co., Wilkes-Barre, Pa.  
 Holyoke Co., 621 Broadway, New York, N. Y.  
 Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"  
 Roebing's Sons Co., John A., S. Broad & Canal Sts., Trenton, N. J.  
 Super-Insulated Wire Co., Plymouth, Mass.

**WIRE, Braided Copper Antenna**

*Specially woven Wire for Antenna*

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Amplitone—see Shinn Mfg. Co.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Bosworth Line & Wire Co., East Homer, N. Y.

**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
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 Corwico—see Cornish Wire Co.  
**Dudlo Mfg. Corp., Fort Wayne, Ind.**  
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 Frost, Inc., Herbert H., 160 N. La Salle St., Chicago, Ill.  
 Raco—see Ross Wire Co.  
 Ross Wire Co., 69 Bath St., Providence, R. I. "Raco"  
 Shinn Mfg. Co., W. C., 2024 N. Racine Ave., Chicago, Ill. "Amplitone"  
 Springfield Wire & Tinsel Co., 67 Taylor St., Springfield, Mass.

**WIRE, Bus—**

see Wire, Bare Bus-Bar  
 also Wire, Insulated Bus-Bar

**WIRE CLIPS—**

see Clips, Connecting

**WIRE, Copper Clad Steel Antenna**

*Steel Wire with Copper Coating used for Antenna*

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Aristos—see Copperweld Steel Co.  
 C.C.C.—see Standard Underground Cable Co.  
 Copperweld Steel Co., Rankin, Pa. "Aristos"  
 Standard Underground Cable Co., 17th & Pike Sts., Pittsburgh, Pa. "C.C.C."

**WIRE, Cotton Covered Enameled Magnet—**

see Wire, Enameled Magnet

**WIRE, Cotton or Silk Covered Magnet**

*Silk or Cotton Covered Wire used for Coils and Field Windings*

Amelectric—see American Electrical Works  
 American Electrical Works, Phillipsdale, R. I. "Amelectric"  
 American Enameled Magnet Wire Co., Muskegon, Mich.  
 American Insulated Wire & Cable Co., 954 W. 21st St., Chicago, Ill.  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Ansonia Electrical Co., 63 Main St., Ansonia, Conn.  
 Atlantic Insulated Wire & Cable Co., Rome, N. Y.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Bradford, Kyle & Co., Plymouth, Mass.  
 Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"  
*Cataloged on page.....127*  
 Corwico—see Cornish Wire Co.  
 Dudlo Mfg. Corp., Fort Wayne, Ind.  
*Cataloged on page.....126*  
 Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y.  
 Goldmark Co., James, 83 Warren St., New York, N. Y. (Gen. Sales Agents for New England Electrical Works)  
 Hazard Mfg. Co., Wilkes-Barre, Pa.  
 Holyoke Co., 621 Broadway, New York, N. Y.  
 Maring Wire Co., W. Western Ave., Muskegon, Mich.  
 Massachusetts-Electric Mfg. Co., 11 Mar- gin St., West Lynn, Mass.  
 New England Electrical Works—see Gold- mark Co.  
 Philadelphia Insulated Wire Co., 200 N. Third St., Philadelphia, Pa.  
 Roebing's Sons, John A., S. Broad & Canal Sts., Trenton, N. J.  
 Rome Electrical Co., Rome, N. Y.

Rome Wire Co., Rome, N. Y.  
 Standard Underground Cable Co., 17th & Pike Sts., Pittsburgh, Pa.  
 Sterling Insulated Wire Co., 519 Main St., Pawtucket, R. I.  
 Strand & Sweet Mfg. Co., Winsted, Conn. "Sweetstrand"  
 Super-Insulated Wire Co., Plymouth, Mass.  
 Sweetstrand—see Strand & Sweet Mfg. Co.  
 Wheeler Insulated Wire Co., 378 Wash- ington Ave., Bridgeport, Conn.

**WIRE, Covered Stranded**

**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
*Cataloged on page.....127*  
 Corwico—see Cornish Wire Co.  
 Runzel-Lenz Electric Mfg. Co., 1751 N. Western Ave., Chicago, Ill.

**WIRE, Covered Stranded Enameled**

*Individually Enameled Copper Strands, Cotton or Silk Covered; for Stranded Enameled Antenna Wire—see Wire, Enameled Copper Antenna*

Acme Wire Co., Dixwell Ave., New Haven, Conn.  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Bradford, Kyle & Co., Plymouth, Mass.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
*Cataloged on page.....127*  
 Corwico—see Cornish Wire Co.  
**Dudlo Mfg. Corp., Fort Wayne, Ind.**  
*Cataloged on page.....126*  
 Eagle—see Marion Insulated Wire & Rubber Co.  
 Goldmark Co., James, 83 Warren St., New York, N. Y. (Gen. Sales Agents for New England Electrical Works, Lisbon, N. H.)  
 Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"  
 New England Electrical Works—see Gold- mark Co.  
 Raco—see Ross Wire Co.  
 Roebing's Sons, John A., S. Broad & Canal Sts., Trenton, N. J.  
 Ross Wire Co., 69 Bath St., Providence, R. I. "Raco"  
 Super-Insulated Wire Co., Plymouth, Mass.

**WIRE, Enameled Copper Antenna**

Acme Wire Co., Dixwell Ave., New Haven, Conn.  
 AirTram—see Radio-Electric Mfg. Co.  
 American Insulated Wire & Cable Co., 954 W. 21st St., Chicago, Ill.  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Ansonia Electrical Co., 63 Main St., An- sonia, Conn.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill. "Beldenamel"  
 Beldenamel—see Belden Mfg. Co.  
 Bosworth Line & Wire Co., East Homer, N. Y.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
*Cataloged on page.....127*  
 Corwico—see Cornish Wire Co.  
**Dudlo Mfg. Corp., Fort Wayne, Ind.**  
*Cataloged on page.....126*  
 Enam-Wave—see Ross Wire Co.  
 Raco—see Ross Wire Co.  
 Radio-Electric Mfg. Co., 442 Clinton Ave., Newark, N. J. "AirTram"  
 Revolute Wire Co., Hastings, N. Y.  
 Roebing's Sons Co., John A., S. Broad & Canal Sts., Trenton, N. J.  
 Ross Wire Co., 69 Bath St., Providence, R. I. "Raco" "Enam-Wave"

**WIRE, Enameled Magnet**

*Solid Annealed Copper Conductor Enameled, Bare, or Cotton or Silk Covered Enameled Wire; for Stranded Enameled Cotton or Silk Covered Wire, see Wire, Covered Stranded Enameled*

Acme Wire Co., Dixwell Ave., New Haven, Conn. "Enamelite"

Allied Magnet Wire Corp., Senate Ave. at Merrill St., Indianapolis, Ind.

Amelectric — see American Electrical Works

American Electrical Works, Phillipsdale, R. I. "Amelectric"

American Enameled Magnet Wire Co., Muskegon, Mich.

American Insulated Wire & Cable Co., 954 W. 21st St., Chicago, Ill.

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.

Ansonia Electrical Co., 63 Main St., Ansonia, Conn.

Beldenamel—see Belden Mfg. Co.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill. "Beldenamel"

Bradford & Kyle, Plymouth, Mass.

Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"

Cataloged on page.....127

Corwico—see Cornish Wire Co.

Dudlo Mfg. Corp., Fort Wayne, Ind. Cataloged on page.....126

Enamelite—see Acme Wire Co.

Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y.

Goldmark Co., James, 83 Warren St., New York, N. Y. (Gen. Sales Agents for New England Electrical Works)

Maring Wire Co., W. Western Ave., Muskegon, Mich.

Massachusetts-Electric Mfg. Co., 11 Marginal St., West Lynn, Mass.

New England Electrical Works—see Goldmark Co.

Philadelphia Insulated Wire Co., 200 N. Third St., Philadelphia, Pa.

Roebing's Sons, John A., S. Broad & Canal Sts., Trenton, N. J.

Rome Electrical Co., Rome, N. Y.

Rome Wire Co., Rome, N. Y.

Strand & Sweet Mfg. Co., Winsted, Conn. "Sweetstrand"

Super-Insulated Wire Co., Plymouth, Mass.

Sweetstrand—see Strand & Sweet Mfg. Co.

Wheeler Insulated Wire Co., 378 Washington Ave., Bridgeport, Conn.

Wirt—see Goldmark Co.

**WIRE, Flat or Strip Copper Antenna**

*Special Ribbon Antenna Wire*

American Display Co., 200 E. First St., Dayton, Ohio

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.

Baltimore Brass Co., 1204 Wicomico St., Baltimore, Md.

Consolidated Wire & Associated Corp., 430 S. Green St., Chicago, Ill.

Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"

Corwico—see Cornish Wire Co.

Raco—see Ross Wire Co.

Ross Wire Co., 69 Bath St., Providence, R. I. "Raco"

**WIRE, Gold Plated Antenna**

*Special Antenna Wire with Gold Plated Surface*

American Luminous Products Co., 320 Marbisa Ave., Huntington Park, Cal. "Gosilco"

Gold Wave—see Luxem & Davis Mfg. Co.

Goldenrod—see Imperial Radio Corp.

Gosilco—see American Luminous Products Co.

Imperial Radio Corp., 6 E. Lake St., Chicago, Ill. "Goldenrod"

Luxem & Davis Mfg. Co., 6229 Broadway, Chicago, Ill. "Gold Wave"

**WIRE, Ground—**

see Wire, Rubber Covered and Braided

**WIRE, Insulated—**

see Wire, Bell

also Wire, Cotton or Silk Covered Magnet

also Wire, Rubber Covered and Braided also Wire, Enameled Magnet

**WIRE, Insulated Bus-Bar**

*Solid or stranded insulated wire especially prepared for use in wiring radio sets; for Bare Bus-Bar Wire—see Wire, Bare Bus-Bar*

Acme Wire Co., Dixwell Ave., New Haven, Conn. "Celatsite"

Air Tram—see Radio-Electric Mfg. Co.

Bassett Metal Goods Co., 9 Bridge St., Derby, Conn.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Celatsite—see Acme Wire Co.

Consolidated Wire & Associated Corp., 430 S. Green St., Chicago, Ill.

Cornish Wire Co., 30 Church St., New York, N. Y. "Flexibus"

Cataloged on page.....127

DeJure Products Co., 199 Lafayette St., New York, N. Y.

Flexibus—see Cornish Wire Co.

Radio-Electric Mfg. Co., 442 Clinton Ave., Newark, N. J. "Air Tram"

Runzel-Lenz Electric Mfg. Co., 1751 N. Western Ave., Chicago, Ill.

**WIRE, Insulated Resistance—**

see Wire, Bare Resistance

**WIRE, Lead-in—**

see Wire, Rubber Covered

**WIRE, Litz—**

see Wire, Covered, Stranded, Enameled

**WIRE, Magnet—**

see Wire, Cotton or Silk Covered Magnet

also Wire, Enameled Magnet

**WIRE, Platinum—**

see Platinum

**WIRE, Resistance—**

see Wire, Bare Resistance

**WIRE, Rheostat—**

see Wire, Bare Resistance

**WIRE, Rubber Covered**

*Solid and Stranded copper conductor Rubber Covered; for Rubber Covered and Braided Wire—see Wire, Rubber Covered and Braided*

Air Tram—see Radio-Electric Mfg. Co.

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill. "Americore"

Americore—see American Steel & Wire Co.

Boston Insulated Wire & Cable Co., 65 Bay St., Boston, Mass.

Eagle—see Marion Insulated Wire & Rubber Co.

Goodrich-Lenhardt Mfg. Co., Hamburg, Pa.

Hazard Mfg. Co., Wilkes-Barre, Pa.

Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"

Packard Electric Co., Warren, Ohio. Cataloged on pages.....128 and 129

Radio-Electric Mfg. Co., 442 Clinton Ave., Newark, N. J. "Air Tram"

Roebing's Sons, John A., S. Broad & Canal Sts., Trenton, N. J.

Rome Wire Co., Rome, N. Y.

Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass. "Tirex"

Tirex—see Simplex Wire & Cable Co.

**WIRE, Rubber Covered and Braided**

*Solid and Stranded Copper Conductor Rubber Covered and Cotton Braided*

A-A Wire Co., 110 E. 42d St., New York, N. Y.

Amelectric — see American Electrical Works.

American Brass Co., Waterbury, Conn.

American Electrical Works, Phillipsdale, R. I. "Amelectric"

American Insulated Wire & Cable Co., 954 W. 21st St., Chicago, Ill.

American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill. "Americore"

"Amerite"

Americore—see American Steel & Wire Co.

Amerite—see American Steel & Wire Co.

Anaconda Copper Mining Co., 25 Broadway, New York, N. Y.

Ansonia Electrical Co., 63 Main St., Ansonia, Conn.

Aristos—see Copperweld Steel Co.

Atlantic Insulated Wire & Cable Co., Rome, N. Y. "Dolphin" "Neptune" "Triton"

Bay State Insulated Wire & Cable Co., (Mattapan) Boston, Mass.

Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.

Bishop Wire & Cable Corp., 420 E. 25th St., New York, N. Y.

Boston Insulated Wire & Cable Co., 65 Bay St., Boston, Mass.

Chicago Insulated Wire & Mfg. Co., Sycamore, Ill.

Consolidated Wire & Associated Corp., 430 S. Green St., Chicago, Ill.

Copperweld Steel Co., Rankin, Pa. "Aristos"

Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"

Corwico—see Cornish Wire Co.

Davis-Jones Insulated Wire Co., Pawtucket, R. I.

Detroit Insulated Wire Co., 4561 Wesson Ave., Detroit, Mich.

Dolphin—see Atlantic Insulated Wire & Cable Co.

Eagle—see Marion Insulated Wire & Rubber Co.

Goodrich-Lenhardt Mfg. Co., Hamburg, Pa.

Goodyear Rubber Insulating Co.—see Graybar Electric Co.

Graybar Electric Co., New York, N. Y. (Sole Distributors for Goodyear Rubber Insulating Co., New York, N. Y. "Grico" also Whitney Blake Co., New Haven, Conn. "WB")

Grico—see Graybar Electric Co.

Grimshaw—see New York Insulated Wire Co.

Habirshaw Cable & Wire Corp., 10 E. 43d St., New York, N. Y.

Hazard Mfg. Co., Wilkes-Barre, Pa. "Keystone"

Illinois Wire & Cable Co., Sycamore, Ill.

Indiana Rubber & Insulated Wire Co., First Ave., Jonesboro, Ind. "Paranite"

Kerite Insulated Wire & Cable Co., 30 Church St., New York, N. Y.

Keystone—see Hazard Mfg. Co.



Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"  
 Monarch Electric & Wire Co., 622 W. Adams St., Chicago, Ill.  
 National Metal Moulding Co., Fulton Bldg., Pittsburgh, Pa.  
 Nehring Electrical Works, De Kalb, Ill.  
 Neptune—see Atlantic Insulated Wire & Cable Co.  
 New York Insulated Wire Co., 114 Liberty St., New York, N. Y. "Grimshaw"  
 Okonite Co., Canal St., Passaic, N. J.  
**Packard Electric Co., Warren, Ohio**  
 Cataloged on pages.....128 and 129  
 Paranite—see Indiana Rubber & Insulated Wire Co.  
 Peerless Insulated Wire & Cable Co., 90 West St., New York, N. Y.  
 Providence Insulated Wire Co., 58 Waldo St., Providence, R. I.  
 Roebing's Sons Co., John A., S. Broad & Canal Sts., Trenton, N. J.  
 Rome Wire Co., Rome, N. Y.  
 Safety Cable Co., 114 Liberty St., New York, N. Y.  
 Safety Insulated Wire & Cable Co., 114 Liberty St., New York, N. Y.  
 Standard Underground Cable Co., 17th & Pike Sts., Pittsburgh, Pa.  
 Triton—see Atlantic Insulated Wire & Cable Co.  
 WB—see Graybar Electric Co.  
 Whitney Blake Co.—see Graybar Electric Co.

**WIRE, Silk Covered Enameled Magnet—**

see Wire, Enameled Magnet

**WIRE, Silver—**

see Platinum

**WIRE, Single Strand Copper Antenna**

*Standard Single Strand Copper Wire for Aerial Use*

AirTram—see Radio-Electric Mfg. Co.  
 Ajax—see Fraser Wire Co.  
**American Brass Co., Waterbury, Conn.**  
 "Anaconda"  
 Cataloged on page.....40  
 American Insulated Wire & Cable Co., 954 W. 21st St., Chicago, Ill.  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Anaconda—see American Brass Co.  
 Ansonia Electrical Co., 63 Main St., Ansonia, Conn.  
 Atlantic Insulated Wire & Cable Co., Rome, N. Y.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
 Consolidated Wire & Associated Corp., 430 S. Green St., Chicago, Ill.  
 Copperweld Steel Co., Rankin, Pa.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
 Cataloged on page.....127  
 Corwico—see Cornish Wire Co.  
**Dudlo Mfg. Corp., Fort Wayne, Ind.**  
 Cataloged on page.....126  
 Eagle—see Marion Insulated Wire & Rubber Co.  
 Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y. "Ajax"  
 Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"  
 Raco—see Ross Wire Co.  
 Radio-Electric Mfg. Co., 442 Clinton Ave., Newark, N. J. "AirTram"  
 Roebing's Sons Co., John A., S. Broad & Canal Sts., Trenton, N. J.  
 Rome Wire Co., Rome, N. Y.

Ross Wire Co., 69 Bath St., Providence, R. I. "Raco"  
 Standard Underground Cable Co., 17th & Pike Sts., Pittsburgh, Pa.  
 Xardell Corp., Burrstone Rd., Utica, N. Y.

**WIRE SKINNERS—**

see Tools, Wire Stripping

**WIRE SOLDER—**

see Solder, Wire and Strip

**WIRE, Special Cat Whisker**

*Special Wire for making Cat Whiskers for use with Crystal Detectors*

Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"  
 Corwico—see Cornish Wire Co.

**WIRE, Stranded Copper Antenna**

*Standard Multiple Stranded Copper Wire for Antenna*

Acme Wire Co., Dixwell Ave., New Haven, Conn.  
 AirTram—see Radio-Electric Mfg. Co.  
 Ajax—see Fraser Wire Co.  
**American Brass Co., Waterbury, Conn.**  
 "Anaconda"  
 Cataloged on page.....40  
 American Steel & Wire Co., 208 S. La Salle St., Chicago, Ill.  
 Anaconda—see American Brass Co.  
 Atlantic Insulated Wire & Cable Co., Rome, N. Y.  
 Belden Mfg. Co., 2320 S. Western Ave., Chicago, Ill.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
 Cataloged on page.....127  
 Corwico—see Cornish Wire Co.  
**Dudlo Mfg. Corp., Fort Wayne, Ind.**  
 Cataloged on page.....126  
 Eagle—see Marion Insulated Wire & Rubber Co.  
 Fraser Wire Co., Russell, 115 Lexington Ave., Maspeth, N. Y. "Ajax"  
 Illinois Wire & Cable Co., Sycamore, Ill.  
 Marion Insulated Wire & Rubber Co., Marion, Ind. "Eagle"  
**Packard Electric Co., Warren, Ohio**  
 Cataloged on pages.....128 and 129  
 Radio-Electric Mfg. Co., 442 Clinton Ave., Newark, N. J. "AirTram"  
 Rome Wire Co., Rome, N. Y.  
 Waco Wire Co., 3605 N. Smedley St., Philadelphia, Pa.

**WIRE STRIPPERS—**

see Tools, Wire Stripping

**WIRE TERMINALS—**

see Terminals, Wire

**WIRE, Tinned Copper Antenna—**

see Wire, Single Strand

**WIRE TIPS—**

see Tips, Cord

**WIRED BASE BOARDS—**

see Boards, Wire Base

**WIRED SUB-PANELS—**

see Boards, Wired Base

**WIRELESS SPARK COILS—**

see Coils, Wireless Spark

**WIRES, Cabled—**

see Wires, Cabled Insulated

**WIRES, Cabled Insulated**

*Several Insulated Wires usually of different colors assembled and covered with a Cotton or Silk Braid; for Multiple Battery Cables—see Cables, Multiple Battery*

Acme Wire Co., Dixwell Ave., New Haven, Conn. "Celatsite"  
 American Fabric Co., 46 Baker St., Providence, R. I.  
 Celatsite—see Acme Wire Co.  
 Consolidated Wire & Associated Corp., 430 S. Green St., Chicago, Ill.  
**Cornish Wire Co., 30 Church St., New York, N. Y. "Corwico"**  
 Cataloged on page.....127  
 Corwico—see Cornish Wire Co.  
**Crescent Braid, Inc., 1012 Eddy St., Providence, R. I. "Premier Blue Ribbon"**  
 Cataloged on page.....44  
 Detroit Insulated Wire Co., 4561 Wesson Ave., Detroit, Mich.  
**Packard Electric Co., Dana Ave., Warren, Ohio**  
 Cataloged on pages.....128 and 129  
 Premier Blue Ribbon—see Crescent Braid, Inc.  
 Runzel-Lenz Electric Mfg. Co., 1751 Northwestern Ave., Chicago, Ill.

**WIRING ASSEMBLIES, Battery—**

see Cables, Multiple Battery

**WIRING CLEATS—**

see Cleats, Porcelain

**WIRING KNOBS—**

see Knobs, Porcelain

**WIRING TUBES—**

see Tubes, Porcelain

**WOOD CABINETS—**

see Cabinets, Wood

**WOOD HORNS—**

see Horns, Wood

**WOOD SCREWS—**

see Screws, Brass Wood

**WOODEN VARIOCOUPERS—**

see Variocouplers

**WOODEN VARIOMETERS—**

see Variometers

**WRENCHES, Jack**

Adams Radio Mfg. Co., 1044 W. Van Buren St., Chicago, Ill.

**WRENCHES, Open End***See also Wrenches, Jack*

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"  
 Kilborn & Bishop Co., 196 Chapel St., New Haven, Conn.  
 Niagara Metal Stamping Corp., 235 Tenth St., Niagara Falls, N. Y. "Premax"  
 Premax—see Niagara Metal Stamping Corp.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Radio Specialty Co., 98 Park Pl., New York, N. Y. "Rasco"  
 Rasco—see Radio Specialty Co.

**WRENCHES, Socket**

Bridgeport Hardware Mfg. Corp., Iranistan Ave., Bridgeport, Conn. "Radio-Lectric"  
 Caufman & Clough Co., 413 E. 13th St., Wilmington, Del. "Reachit"  
 Goodell-Pratt Co., Wells St., Greenfield, Mass.  
 Mazda Radio Mfg. Co., 3405 Perkins Ave., Cleveland, Ohio. "Muzada"  
 Muzada—see Mazda Radio Mfg. Co.  
 New Britain Machine Co., 197 Chestnut St., New Britain, Conn.  
 Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto"  
 Perry-Fay Co., Elyria, Ohio. "Set-O-Six"

Pexto—see Peck, Stow & Wilcox Co.  
 Radio-Lectric—see Bridgeport Hardware Mfg. Corp.  
 Radiogem Corp., 66 W. Broadway, New York, N. Y. "Rageco"  
 Rageco—see Radiogem Corp.  
 Reachit—see Caufman & Clough Co.  
 Set-O-Six—see Perry-Fay Co.  
 Spintite—see Stevens & Co.  
 Stevens & Co., 375 Broadway, New York, N. Y. "Spintite"

**ZINCITE CRYSTALS—**

see Crystals, Detector





