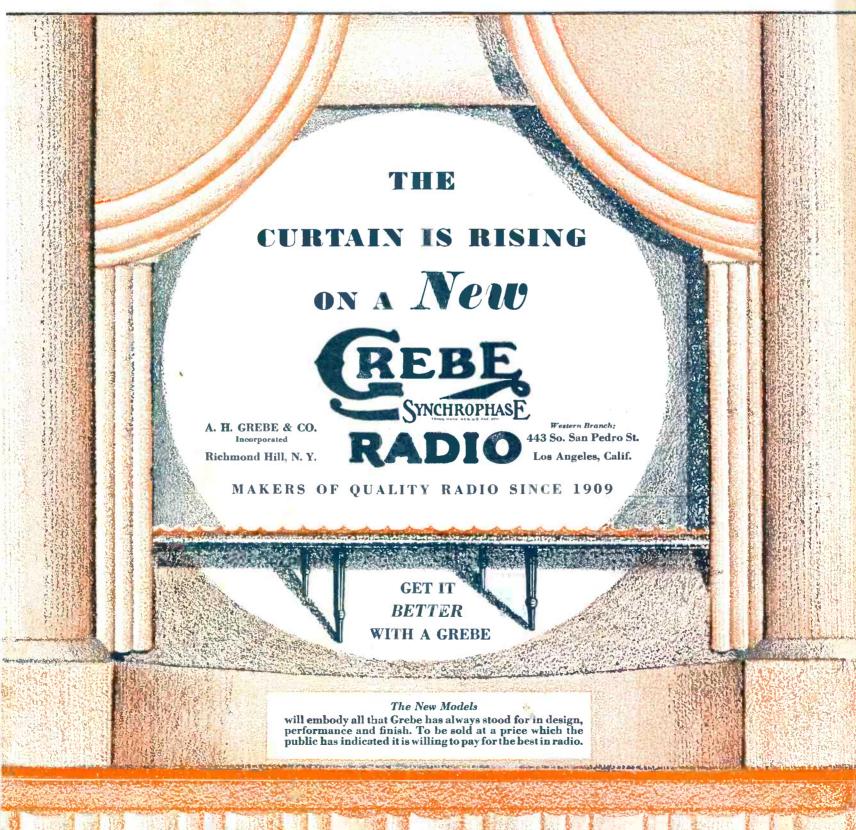


A McGraw-Hill Publication

MARCH, 1929



More than the "last" word -the Future word in DYNAMIC OPERATION



An unprecedented opportunity for MANUFACTURERS

to equip their product with Dynamic operation that is not only far superior in performance to prevailing standards...but lower in cost, easier to install, and *trouble-proof*!

With the INDUCTOR Dynamic Speaker, Farrand has revolutionized Dynamic usage, performance and costs. All heavy, expensive parts found in ordinary Dynamic Speakers are absent.

No FIELD COIL – No IRON COIL HOUSING No Power Transformer – No Dry Rectifier No Condenser

Write at once for full details

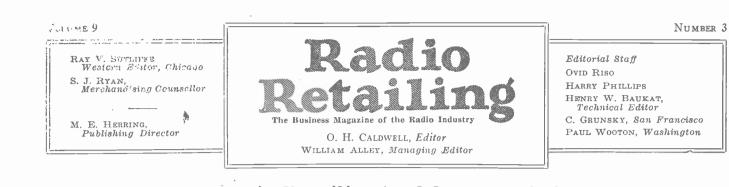
Farrand

INDUCTOR Dynamic Speaker

Radio Retailing, March, 1929. Vol. 9, No. 3. Published monthly. McGraw-Hill Publishing Company, Inc., Tenth Avenue at Thirty-sixth Street, New York, N. Y. \$2 per year, 25 cents per copy. Entered as second-class matter, April 10, 1925, at the Post Office at New York, N. Y., under the Act of March 3, 1879.

FARRAND

MANUFACTURING COMPANY, INC., LONG ISLAND CITY,



Radio Retailing for MARCH, 1929

SALES

,	Specialty Selling—the Answer to Sales Slumps Sales must be made outside the store—Analyz- ing a typical sales campaign and how it works.	44		adio Administration wiews the work of the Radio outlines a program for the
	Guiding the Salesmen Some of the methods used by a Middle West retailer to guide and enthuse the sales staff	47	What Will the Tu Trade?	be Decision Mean to the
	Making Dollars Out of Nickels Automatic phonographs for public places offer new sales opportunity for radio dealers.	63	Decision in the cas vs. RCA expected it have? PROMOTION-	e of independent tube makers this month—what effect, will
	Portable Phonographs for Summer Sales	76		
	"Music to take with you" presents possibilities for increased hot weather volume.		"We Rent Radios" How a West Coast trade-in problem b	merchant helps solve the radio y advertising sets for rent.
	The Best Ideas of the Month	58	DISPLAY_	
	Inaugurating a "clearing house" for the best sales, promotion and management ideas.		The second in a	Combines Light and Action series of articles on how to
	MANAGEMENT—		build attractive wi	1 2
	S. J. Ryan Talks About Stock Control How to start and maintain the "unit control" system is explained by a practical merchandiser.	e "unit control" surroundings are a distinct aid to sal		lealer has found that pleasant
	Now Is the Time to Think About Sidelines	54	EXPORTS-	
	Every radio merchant should have an additional line with a summer peak—here are some to choose from.			Greatest Export Year analyzed country by country coduct.
	THE EDITORS SAY			SERVICE
	There's No More Summer Slump in Broadcasting 41	Dynan	nite!!	Practical Service Methods
	Are Trade Discounts	d set you tak	e in trade is just so much	NEWS
	LIGTUNIOO	L dynamite until you've sold it at a profit. <i>Radio Retailing</i> is now making a nationwide survey of the trade-in problem—how many used sets are being accepted—how much are dealers		New Products for the
				Dealer to Sell This Month in the
				Radio Industry
	Automatic Phono- allowing for	them?—how	is the allowance deter-	News of Jobbers and

any used e dealers allowing for them?-how is the allowance determined ?---how are they reconditioned and marked up for resale?-how are they disposed of?-These and many other pertinent questions on trade-ins will be answered by this survey.

The results will be published as one of the many features planned for the April issue. Watch for it. It will be well worth reading.

Member Audit Bureau of Circulations and Associated Business Papers.

75

82

79

81

All Material in This Publication Copyrighted, March, 1929

graphs

Records

grams

Latest Phonograph

BROADCASTING

Timetable of Principal

Evening Chain Pro-

What's on the Air?

MCGRAW-HILL PUBLISHING COMPANY. INC., Tenth Ave. at 36th St., New York, N. Y. New York District Office, 285 Madison Are. New York, N. York, National Press Blds. Chicago, 7 South Dearborn St. PhilaDELPHIA. 1800 Arch St. Clay Age Construction Methods Copyright, 1929, by McGraw-Hill Publishing Company, Inc. Cable Address: "Machinits, N. Y.' Annual subscription rate is \$2 in United States and Canada

GENERAL-

Commission and outlines a program for the future.				
What Will the Tube Decision Mean to the Trade? Decision in the case of independent tube makers ws. RCA expected this month—what effect, will it have?	52			
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Should Manufacturers of Sets Make Their **Own Parts?** 85 Directory of Parts and Manufacturers 89

42

Radio Retailing, A McGraw-Hill Publication

2

"All the work of Stradivarius was marked by MINUTENESS OF DETAIL, HIGH QUALITY OF MATERIAL, and BEAUTY OF TONE, which has a distinct sympathetic quality."

> No. 635 Stromberg-Carlson, Walnut Treasure Chest. Operates on A.C. Tubes. \$185 Price, less tubes and Speaker . . .

Significance of a Name

IN every field of human attainment there is one name that stands apart — which represents the summit of achievement in that field.

You can doubtless recall one such name in pianos, in motor cars, in jewelry, and other products.

In the minds of the musically sophisticated that name in radio is Stromberg-Carlson.

To have the name Stromberg-Carlson on a radio receiver, is to possess that which most others would emulate, which the greatest number of authorities unhesitatingly accept as the standard of "sympathetic" tone—tone founded on "minuteness of detail" and "high quality of materials."

There are All-Electric Stromberg-Carlson Receivers for alternating current areas, and for direct current areas, as well as Receivers operated with batteries — a complete line suitable to every dealer's patronage. STROMBERG-CARLSON TELEPHONE MFC. CO., ROCHESTER, N.Y.



"There is Nothing

Finer than a

Stromberg-Carlson"

MAKERS OF VOICE TRANSMISSION AND VOICE RECEPTION APPARATUS FOR MORE THAN THIRTY-FIVE YEARS

3

naugur March 4[#]

A Nation's most important event the inauguration!

.... All of the dignity, the impressiveness, the importance of the occasion will be brought into the homes of Americas millions.

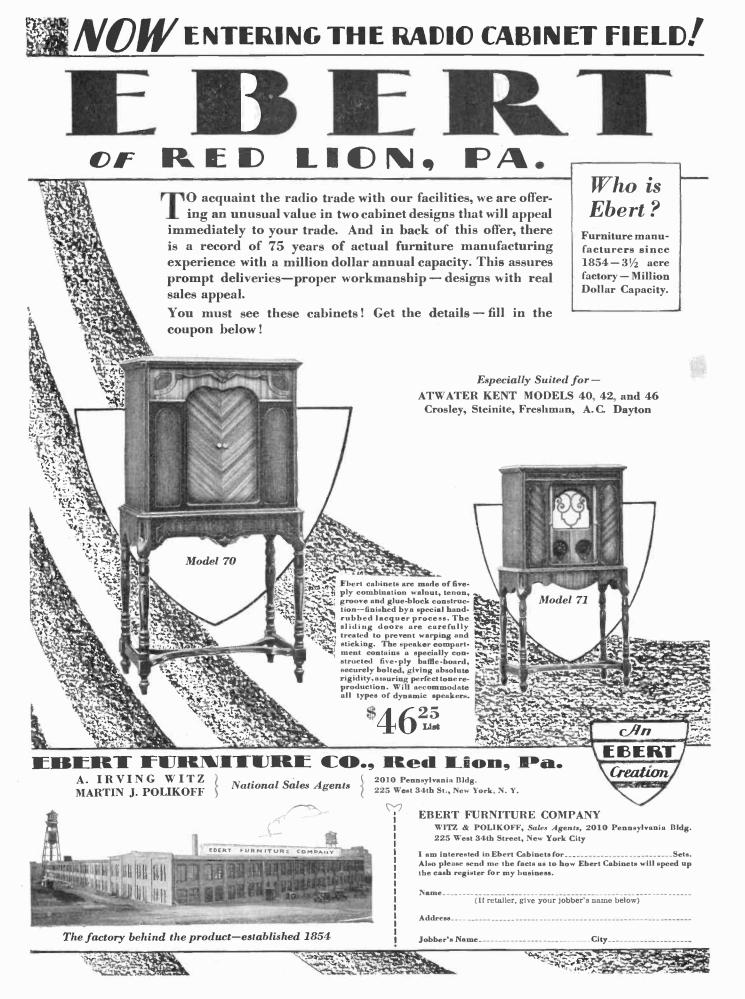
.... Make sure your Radio receiving set is equipped with a UTAH reproducer for Perfect Reception.

.... You will find just the unit to meet your requirements in size, style and price at all responsible radio dealers.

UTAH RADIO PRODUCTS CO. 1615 So. Michigan Are. .. Chicago

Model 65 With 110 D. C. Dynamic Chassis, \$35.00 With 110 A. C. Dynamic Chassis, \$45.00

.



f

Back in APRIL 1928 - -

ΤΥΡΕ

AC - 22

The screen grid tube

using the separate heater principle and

requiring 1.75 amps at 2.5 volts.

Do not miss CeCo's entertaining

radio broadcast each Monday

evening at 8:30 Eastern time

(7:30 Central time) over the

Columbia Broadcasting System.

EC announced the Type AC-22 Screen Grid Tube

5

using the separate heating principle and operating on 1.75 amps at 2.5 volts. It is now considered the most outstandingly successful AC amplifier and its use will be general this year.

CECo pioneered—and did its pioneering without the fanfare of trumpets. But it is pleasing to know that an increasing number of radio engineers and experts look with confidence to the CECo laboratories for each new development in the tube industry . . . a reward not measured in dollars and profits.

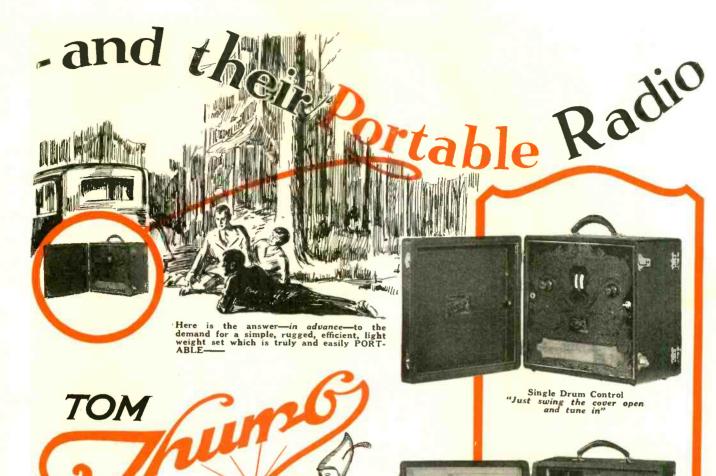
But...to You CECO Laboratory Research and Developments mean INCREASED SALES!

First, because your customers can feel assured that no matter what their needs may be, you can supply them with a tube of outstanding merit. Second, because in the more commonly used tubes, CECo has produced a tone quality, an enduring excellence that is peculiarly its own...unequalled by any other tube. And the cost is no greater! See your jobber today for complete details, prices, discounts, etc., on the CECo line.

CeCo MANUFACTURING CO., INC., Providence, R. I.



Radio Retailing, A McGraw-Hill Publication



Self-Contained

(East of Rockies) LESS EQUIPMENT

LIST

Screen Grid Portable Radio

HIS is the set that your customers will take. One look at its beautiful appearance-one look at its shockproof constructionone lift of its light weight-one demonstration of its ability to "pull in" stations on its simple single drum control-with volume and clarity-will be enough to sell your most discriminate customers. The TOM THUMB gives to the portable radio set the dependability and "dignity" that is in demand—plus a LOW PRICE which means quick sales and GOOD PROFITS.

ANOTHER model—operating on D.C. (direct) Elec-tric current 110 volts. Same appearance and con-struction as battery model but completely electrified. An ideal portable for SCHOOLS—HOSPITALS—HOTELS —OFFICE BUILDINGS—CLUBS—ANY PLACE where D.C. Electric current is avail.

\$87

PLACE where D.C. Electric current is avail-

"Just plug into the electric light socket and

For full information write your jobber or direct to AUTOMATIC RADIO MANUFACTURING CO., INC. 332 "A" Street, Boston, Mass.

Also

able.

tune in.

They Mailed the Card!

50,000 copies of THE SONATRON NEWS, carrying a story of profound importance to every radio dealer, have brought an avalanche of replies from merchants who recognize in Sonatron *the tube line of the future*. If you have not mailed the card, do it now—the Sonatron proposition today means more in sales, profits and prestige than ever before.

SONATRON TUBE COMPANY 1020 S. Central Pk. Ave. CHICAGO 16 Hudson Street NEW YORK 55-57 State Street NEWARK. N. J.

BIENE BORDONI ON AIR MIR.3

SONATRON on the Air!

7

Every Sunday, 8:00 to 8:30 p.m. Eastern Standard Time, a Sonatron program over the Columbia Chain, from coast-to-coast! Broadcasting, added to Saturday Evening Post and newspaper advertising, is building for The World's Largest Radio Tube Line an even greater consumer demand! Write for the Sonatron Proposition!

Radio Retailing, A McGraw-Hill Publication

igher lacuum LaSalle High Vacuum Tubes are made to the highest standards known. They are not a mass production tube—each tube is individually tested to insure uniform high quality for LaSalle users. Dealers everywhere are taking on the La Salle line. Its quality leadership is recognized. Ask your Jobber about LASALLE RADIO CORPORATION (Division of Matchless Electric Co.) LaSalle Service. (Division of Matchless Electric Co.) 143 West Austin Avenue, Chicago Jobbers: Are" come backs" on tubes seriously areasing your net profile Returne on Le calle Jobbers: Are "come-backs" on tubes seriously affecting your net profits. Returns on LaSalle affecting your net profits are less than half that of High Vacuum Tubes are less than profits with any known tube. Write for our proposition. LaSalle quality. E TP BES **GH** VACUU

The New **Steinite** ELECTRIC RADIO has arrived...

and what a J Sensation ,

einite HE INE



THE **Steinite** MODEL 40 An Eight Tube Set Including Rectifier **Two 171A Power Tubes in Push-Pull Amplification**

Steinite Model 40 not only completely outclasses anything in the lower priced market, but reaches into the field of many higher priced radios. It is a receiver of new power and new beauty of tone in a full sized hi-boy cabinet with a rich hand-rubbed finish. Steinite has done wonders with the Super Electro-Dynamic Speaker built into the model 40—there is a startling reality to its tone and it reproduces with inspiring fidelity the entire musical range. Uses a 227 type tube is first audio stage, practically eliminating hum.

NEVER BEFORE

specifications like these at so low a price

ELECTRO~ DYNAMIC SPEAKER **PUSH-PULL** AMPLIFICATION 250 POWER TUBES

NHE makers of America's first electric radio offer a line of receivers which will take the lead at the opening gun of the season-and keep it throughout 1929! Steinite engineers, working with the tremendous facilities of a huge organization, have produced receivers of unexcelled scientific quality. Steinite's furniture de-signers have given these fine receivers glorious cabinets of new style and beauty. And the resourcefulness of Steinite's management has made it possible to produce these new and greater Steinites at sensationally low prices!

A Great New Field of Sales and Profits!

To a line of radios which covers every big-volume price range, Steinite now adds another profit opportunity—The Steinite Electric Radio-Phonograph! The combination this year promises to be a big feature in radio sales—and the dealer who can offer so magnificent a piece of merchardise as the Steinite combination at only \$250 will capture the cream of this market. Nothing like the Steinite combination has market. Nothing like the Steinite combination has ever been offered for less than \$1,000.

And a Great Advertising Program!

The remarkable features which will maintain Steinite's repu-tation as America's greatest value will be presented to the buying public through a powerful and consistent newspaper campaign which has already produced a startling response in many cities. Commanding newspaper space will be used con-sistently—and a series of powerful and effective dealer helps has been prepared.



Price Less Tubes

Model 4510 Consolette

The Steinite Electro-Dynamic Speaker



Hatwill LEAD in 29





THE **Steinite** ELECTRIC RADIO-PHONOGRAPH COMBINATION

A Nine Tube Set Including Rectifier

Using the same powerful chassis as the model 50, Steinite has produced a combination which gives to recorded music the rich beauty of tone of a powerful push pull amplifying system using two 250 power tubes. This amazing instrument contains every feature which has been associated with instruments costing up to \$1,000, and it is destined to make radio-phonograph history at its sensationally low price! The cabinet is of fine walnut-the full, swinging doors are of Oriental diamond matched walnut, richly finished. Two albums embossed in colors are supplied. The noiseless electric motor has automatic stop and speed control. Only Steinite could do what Steinite has done in this new instrumentthanks to Steinite's famous one-profit manufacturing facilities!

THE **Steinite** MODEL 50 A Nine Tube Set Including Rectifier Two 250 Power Tubes in Push-Pull Amplification

Less Tubes

The extent to which Steinite has revised all previous ideas of radio value is shown in the model 50, using the sensational new 250 power tubes in push-pull amplification! With this amazing receiver Steinite has coupled a Super Electro-Dynamic Speaker in a beautiful bi-box cabinet with

Speaker in a beautiful hi-boy cabinet with sliding doors of Oriental diamond matched walnut. Giant power and glorious tone have been brought to the moderate priced field by the Steinite engineers, who have made the 250 tube yield its utmost in the model 50. Uses a 227 tube in the first stage of audio instead of the usual 226—that eliminates hum!

THE **Steinite** TABLE MODEL





A Seven Tube Set Including Rectifier

This is the famous Steinite electric receiver which gave thousands of dealers a profitable business all last year. An amazingly compact, yet marvelously efficient receiver in a cabinet of Tanguile, finest of Philippine woods, finished in Duco. It is America's greatest value.

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DITURNER

The News-Sentinel

tetal Dirigible Floats Without Power In The Initial Test in California

و المالية المالية المالية المالية

(NEWS OF THE WORLD)

Radio

WAYNE JOURN

BLAME "FIRE BUG" FOR MORRIS CHURCH BLAZE

WATNE AND NOR THER

AIH

OR 400 DIE IN

Steinite

oday WILL BUILD PLANT L

FACTORY READY

TO COST \$400.000.

AND EMPLOY 2.000 Site Ia in Harvester Section: Firm's 1929 Orders to Ba 800 Per Cent Over 1928

CITY

EDITION

SOFCK

FOUNDED STATE

FORT

A program of expansion which within the past few months has added three great new units to Steinite's manufacturing facilities indicates that Steinite's production will keep pace with demand! Work has already begun on a huge unit at Fort Wayne, Indiana, which will multiply production of Steinite receivers many times.

-The Weather bly more compts and Nowly rang temper

CRUISER

BILL UP

ing Batified Est-far Treaty, Turns asricas Defense

DER BUILDING FIFTEEN CRUISERS

TR

Steinite Mail Radio Co. General Sales Office, 506 S. Wabash Avenue, Chicago, Illinois. The Coupon Gentlemen: Please send me full details of the Steinite line and franchise. My jobber's name is

State

Name

Address

City

ATCHISON, KANSAS. - PLANTS NO.1 AND 2

1

While the amazing value of the new and greater Steinite, backed by a powerful advertising campaign, builds a great consumer demand, these new plants will insure prompt deliveries to

CHICAGO, 1LL. PLANT NO. 3

every part of the country. With units situated at such advantageous shipping points as Atchison, Chicago, Auburn and Fort Wayne, the needs of every territory will be quickly and promptly met.



DIR

FORT WAYNE, IND

24 Pages-Price & Cont

E

Mere To

SATROLL S1,000,000 YEARLY

Locate

HERE

(BY ASSOCIATED PRESS)

20 PAGES TODAY

PRICE THREE CENTS

AUBURN, IND. - PLANT NO. 5

CER CORRE

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Which is To

MORNING. LANUARY 17, 1929

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PLAN TO KEEP CITY

Leased Wires

BILLS COMING

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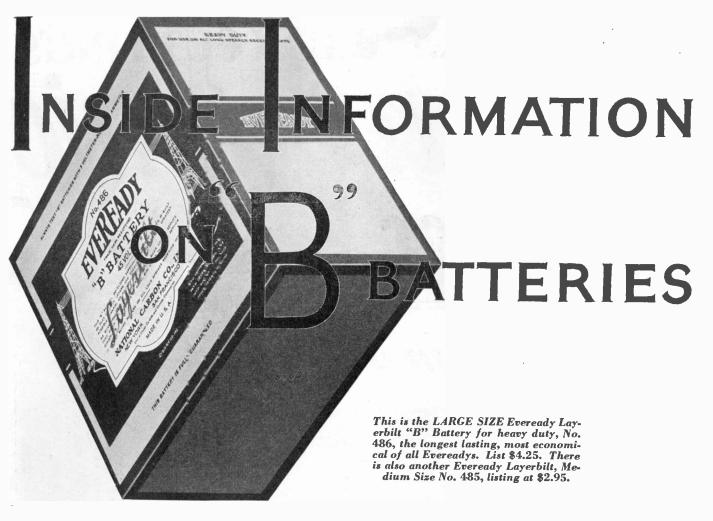
diana Assembly Gets Down to Business With Automo-bile Measure First In.

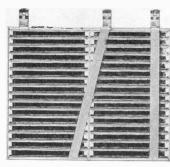
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INDIANAPOLIS, Jan 16 -- (A.P.

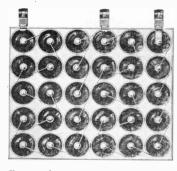
506 So. Wabash Ave.

Chicago





Here is the inside story of the Eveready Layerbilt — flat, space-saving cells making connections automatically. Only five solderings, only two broad connecting bands. Maximum reliability, maximum active materials, greatest life. Layerbilt construction is an exclusive Everealy feature. Only Eveready makes Layerbilt Batterics.



Here is the inside story about every "B" battery assembled of separate, individually sealed cells—29 fine connecting wires, 60 solderings, and lots of waste space between cells.

C

LOOK at the diagrams on this page and you will see why and how Eveready Layerbilts are so greatly superior. These diagrams give the real inside information about "B" batteries.

In the ordinary battery assembled of separate, individual cells, 29 fine wires are required to connect the cells together, and 60 solderings are needed. That makes 89 chances for trouble in any "B" battery of this type, whether the cells are cylindrical, square, hexagonal or any other shape.

In the Eveready Layerbilt, however, the cells are not independent, but *inter*dependent. They make connection with each other automatically.. Only five solderings are needed, each big, husky, and trouble-proof. There are no fine wires—only two broad bands, 3% inch wide.

This makes a real selling story to tell your customers. Convincing. Sales producing.

In addition, the Eveready Layerbilt construction packs more active materials in a given space, and so the battery not only is more reliable, but lasts longer.

Eveready Layerbilts are the most economical of all Evereadys, the most satisfactory for you to sell because they give most satisfaction to the user. Order from your jobber.

 NATIONAL CARBON COMPANY, INC., New York—San Francisco^{*}

 Atlanta
 Chicago
 Kansas City
 Long Island City

 Unit of Union Carbide
 Image
 and Carbon Corporation

DR. FULTON CUTTING'S

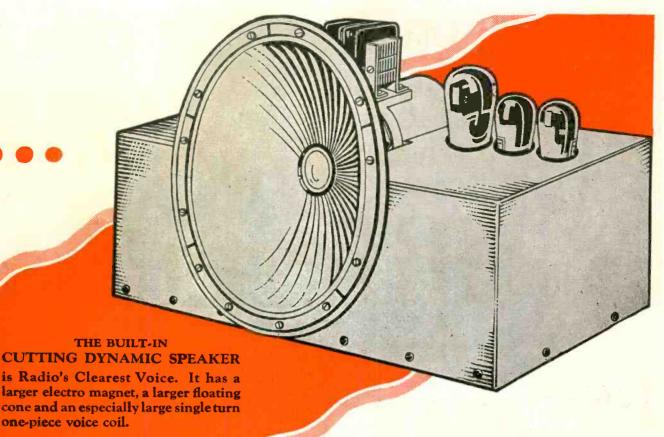
And the second s

MODEL 31 A. C. COLONIAL as illustrated D. C. models * 215 TUBES slightly higher Licensed under points of the General Electric, Weitinghow and American Telepione and Telegraph Companies

. 69 .

FACTS ABOUT THE NEW ALL-ELECTRIC COLONIAL

Direct-from-socket operation; push-pull amplification; bridge volume control; all-steel chassis; automatic light-line compensator; phonograph pick-up; definite, single-dial selectivity; full-vision control panel; maximum efficiency; beautiful art consoles; ALTER-NATING AND DIRECT CURRENT MODELS.



The RADIO SENSATION of the East...Now Extending to Other Principal Sections

With the news of Dr. Fulton Cutting's invention spreading on every hand—with a remarkable record in all of the larger metropolitan centers—with 565 DEALERS IN NEW YORK ALONE—Colonial is definitely established as one of the major factors in the future of radio.

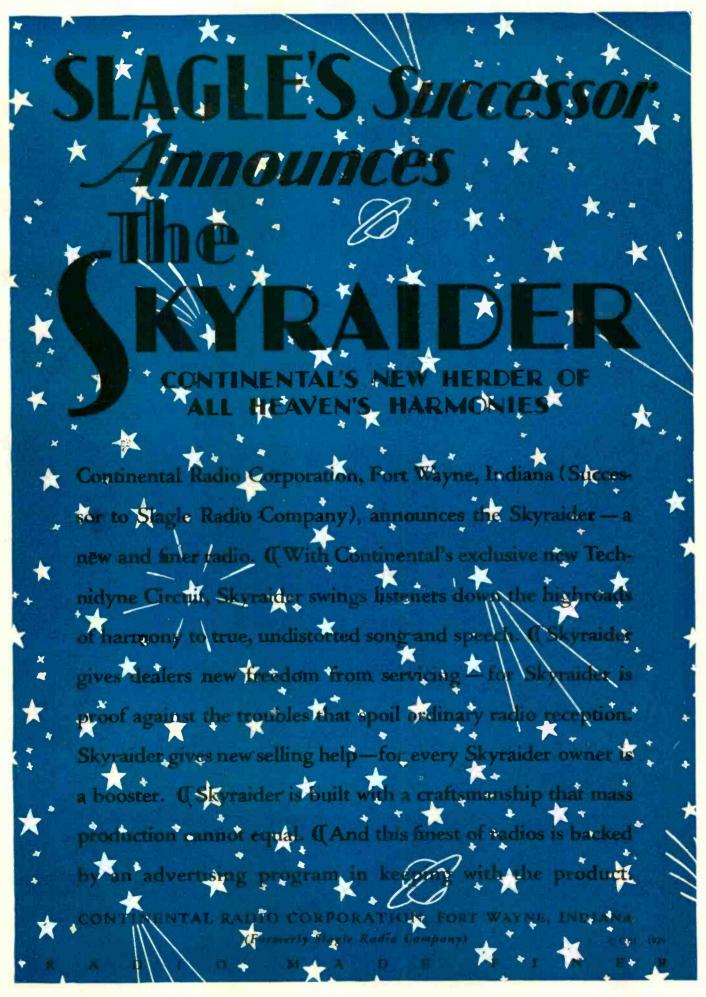
The NEW Colonial is its own best salesman. To see its beauty of design and finish—to hear its UNUSUAL reproducing ability—is to understand the DIFFERENCE between Cutting Dynamic Reception and ordinary radio performance.

COLONIAL RADIO CORP., LONG ISLAND CITY, NEW YORK



Radio Retailing, A McGraw-Hill Publication





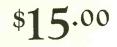
The Amazing Pacent

TYPE 106B

New Super-Phonovox, on new balanced tone arm, complete as illustrated. Bronze finish.

TYPE 106A

TYPE 106C





Write for complete information, prices, discounts, etc.

Compare the Super-Phonovox with



91 SEVENTH AVE. Pioneers in Radio and Electric Manufacturing Licensee for Igrauic Electric Co., Ltd.,

Super Model Phonovox

AGAIN Pacent presents—a full season ahead, as usual—an astonishing advance in pick-up design—the electrical radio phonograph reproducing instrument that will be accepted as standard during 1930.

Never before a pick-up of such combined tone quality and volume, such sensitivity, sturdiness and durability. The Super-Phonovox represents a genuine triumph in radio phonograph engineering—an instrument of musical-and-electrical precision. If you have handled the Phonovox—if you have enjoyed the profits that have accrued to its tremendous popularity, little further need be said of

the PACENT Super. You've been waiting for this. Prompt deliveries are assured. Consider these outstanding advantages:

- 1. No rubber bearings—assures freedom from wear, eliminates variation and maintains exquisite tone quality.
- 2. New balanced tone arm assures perfect contact with the recordno scratching.
- 3. Higher frequency range-4,000 C.P.S. down to between 40 and 60.
- 4. Mechanical filter-no peaks, minimum surface noise.
- 5. Tone box hinges backwards, facilitates needle insertion.
- 6. Low center of gravity-no resonance or rattle.

any pick-up regardless of price

TRIC CO., Inc.

NEW YORK CITY Reproduction for over 20 years Great Britain and Ireland; Bedford, England



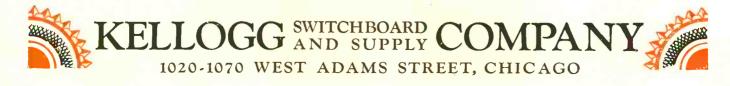


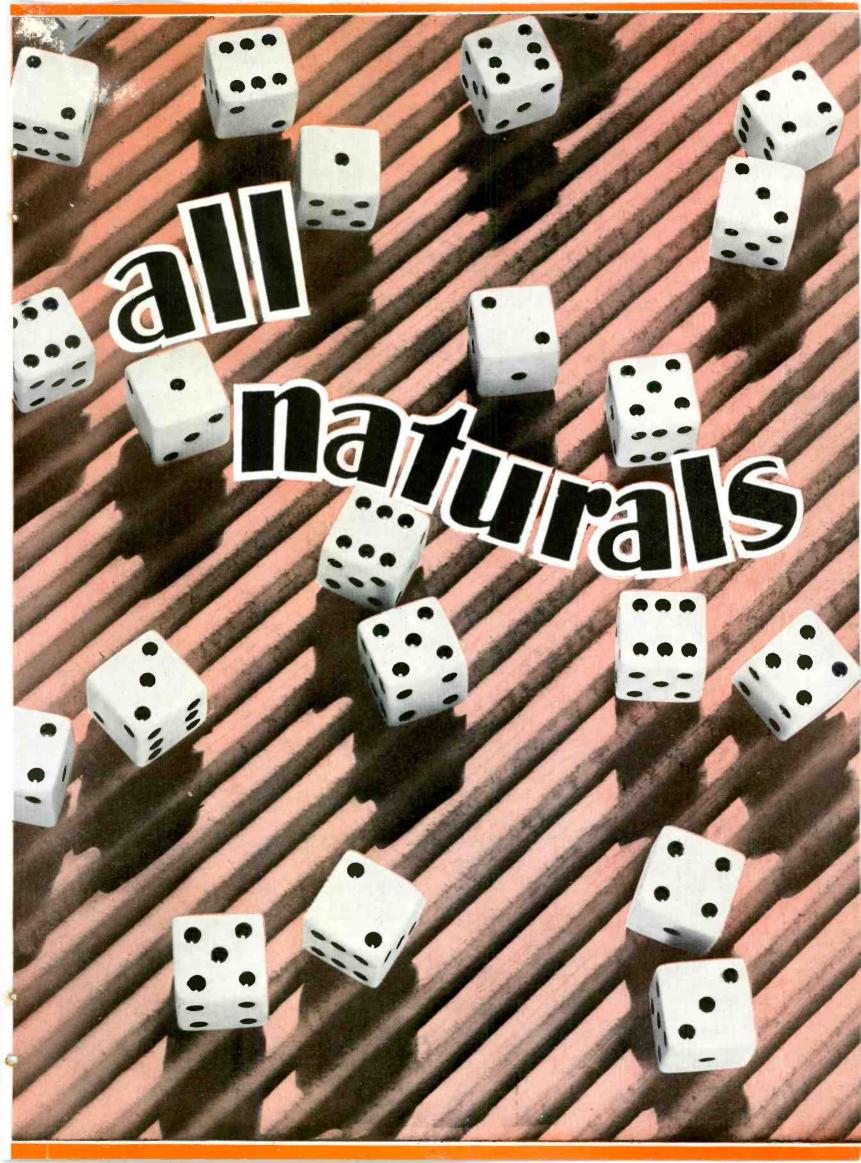
HIS news will be welcomed by all distributors and dealers as an event well worth waiting for. These models will add new glory to the nation-wide reputation of Kellogg as





Licensed Under R. C. A. Patents





For the New TEMPLE RECEIVER

HOUSE & GARDEN

All Winners – An Advertising Program that rolls a "natural" every time and is . . . besides *Big!* A

DGUE

AKING IT BRIEF—for we don't have to use a lot of words to tell *YOU* the significance of each of these separate points—contracts are now signed for the following:

Broadcasting campaign that ranks acehigh. "Temple Nights" start in April—Fridays, 8 to 8:30 p.m. over Columbia network. It's a big half-hour of entertainment bound to impress radio listeners with the way Temple does things. It starts the ball rolling for Temple dealers everywhere.

THE SATURDAY EVENING POST

Double-page spreads and large space units in the great magazines and weeklies of America—SaturdayEveningPost,Collier's Weekly, Vogue, Vanity Fair, House and



Garden, Life, Time, New Yorker. In addition, the great class publications will spread to a sophisticated audience the news that here, at last, is quality plus.

Smashing newspaper advertisements at the principal shows. Large space units in the key cities of America. These will go farther to help you build profits. So will our trade paper cooperation — large in unit size and number of insertions. So will our consumer booklets of novel and interesting appeal to the radio audience, written by well-known writers, for free distribution.

Best of all—a wide profit spread in the greatest line of radio equipment. Dis-

-

counts that do wonders for the profit side of your ledger.

Competitor, read 'em and weep. Boy friends, read 'em and sleep.

Over half-a-million dollars worth of advertising and publicity—created by the greatest promotion men in America—goes into making the new Temple Receiver "sell itself" this year.



Am Here is the Merchandise



9-inch dynamic speaker \$149.00 (without tubes).



A beautiful combination plonggraph and receiver is soon to follow

Irresistible in its Appeal to Eye and Ear

Seven tubes and rectifier. Six 227 tubes, a 250 power amplifier in the last audio stage and a 281 rectifier.

Dynamic Speaker—The famous Temple Dynamic operating from the output of a UX250 power amplifier.

Tone—Temple tone has long been a by-word in quality reproduction—it has reached a new standard in these receivers.

Selectivity—Ten kilocycle separation. Seventy-two stations in an evening through local broadcasts—all with good room volume.

Competitively Priced—In the popularprice class and sold on a basis making the Temple proposition most attractive.

And, single control, of course.



TEMPLE CORPORATION 5253 W. 65th Street, Clearing Station, Chicago, U.S.A.

Will the "B" Eliminator ever be eliminated ?

The Standard

Perhaps—in the dim and distant future. Today, fully onehalf of all the sets in service are using "B" Eliminators and, in wired homes, sets equipped with "B" Eliminators still outnumber, two to one, those not so equipped.

Every "B" Eliminator is a replacement market for a Raytheon BH Tube. Over a hundred leading makes of eliminators will take no other tube.

Raytheon BH

For dealers who recognize the sustained demand for this tube, and who wish to profit by it, Raytheon BH Tubes come in the display carton shown at the left. This carton of four tubes costs you \$10.80—sells for \$18.00—and makes you a profit of \$7.20. Standard shipping packages contain 3, 6 or 12 of these cartons — 12, 24 or 48 tubes.

25

RAYTHEON MANUFACTURING CO. Cambridge, Mass. Radio Retailing, A McGraw-Hill Publication



conducted by Arthur Pryor with world-famous Guest-Artists





CHALIAPIN





The **Biggest** Broadcast News of the Year!



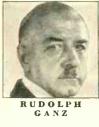
RICHARD BONELLI











Just look at this list of stars for March alone! March 3rd. Alma Gluck, Metropolitan Star (first radio appearance). March 17th. Feodor Chaliapin, Metropolitan Baritone (second appearance on the air). March 31st. Mary Garden, famous Chicago Opera Star (only radio appearance in 1929). And soon, others just as great: Anna Case, Richard

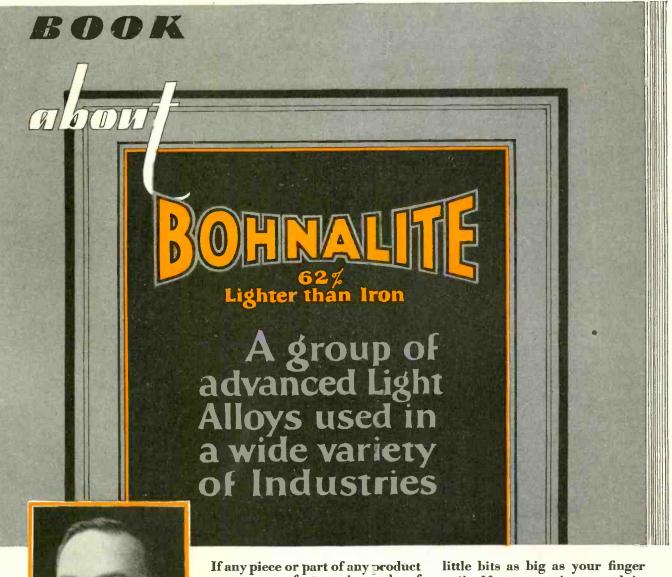
Bonelli, Charles Hackett, Rudolph Ganz, Frances Alda, the Russian Symphonic Choir and many others to be announced later.

Tell your customers they will enjoy the DeForest Hour and other broadcasts even more by installing in each socket of their radio sets the latest type of radio tubes, "high vacuum De Forest Audions."

The "De Forest Audions" program is broadcast every Sunday evening over the great Columbia Broadcasting System with its network of 42 stations that covers 87% of the country.

DE FOREST RADIO COMPANY, JERSEY CITY, NEW JERSEY

SEND RIGHT NOW For *your*



It any piece or part of any product you manufacture is made of metal you should have this book about Bohnalite. Here is an interesting handbook explaining the latest process in this new light alloy development. In it are illustrated and explained scores of metal parts ranging in size from 11 foot pieces down to little bits as big as your finger nail. If you are interested in weight reduction and cost reduction, send for your copy of this book at once. If you represent a large institution, we will be glad to mail the book to your various department heads. Just send us the list.

BOHN ALUMINUM & BRASS CORPORATION, DETROIT, MICH. New York Chicago Philadelphia Cleveland Pittsburgh

CHAS, B. BOHN The authority who developed Bohnalito-the would's latest light alloy

Radio Retailing, A McGraw-Hill Publication

Now you, too, can sell the Howard

We have now provided, in one of the finest factories in the world, greatly increased facilities for the manufacture of Howard Radio Receivers and Cabinets, both under one roof. [Cabinets embody construction and tone principles to the highest standard of grand piano workmanship. [We are ready to talk with distributors and their dealers. Ask us now, please, what we can do for you.

HOWARD RADIO COMPANY CHICAGO AND SOUTH HAVEN, MICHIGAN

New Howard Plant at South Haven, Mich.

> Licensed under Radio Corporation of America and associated companies; Hazeltine and Latour; Hogan; and Miessner.

P

New Green Diamond 57 52 a Sensation

Correct design and extreme care in construction are the basis of amazing results which Howard owners everywhere report. Nine tubes arranged as follows-four Radio Frequency Amplifiers, Detector, first Audio, and two Push Pull Amplifiers with one Rectifier Tube. This combination as engineered by Howard produces both distance and marvelous tone quality.

For the first time in our history we are in position to invite inquiries from distributors and dealers because of our greatly enlarged manufacturing facilities. If your trade could appreciate a receiver of Howard quality in a fine walnut cabinet at about \$200, use the coupon below and let us give you the details.

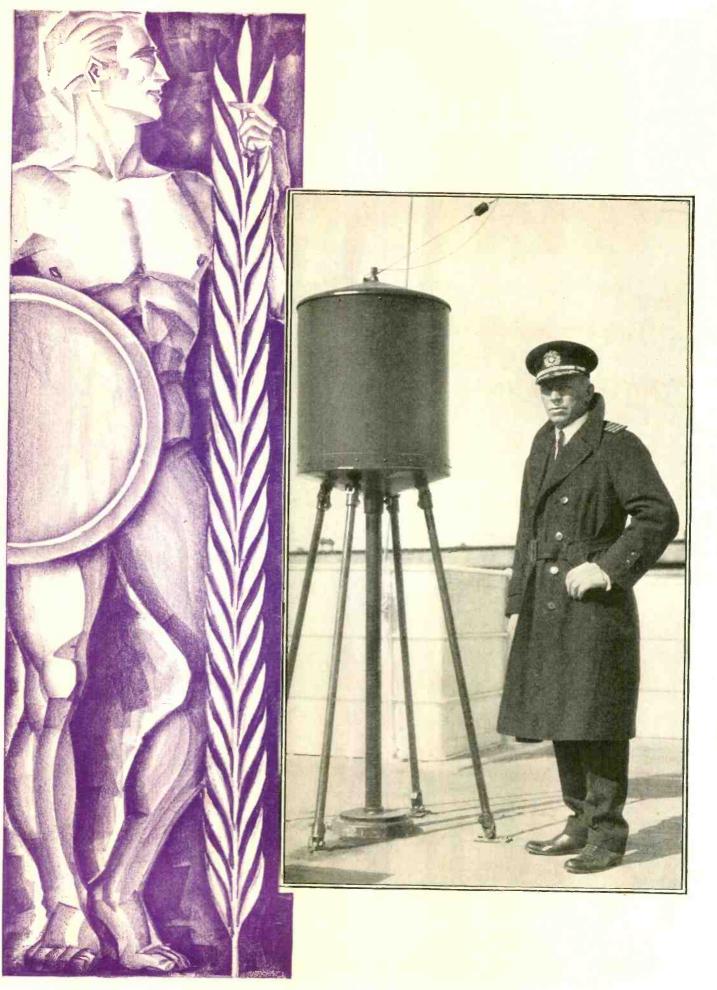
HOWARD RADIO COMPANY CHICAGO and SOUTH HAVEN, MICHIGAN

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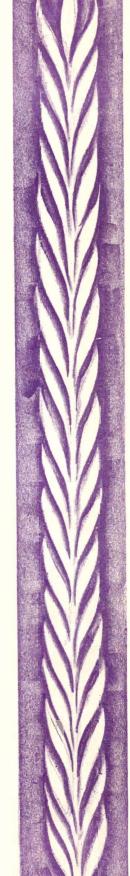
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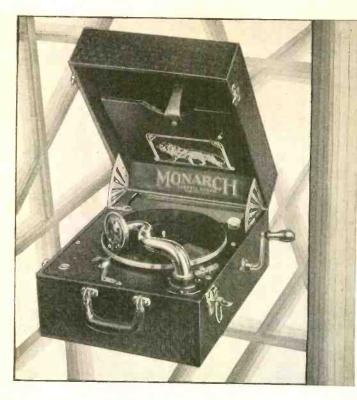
Kolster Radio Corporation is proud to have provided Captain George Fried and Chief Officer Harry Manning with the Radio Compass which enabled them to perform their heroic rescue at sea, the story of which recently filled the hearts of millions * * *

KOLSTER RADIO CORPORATION MAKERS OF KOLSTER RADIO and the KOLSTER RADIO COMPASS



Copyright by Kolster Radio Corporation, Newark, N. J. 1929

Radio Retailing, A McGraw-Hill Publication



Monarch—A beautiful instrument embodying the latest achievements in portable phonograph construction. Marvelous volume, depth and clarity of tone. Price \$25,00.

A FAST SELLING ... SPECIALTY FOR YOUR SLOW MONTHS



No. 12-\$12.50



Melody-\$15.00

THE Caswell line gives the radio dealer a source of good steady profit during the months when radio sales slow up. Caswell Portable Phonographs actually sell themselves —on their quality, beauty and tone.

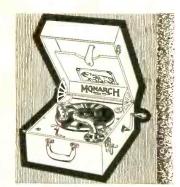
Yet, dealers who handle the Caswell line profit most by the liberal Caswell policy. To them it means the ability to offer an array of instruments of matchless value among portables instruments that have been priced at the very lowest figures consistent with such quality. And this, of course, translated into the terms of dollars and cents means greater sales and profits.

Radio dealers who are now building with Caswell know the importance of this message. Those who are not, owe it to the future good of their business to investigate its advantages by writing at once.

CASWELL MANUFACTURING COMPANY 10th and St. Paul Ave. Milwaukee, Wisconsin







Monarch-\$25.00



Aristocrat-\$35.00







HE present position of the Colin B. Kennedy Corporation commands immediate action on the part of every radio distributor and dealer.¹¹⁷ Since the pioneer days

of radio, the name Kennedy has always been highly respected. And, with this announcement it takes on an added luster ... lends a greater prestige ... extends greater benefits and greater profit possibilities to every enterprising distributor and dealer. From all standpoints, the Colin B. Kennedy Corporation is today in the strongest position it has ever occupied since 1919. It is substantially affiliated with the Studebaker interests of South Bend, Indiana, where its tremendously enlarged production facilities are centered. Its plant occupies eight acres—its expanded program calls for a daily production of over a thousand receivers and the employment of a thousand workers.

• THE PRODUCT •

Kennedy electric receivers embody not only all of the very latest refinements of advanced radio engi-

KENNEDY

The Royalty 🙀 of Radio

neering—but are designed to take full advantage of certain important radio developments that have not yet been made public.

Dr. Charles C. Lauritsen has resumed his work as Director of all Engineering activities of the Kennedy Corporation. He has won wide recognition as an eminent radio engineer—in addition to having been engaged for several years in research work at the California Institute of Technology, where his brilliant achievements have been of great interest to the scientific world.

• THE PRICE •

Kennedy Royal Receivers are listed at prices that will carry a distinct popular appeal.

LICENSE PROTECTION •

All Kennedy Royal Receivers are manufactured under protective licenses, issued by RCA, Hazeltine and others. (Continued on next page)

KENNEDY

The Royalty 🔣 of Radio

• MERCHANDISING POLICY •

Kennedy Royal Receivers will be marketed through a strong chain of selected, recognized distributors —on a sound basis offering a highly encouraging and profitable opportunity to distributors and dealers alike.

DISTRIBUTORS -

Think how much the name Kennedy has always meant in radio! Think how much more it means now, under the completed expansion plans for producing receivers which incorporate all the latest refinements of design and even anticipate definite future developments. It offers unusual opportunities that call for immediate action The Kennedy distributor organization is rapidly being rounded out! Telephone...Telegraph...Write—Now!

> COLIN B. KENNEDY CORPORATION SOUTH BEND, INDIANA

KENNEDY

The Royalty No Radio



37

Radio Retailing, A McGraw-Hill Publication

Reaction new K models New A·C Schuele GRID TUBE Dew A·C Schuele GRID TUBE New A·C Schuele GRID TUBE New A·C Schuele GRID TUBE Torre making new sales records for Federal Retailers

With Federal's new "K" models, the only licensed radios using the new A. C. Shield Grid Tube, Federal Retailers are selling new power—new selectivity new sensitivity and new distance range.

Sensational performance, never before approached in a popular priced radio, is building new sales records and new profits for retailers from coast to coast.

You can profit by being the first in your community able to feature the latest innovation in radio. See your Federal wholesaler or phone, wire or write for the Federal Proposition. "K" TABLE MODELS K 10-60 60 cycle \$114.50 K 10-25 25 cycle \$114.50 "K" CONSOLE MODELS K 40-60 60 cycle \$154.50 With DYNAMIC SPEAKER K 41-60 60 cycle \$164.50 K 41-25 25 cycle \$164.50 Prices do not include tubes and are slightly higher in west

Licensed only for Radio Amateur, Experimental and Broadcast reception.

FEDERAL RADIO CORPORATION, Buffalo, N. Y. Please send me complete details of the Federal Proposition.

Name Address



Radio Retailing, A McGraw-Hill Publication

vani

BECAUSE there was a tube shortage in 1928 the long-visioned dealer may be concerned over the possibility of overproduction in 1929.

He need not be--- if he is allied with Sylvania.

Sylvania's dealer proposition this year will be doubly attractive. No increase in demand can upset the quality of Sylvania Radio Tubes. Adjustments will continue in the dealer's discretion. Protection against price declines will be guaranteed. The price cutter will buy other and inferior tubes which he can buy "at inside prices."

Sylvania Tube profits will be protected.

RADIO TUBES

And the Sylvania Foresters— every Wednes-day Night on the N. B. C. System— Are Building Constantly Bigger Demand for Sylvania Radio Tubes.

SYLVANIA PRODUCTS COMPANY Sylvania Emporium, Pennsylvania McGraw-Hill Publishing Co., Inc. JAMBS H. McGRAW, Chairman of the Board MALCOLM MUIR, President EDGAR KOBAK, Vice-President



O. H. CALDWEEL, Editor M. E. HERRING, Publishing Director

No. 3

Vol. 9

MARCH, 1929

There's No More

"Summer Slump" in Broadcasting

NE of the most significant developments of recent months which carries tremendous importance for the whole radio trade is the establishment of chain broadcasting on a twelve-months-a-year basis.

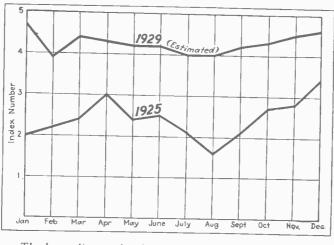
In other words, we've got the biggest and most popular chain programs definitely broadcasting straight through from January to January. That means we're going to have programs this summer equal in quality and number with winter programs.

There's no more summer slump in broadcasting!

Sales figures of the big broadcasting chains prove definitely that hot weather programs this year will keep radio interest at a high pitch and will keep the public listening to radio through-

out the summer. Formerly there had been a definite sag in summer programs. This year, that won't be the case. The National Broadcasting Company has definitely straightened out its broadcasting curve so that its popular programs will be broadcast twelve months a year, and the Columbia Broadcasting System is putting its programs on the same basis.

Going back to 1925, the number of sponsored programs and the number of hours on the air showed a sharp decline as the hot weather increased. The big programs went into retirement during the summer along with the rest of the radio industry. By 1927, however, the summer slack was beginning to straighten, as the chain broadcasting How Chain Programs Have Been Put on a Year 'Round Basis



The lower line in the chart shows the fluctuation, month by month, in the number of chain program sponsors in 1925, when the number of chain programs fell off radically during the summer. This year, not only have the number of program sponsors practically doubled, but the falling off in summer broadcasting is negligible. The index numbers at the left indicate, proportionately, the number of program sponsors. (Chart by courtesy of the National Broadcasting Company.)

companies began definitely to sell their clients the advisability of broadcasting throughout the twelve months of the year. In 1928, this was fairly well accomplished.

B^{UT} this year—for the first time—this fact is definite —the big popular chain programs will be continued throughout the summer. Now what does that mean to the trade?

It means just this—opportunities for summer sales will be greater than ever. It will no longer be either necessary or desirable for the public to "put the set away in mothballs until September." They will have programs during June, July and August that will make them want

to listen to radio just **as** keenly as they do in the winter months.

And officials of the chains report that over \$23,000,000 will be spent by advertisers for chain programs alone during 1929. The NBC reports a sum in excess of \$16,000,000 and Columbia's clients will spend close to \$7,500,000 simply to entertain *your customers* and to make them want to buy more radio!

\$23,000,000 for chain programs this year and the best programs continued all summer long ! Tell that to your customers and prospects. Merchandise it in every way possible. Put it in your windows. Advertise it. Talk it. Sell it.

No more summer slump in broadcasting! Boy, that's something to tell the world about!

Radio Retailing, March, 1929

The Problem of

By O. H. Caldwell Editor, Radio Retailing Former Member, Federal Radio Commission

Rock two years past I have been in Washington as a member of the Federal Radio Commission, undertaking to serve the American public and the radio industry by putting tested engineering principles and sound equities back into the general radio situation.

It seems appropriate that with the close of this term of government service on February 23, and my return to *Radio Retailing*, some report of this public steward-

ship be tendered to my good friends in the radio industry —the dealers, jobbers, manufacturers and broadcasters whose business prosperity is bound up so indissolubly with the results of the Commission's work. Included in the report which follows are also some individual observations on future policies which, in my opinion, the radio supervising authority at Washington should follow during the remainder of 1929.

What the Commission has Accomplished

Aside from the handling of a mass of routine administrative matters and the holding of several hundred public hearings, the work of the Federal Radio Commission has been marked by certain important constructive steps looking to the improvement of radio service generally.

In these respects, the following are some of the Commission's accomplishments to date:

In the broadcasting band:

Improved radio service has been brought to millions of farm and small-town listeners through the clearing of "rural-service" and regional channels, and the authorizing of high power stations on the former.

Reception in cities and congested centers has been improved by wider separation between stations.

The damage done during the 1926 breakdown of the law (when many new stations came on or increased power, making a total of 730 broadcasters operating) has been largely repaired by adjustments of time, frequency and power, as a result of which now only 165 stations operate simultaneously (outside of the six channels devoted to local stations of 100 watts and under).

A systematic Plan or arrangement for broadcasting stations has been set up and put into effect. This Plan embodies sound radio principles, so far as it goes, and represents the consensus of engineering opinion as being the best solution in the face of the many compromises necessary.

A procedure of public hearings has been instituted by which every applicant is guaranteed a full hearing of his claims and the public is assured that the limited radio facilities available will be assigned in the public interest. On the United States side, strict observance of the "gentlemen's agreement" between Canada and ourselves, has been re-established and is now being meticulously enforced. This agreement with Canada was seriously violated by American "pirate" broadcasters during the 1926 breakdown of the U. S. law, but all exclusive Canadian channels are now clear of any U. S. station, and on the Canadian-shared channels, the powers of U. S. stations have been so assigned as to produce no interference at the border, and with no night power exceeding 500 watts.

Regulations for the maintenance of accurate station frequency have been instituted, which will safeguard against "wandering" and crosstalk on adjoining channels, as well as minimizing heterodyning.

Outside the broadcasting field:

A complete basic allocation of the shortwaves has been or is being set up, consistent with the recommendations of the recent International Radio Conference and providing for the following services:

Ship communication Ship to shore Trans-oceanic communication Intra-continental service Airplane Direction-finding services Airway beacons Television and picture transmission Amateurs Relay broadcasting Police and fire department Power-transmission emergency service Geographical surveys Railroad communication and signalling Experimental and scientific investigation.

Radio Administration

Some RECOMMENDATIONS for the Future Control of Radio

THE experience of the Commission during the past two years has indicated the importance of adopting or making increasingly effective certain definite policies, and I earnestly recommend to those in charge of radio in the future, consideration of the following itemized suggestions:

In the broadcasting band, clear 50 or 60 channels for exclusive use of high-power stations as soon as possible (in place of the present 40 such clear channels). These additional clear channels will increase and improve the broadcasting service obtainable by farm and remote listeners, and will make available to millions of the public many fine stations now operating only part-time.

Encourage on clear channels the highest possible powers that can be used without interference on adjoining frequencies. Probably the supervising authority should require a minimum power of 50 kw. (67 horsepower), on all such channels. Assign, so far as possible, equivalent powers on adjoining channels.

Maintain present separations of 10 kilocycles between channels, and 50 kilocycles to 100 kilocycles between all stations in the same community.

Encourage experiments or proposals looking toward dependable synchronizing of broadcasting stations. Aside from power increases on clear channels, such synchronizing offers the only method for increasing the service to the public over our limited number of broadcast channels.

Maintain the present numerical basis of sharing the broadcasting band with Canada. Having now radio facilities totaling 20% of ours, Canada's population, (9% of ours) is certainly liberally provided for. Moreover, personal inspection has revealed that Canadian listeners prefer United States stations to their own, and would themselves protest any interference with or loss of United States stations. which have become their

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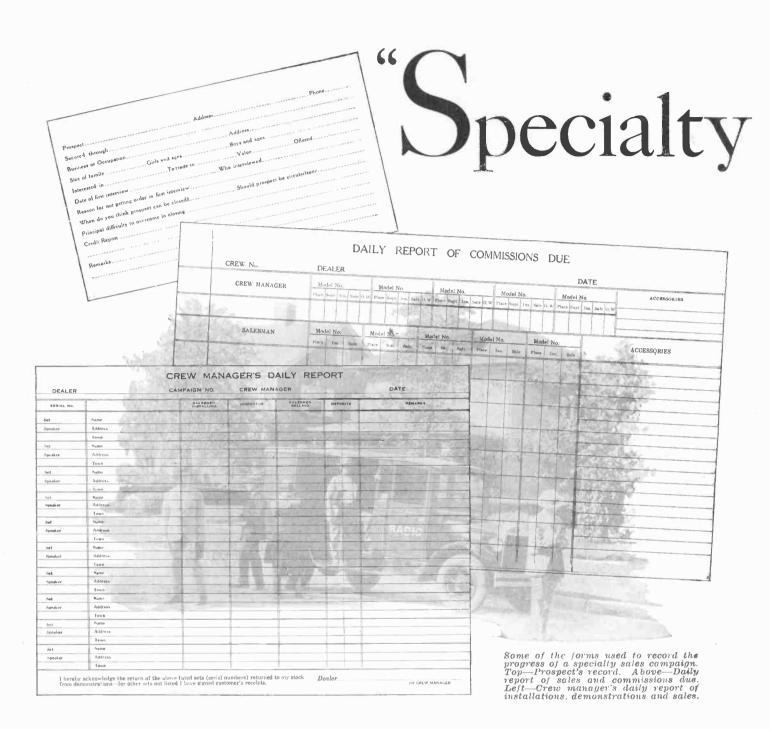
favorites. Rearrange, when possible, Canadian channels into several continuous bands or groups.

Secure the elimination of the wasteful "zone" system required under the 1928 Davis-Dill amendment as soon as possible. This zoning plan is indefensible on any geographic basis, and creates limitations and inequalities of broadcast service far more serious than those it is designed to correct.

Eliminate the many destructive "restrictive" equalizing features imposed by the Davis-Dill amendment. While the equalizing of mutually-available facilities is sound,—it is folly merely for purposes of abstract equalization, to prevent regions or communities from employing facilities available in nature only to them, though unusable elsewhere, and the use of which produces no interference elsewhere.

Adopt the most liberal policies to authorize and encourage experimentation and tests. It is upon such experimentation that the whole radio art has been created and developed. In other fields of science and engineering, experiments may be conducted freely, but in radio governmental permission must first be obtained before starting most experiments. For this reason, a sympathetic attitude should be taken toward experimenters at all times, even when it is not evident that the purpose in view will be attained, for valuable information other than that sought may be revealed.

Reserve adequate places in the spectrum for prospective *new* services, such as television and picture transmission. While television is still in the laboratory, it may shortly develop a public demand that will equal that of aural broadcasting. However, in the event of retarded development, the television reserve of channels will be valuable for other uses. But above all, it should be remembered that a broadcasting use of a channel (either visual or aural) where impulses go out to thousands or millions of receivers, is always a higher use of such channel than to devote it merely to point-topoint communication between only two parties.



W ILL the radio trade eventually find it necessary to make widespread use of "specialty sell-

By William Alley

all other methods have failed. Particularly with an article as seasonal as radio, selling in the customer's home by well

ing" methods in order to keep radio sets at the high levels reached in 1928? Certainly, if radio is ever to be taken out of the class of "peak and valley" merchandising, sales campaigns carried on outside of the store will become essential.

The industry is now experiencing a decided slump, after the unprecedented activity of last year. Who can deny that this present slump could be alleviated and sales continued on a much more satisfactory scale if the trade and industry both were keyed up to put intensive sales campaigns into practice?

Similar trades have long since adopted the "specialty selling" plan when sales have shown indications of slipping. House-to-house canvassing and home demonstrations have sold many varied items of merchandise when organized sales crews is the one tried and proven way to take the slump out of the yearly sales curve.

The industry has set itself a quota of 3,000,000 sets this year. If 3,000,000 sets, or anywhere near 3,000,000 sets, are to be sold before next December 31st, radio retailers, distributors and manufacturers will have to work hand-in-hand more closely than they have ever done before, in organizing and carrying out house-to-house sales campaigns.

The dealer who is uninitiated in house-to-house selling may be doubtful about putting such a plan into practice; the dealer who has tried it and failed is "positive that it's simply bunk"; but the thousands of dealers who have done it and made money on it prove definitely that unusual sales results can be obtained.

99 Selling

Four months a year the public "comes in to buy"-in the other eight months the dealer must "go out and sell." This article takes an outside sales campaign apart and shows how it ticks.

Thus the dealer's selling expense is fixed at 12 per cent.

The men work in groups, meeting at the store in the

the Answer to Sales Slumps

A typical, easily understood plan and one which can be followed by the great majority of dealers is recommended by the Atwater Kent Manufac Although this plan is one in which the distributor and the retailer co-operate, can easily adapt it for his own use wit tion of the manufacturer, although t course, should play an important part i

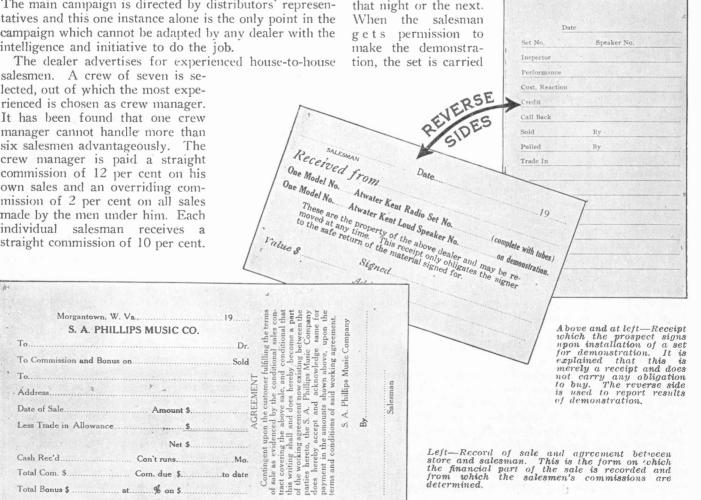
Ном то До Іт

IN THE Atwater Kent plan, taking finish, it is suggested that the intens three or four weeks but that the dealer r canvassers permanently, working consta The main campaign is directed by distr tatives and this one instance alone is the only point in the campaign which cannot be adapted by any dealer with the intelligence and initiative to do the job.

The dealer advertises for experienced house-to-house

lected, out of which the most experienced is chosen as crew manager. It has been found that one crew manager cannot handle more than six salesmen advantageously. The crew manager is paid a straight commission of 12 per cent on his own sales and an overriding commission of 2 per cent on all sales made by the men under him. Each individual salesman receives a straight commission of 10 per cent.

acturing Company.	morning. A delivery truck is loaded with sets and the
manufacturer, the	men go with the truck to a residential section, covering
the dealer himself	the entire town, neighborhood by neighborhood. The
thout the co-opera-	men solicit every home in the locality in an attempt to
the distributor, of	get a set in on demonstration. They work only in the
in the plan.	mornings and early evenings, experience having shown
	that the afternoon is the worst part of the day to find
	anyone at home.
g it from start to	No sales talk is made at the first interview. The sales-
sive campaign last	man confines his efforts to securing permission to install
retain two or three	the set and make a
tantly in the field.	home demonstration
ributors' represen-	that night or the next.



Radio Retailing, March, 1929

To

in immediately off the truck, but is not hooked up. This is left for the salesman to do in the evening when the man of the house will be home, and gives an added excuse for paying the home a visit that night.

WHAT THE AVERAGE SALESMAN CAN DO

FROM the way the plan has worked out in a number of towns, it has been found that the average salesman can get permission to put about three sets per day into prospects' homes. With a crew of seven men, and leaving each set for a three-day demonstration, the dealer must thus be prepared to have 50 or 60 sets ready for demon-

No large stration. initial cash order is however, necessary, the usual procedure here being to order the necessary sets from the distributor, on the usual thirty-day billing basis. And here again experience has shown that most of the sets are sold, very few finding their way back to the distributor.

Each salesman is paid a small fee—fifty or seventy-five cents, for every set he puts into a home, so that he can have something to show for the day's work, and a similar sum is paid for every daily "follow up" call.

These cannot amount to much, however, as every set is always "pulled" after three days if the sale is not closed. These payments, however, are deducted from the salesmen's commissions on sales, although they are advanced to him definitely each week by the dealer.

The upper card is timed to arrive at the prospect's home the day after the demon-stration.

Averages of a number of successful campaigns have indicated that each salesman visits thirty homes before he secures his average quota of three demonstrations per day, or 10 per cent of the homes visited will consent to a demonstration. Out of the three that do get in, however, the averages show that one sale results.

S THE men devote Saturdays to closing sales, and do single salesman will run something like this-homes called on, 150; sets demonstrated, 15; sales closed, 5. A good man will double these figures, but these are the average. With seven men working, and each selling an average of five sets a week, the initial quota of 50 or 60 sets is soon depleted. And this has been found to be the case in the great majority of towns where such campaigns have been tried.

With the average sale around \$130 and with the average salesman making five sales a week at 10 per cent, the salesman has an opportunity to make about \$65 a week in commissions while the campaign is on. The approximate number of sales for the dealer per week is 30, with a crew of six or seven men.

A definite system of "follow up" is used once the set is installed on demonstration, some of the forms of which are reproduced with this article. Forms to record salesmen's activities are also illustrated.

Contra P FOR YOUR PROTECTION Dear Folks:-We are greatly pleased to have been able, to give you a Free Home Demonstration of the **new** "All Electric" Atwater Kent Radio. Play it to your hearts content as the set is quite trouble free and simple in operation. make payment heep it, Should you de been made. or terms only with be identified by le Button, which he w Very Dear Folks:cent who can x* * has been only temporarily installed. With a permanent installation your recep-Per Crew Mgro 7 With a permanent installation your recep-tion will be greatly improved, therefore we are sending our inspector to see if you have experienced any difficulties which he might rectify. Burton Electric Co. erfalesman rame 612 wood St., Wilkinsburg.

The morning the set is installed, the customer merely signs an ordinary receipt for it, which, it is carefully explained, is not a sales contract and entails no obligation. Either the salesman himself or the crew manager then goes back the same evening and makes the demonstration. If the sale is not closed, the salesman or crew manager calls again the next night, and, finally, the third night. If the sale is not closed the third night, the set is removed. Meanwhile, one or two postcards have been mailed to the prospect (the first one going out the same day on which the set is first installed), hoping the prospect likes the set and that he will find it possible to keep it permanently.

> Time payments, of Two postcards course, enter into the which are mailed to prospects immediately after the set made through this type made through this type of campaign. In this sent at once whether or not the demonstration has been made. should be made with a local bank to carry the customer's paper, if the dealer is not equipped to finance his own paper and has no arrangement with a contract - purchasing company.

No trouble is experienced with local banks, usually, if the dealer has a franchise from a reliable manufacturer and the customer's credit in the town is good.

Observations of the Atwater Kent Company with this type of selling prove that dealers can make money with it. An off-season campaign, for instance, was carried on last summer in Camden, N. J., by Hurley's, Inc., during which 1,000 sets were sold during the hottest months-July. August and September. The campaign proved so successful that the Hurley company has never since dispensed with house-to-house salesmen on radio.

For the sales force, men were recruited from every walk of life; men who had previous selling experience and men who had not. Selling jobs, however, while on a straight commission basis without drawing account, were not awarded promiscuously. Tests were given, references checked and the survivors hired and trained. Instruction classes were conducted for a few minutes each morning. Inspirational talks were given by members of the Hurley staff. The spirit of the thing was contagious. Midsummer lassitude was dissipated as the spirit of quotas and special awards for special sustained effort built up an atmosphere of their own.

Going to the opposite extreme, a small dealer in the little town of Humboldt, Nebraska, added a net profit of \$806.78 to his regular business during a 24-day campaign in which only one salesman was used, and on a regular salary basis without commission.

These two widely divergent experiences—one from a large store in a New Jersey city, the other from a dealer in a little Nebraska town-both successful campaigns from the dealer's standpoint-are clear evidence of the efficiency and profit-making potentialities of sales campaigns carried on outside the store.

GUIDING Sales manual issued by Grand Rapids dealer increases volume by 25 per cent, reduces mis-understandings with customers and improves efficiency of salesmen.

VERY employee of The Radio Shop, of Grand Rapids, Michigan, is provided with a five-page, I mimeographed manual which outlines the company's policies and sales methods. According to D. R. Eason, the proprietor, this sales manual has been responsible for, approximately, a 25 per cent increase in business over the former period when salesmen's instructions were verbal.

"Furthermore," declares Mr. Eason, "the manual has reduced misunderstandings between the company and its customers by 80 per cent. Also, it has materially increased the efficiency of the salesmen-particularly in the case of newcomers and part-time representatives."

The manual gives a detailed explanation of company policies. For example, The Radio Shop charges from \$6 to \$11 for the aerial installation, whether a set is purchased or not. It permits trial demonstrations. It gives a 90-day guarantee. Five paragraphs are devoted to time-payment policies. Then

under the heading of "Talking Points," Eason has written a series of sales instructions - personal advice to salesmen-which he believes is chiefly responsible for the success of the manual in increasing the company's sales volume. Here are some selections from the series:

Make no statements that you cannot absolutely substantiate and bear out to the letter. Be particularly careful about your claims as to the distance-getting ability of any radio set; also, make no claims about the ability

of the set to cut out interference and static. Remember that there is no radio set built yet, that can eliminate static or any other interference, if such static or interference is within the effective radius of the set.

Good reception with a good set, is dependent on atmospheric conditions at the time of demonstration, local conditions surrounding the set, nearness and power of the sending station and skill in operation.

Tell the truth about radio, even if you lose the sale.

Remember that if, after you have made a demonstration, you fail to sell your merchandise, a sale has been made, nevertheless. Your prospect has sold you the proposition of not buying your merchandise.

We do not want to tell you how you should sell radios, and we welcome any legitimate methods you may have for selling them. Give the prospect an idea of the wonderful educational and entertainment advantages of radio.

Show him how it will keep the youngsters at home-where they

should be. Show him he can get wonderful entertainment at a cost of a

Radio Retailing, March, 1929

few cents and compare the cost with that of any opera or picture show.

Assure him that the entertainment will always be clean and wholesome, a thing that is not always true at the theater, and that it will be right in his own home.

Tune in a station for him and then let him tune in one or two himself.

Be sure to keep a record of the stations you get for him on the cards furnished you, and leave this record with him when you leave.

Explain the method by which stations are gotten by meters

and kilocycles and illustrate the method on the set. Almost every prospect will bring out the local paper and want to know why he cannot get certain stations that are listed as being on the air that particular evening. Explain to him that these programs are prepared some time in advance and are quite often changed before published. Other stations are of low power or far distant or have other stations interfering and cannot be brought in any radio set at the time.

Don't make the mistake of trying to see how many stations you can bring in-rather a lower number of stations with high quality programs. Don't let your prospect get the idea that a radio is a plaything.

the SALESMEN

A GOOD SALESMAN-

has a steady eye, a steady tongue, and steady habits. Understands men and can make himself understood by men. Turns up with a smile and smiles on a turn-down. Strives to out-think the buyer rather than out-talk him.

Keeps his work, his temper, and his friends. Takes a firm interest in his firm's interest. Wins respect by being respectable and respectful. Can be courteous in the face of discourtesy.

Never discusses tactics of competitors, politics, or religion. Is a gentleman first, last, and all the time. Has self-confidence, but does not show it. And best of all, he tells all the truth all the time.

> -From the manual issued to its salesmen by The Radio Shop, Grand Rapids, Michigan.

> > cheaply as such merchandise can be bought, you have overcome 90 per cent of the sales resistance.

Before closing any sale be sure the customer is furnished with a complete itemized list of just what he is going to get so that there will be no misunderstanding for our office to straighten out.

Answer every question regarding radio courteously and truthfully, no matter how foolish it may seem to you. Remember the prospect is seeking information or he would not ask the question, and he is entitled to an intelligent answer. Don't guess the an-swer. If you do not know, ask our technical department. They

will give you authentic data. Your sale is not completed when you have the customer's *name* on the dotted line and have satisfied him. Keep in touch with him from time to time and give him the benefit of your knowledge

of radio. Tell him about the plan of paying \$5 cash for the name of each prospect whom we sell, and leave one of the orange-colored cards with him.

We will stand half of this charge ourselves.

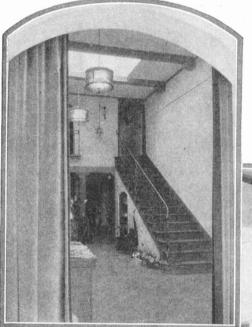
Sell him on the idea of education and entertainment by highclass artists and educators. After your prospect is able

to bring in stations with com-parative ease, proceed to give him the cost of the radio equipped as he sees it, together with terms of sale and financing

plan if necessary. Impress upon him that you do not want him to buy the set on what you have claimed for it, but rather on what it does for him in his home.

If he believes in doing business with an established, re-liable, concern which has been in business for four years, guarantees all mechandise it sells, maintains a competent competent service force, takes a real interest in its customers, giving them dependable merchandise as

"We RENT Radios"



Above is a view through the window of the Rowley Electric Company, Pasadena, California. At right is one of the radio demonstration rooms on the mezzanine floor.

I N spite of a policy which discourages the acceptance of trade-ins, many retail radio firms usually find themselves with numerous used sets which they must dispose of in order to realize the full profit on sales into which trade-ins have entered.

The Rowley Electric Company of Pasadena, California, seldom admits the fact that it accepts used sets and, in response to most requests of customers to be allowed something on the set they have been using, Mr. Rowley returns a refusal. The customer is told that his old equipment is worth more to him as its present owner than to the store.

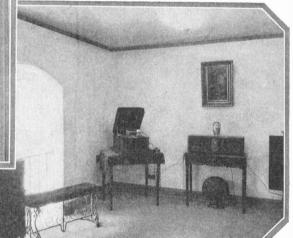
"It may be actually worth, in service, \$100 or more," Mr. Rowley points out, "but when we have to recondition it and to put in new tubes (and batteries, if it is that kind of a set) and still can get only something under that value in the best of markets, you will realize that we cannot allow you very much on your purchase."

The result of talk along these lines usually is that the customer decides to keep the old set for auxiliary service in another part of the house or to give it away to a relative or friend. Occasionally the arrangement is made that the customer himself will dispose of the set by means of a want ad in the paper, Mr. Rowley helping to frame the ad.

There are some cases, however, in which it seems expedient to take the used set as a down payment. When the original set was purchased from the Rowley Electric.

C. A. Rowley, of Pasadena, California, disposes of his trade-ins and gets red-hot sales leads by renting used radio sets

By C. Grunsky



Company this seems almost imperative - and when a very large sale is involved, it frequently seems expedient. In such cases, a fair price is allowed for the old set, considering all the elements involved in its future disposal. Occasionally the allowance is made conditional upon the actual disposal of the set, the sum allowed to be credited on future time-payments whenever the trade-in set is actually disposed of. With this system of handling

customers, however, not more than five per cent of the sales made involve trade-ins; the remaining ninety-five are outright cash or credit transactions.

As for the five per cent of old sets which the firm finds itself obligated to dispose of, they are usually most satisfactorily handled by a system of rentals. The method used is to put the set in good condition, to fit it out with new tubes—and batteries if required—and then to advertise it in the papers. The Rowley Electric Company carries a weekly advertisement in the Pasadena morning paper and in this always appears the slogan "We Rent Radios."

It is surprising how many people there are who are glad to have the use of a set for a short period. Pasadena, of course, is a favored community with a winter climate which attracts winter tourists, but visitors are not the only ones who like the temporary use of a set. Apartment house and hotel dwellers, always a more or less migratory folk, people who want to get the benefit of special programs; those temporarily alone who like the company; people with an invalid in the house who wants entertaining—these and others are interested in the possibility of renting a radio instrument.

THE charge is never less than \$10 a month, and sometimes is more than this, depending upon the character of the set. No down payment is required and Mr. Rowley confesses to taking all sorts of credit chances

48

Merchants Who Are Making Radio Pay—No. 25

without ever having suffered on this account. There is very little danger of loss short of actual robbery, as the first payment is adjusted to cover the use of all depreciating elements ----and the set, being second-hand, does not lessen in value through a little further use. It is just as salable when it is returned as when taken in. As a matter of fact, people prefer to buy sets sold cheaply because they are rental sets rather than those which are advertised as having been turned in by the owner because he wanted something better. The implication in this latter

WE RENT RADIOS VSCI01

case is always that there was something wrong with the set or the owner would not have wanted something else. The rented set, on the other hand, must have been satisfactory, or it would not have been rented.

Of course, every encouragement is given to turn these rented sets into actual sales and frequently the lessee makes the purchase. In this case, the rent is allowed on the purchase price, the tubes and battery replacement being allowed for extra and due interest charged on deferred payments.

Naturally, the sets are kept in good condition during the period of rental. The only expense to the company is in this service and in the wear and tear on tubes and batteries. How satisfactory the monetary side of this can be is shown by the case of a \$425 set which was taken in as a conditional trade-in, \$100 to be allowed if the set was disposed of. Opportunity soon came to rent it and the credit was allowed. Seventy dollars was received in rent and the set was then sold for \$150, making a total of \$220 received for the set. Of course, the expense of battery and tube replacement had to come out of this, so that the profit was not as spectacular as might appear on the surface, but certainly nothing was lost. Some of the more expensive sets of the old-fashioned type are very difficult to dispose of except on some such system. But people will rent sets which give good service, even if they are not of the latest style and once having found them to operate satisfactorily, they may buy them, profiting by the real bargains available.

The window of the Rowley Electric Company is especially adapted to feature displays. It has a curtain and archway in the rear, permitting of the display of merchandise as on the theater stage. The floor is on a level with the floor of the store itself and the archway opens into the store, so that, if desired, the entire space may be joined in one. Generally, however, the curtain is closed, presenting a rich background for merchandise, or else is partially drawn, with a platform and screen background to give special prominence to some one feature.

Radio was taken on by Mr. Rowley originally as a sideline to the sale of electrical appliances, but it is now the most important feature of his business.

"Trade-ins are not to be sought for," according to Mr. Rowley, "but they are nothing to be afraid of. Make a fair allowance for those which it seems advisable to accept—and then rent them."

Radio Retailing, March, 1929



This is the third of the series of practical articles on retail merchandising subjects by S. J. Ryan, whose experience is the result of long service with such retail organizations as: The Kresge Department Stores Corporation, New York; L. S. Plaut and Company, Newark, the Nugent Company, St. Louis, and others. He is now president of the Rines Brothers Company, a New England department store chain.

S. J. Ryan

President of Rines Brothers Company, Portland, Maine, and Merchandising Counsellor to "Radio Retailing"

Talks About

How to start and operate a simple "unit control" system of recording stock received, sales, and stock on hand is explained in this article by an experienced store executive

UNIT CONTROL is doing for merchandise what the automobile and the airplane are doing for transportation—speeding things up. Your stocks don't have to grow whiskers before you find out the public isn't interested, that they are probably buying something else from someone else. This system *tells* you these facts more quickly than older methods of merchandising did formerly. But that's *all* it can do the rest is up to you.

In discussing Inventories in the January issue, I made some pretty large claims for Unit Control. I said it would positively reduce your stocks, increase your sales, reduce losses through depreciation and increase your profits. That is certainly taking in a lot of territory —it seems to be about the whole story. The system is only a mechanical contrivance, however, and the merchant has to put in plenty of good skull work if he is going to get the greatest good from it.

Unfortunately for the more general acceptance of Unit Control amongst merchants, many individuals with a more or less real knowledge of its operation have created the impression that it is some sort of a complicated, mysterious thing. It is nothing of the sort. Mechanically it is just a sort of perpetual inventory, showing you each week your *units* of merchandise by quantities on hand and quantities sold.

If you install it, keep it *simple*. Don't let anyone sell you the idea of an involved, complicated system that will

Editor's Note — In the January issue, Mr. Ryan discussed "Inventories" and mentioned the "unit control" method of keeping track of merchandise. So many inquiries were received from readers asking for more detailed information concerning "unit control" that Mr. Ryan found it necessary to devote an entire article to the subject, outlining a simple system and telling how to use it. take so much of your time to compile that you'll not have any time left to *interpret* it. *Speed* is the essence of efficient unit control operation. Getting the essential information quickly is the big thing. What you do with the information after you get it depends, of course, on how smart a merchant you are.

WILL GIVE YOU YEARLY SALES COMPARISON

TWO distinct advantages of this method are that it gives you quickly definite information as to the relation of your stocks and sales by units for the current period and, after it has been in operation a year, the same information for the similar period of the preceding year. This latter is mighty valuable information. Styles change but buying habits do not vary so much and this information is of great value to you in laying out your buying plans.

What I mean by this is simply that merchandise of all kinds is today quite generally sold in *price lines*, from the penny piece of candy to the automobile. Next year you may not be selling the same make of radio nor the same style, but the same demand will exist for a radio at the same price. Of course, if you feel it smart to satisfy that demand by selling lower priced units, thus reducing the amount of your individual sale, that's your lookout.

All this conversation has had to do with the *interpretation* of the information, but I suspect that what you want to know is—*how to get it*.

HOW TO INSTALL UNIT CONTROL

I SUPPOSE there are dozens and dozens of unit control systems. I have seen some that would take an expert accountant to install and probably a half dozen more to operate. You don't need anything like that at all. Of course, even the simplest system is going to cost you some money to operate—about one-half of one per cent of your retail sales probably—but it certainly is worth it.

First take a physical inventory of your stock on hand,

Stock Control

in order to get going correctly. Then you need two sets of records: a receiving record which you can also use as a selling record, and the inventory form. Let us call the receiving record "Form A," and the other, "Form B."

Form A will be a sort of copy of the invoice you get from the manufacturer or wholesaler. A merchant could rule these forms up himself or have them mimeographed or printed. They should show the merchandise received by *units*, the cost, retail price, the date received, who from, etc., as per illustration. Each unit of merchandise will be indicated by a stroke like half of the letter X. As it is sold it will be crossed through, completing the X, and the date of sale noted. There you have the whole story of your purchase. Don't bother to make any such records on small items, it's too costly.

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FORM "B" (Above)

A form to record stock received, sales, and stock on hand, by weeks. Stock received should be indicated in black, and sales in red. The difference is stock on hand. In this form, stock received is indicated in the boldface letters, sales in the lighter italics. Thus, in the top column, 48 type 226 tubes were received and 36 sold, leaving a stock on hand of 12. That's the story of the individual unit. Now for the composite picture of your stock, Form B.

As illustrated, classify your merchandise down the left hand column of the form in the space provided and then break them up into price lines along the top of the sheet. Each little square on the sheet should show two figures: in black the stock on hand and in red the sales for the week. This means taking a physical inventory of your more important units of stock 52 times a year, whereas probably you only do so once or twice a year now. If this is too large a burden, then get these reports out once a month. We get them out every week.

Naturally, Unit Control cannot make you a better merchant automatically. The success of any merchant is in ratio to his ability to interpret public demand. Personal contact with his trade is the best way to accomplish this. Next to that is some mechanical aid which will furnish you with this vital information a little bit quicker than the other fellow gets it. So far, Unit Control is the best thing we have been able to evolve.

I have attempted to make this explanation as clear and concise as I could. Should you have any individual problem in connection with the installation of such a system, write to me direct or in care of this publication.

FORM "A" (Below)

A simple "unit control" receiving and selling record. Every individual article received is indicated by the first half of an X, in the columns at the right. When it is sold, the X is completed and the date of sale noted in the same space. This form of record should be used only for large items, although important small accessories, such as tubes, may be included. Explaining one of the transactions indicated on the form, for instance, five model 200 A. C. receivers have been received, three have been sold and two are on hand, as shown by the three completed X marks, and the two incomplete marks.

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What Tube Decision

The case of independent tube manufacturers vs. RCA is of unusual importance—W hat will the decision be and how will it affect the industry?— Decision is awaited this month—A review of the tube manufacturing situation from 1905 to date.

HE suit of independent tube manufacturers against the Radio Corporation of America which was tried last month in the United States District Court at Wilmington, Delaware, now awaits the judge's decision. It has again focussed the attention of the radio industry upon the tube manufacturing situation.

The case grows out of an application by certain tube manufacturers for an injunction restraining the Radio Corporation of America from carrying out the provisions of the now famous Clause 9 of its radio receiving set license agreements. This clause required licensees to purchase from the Radio Corporation all tubes used as initial equipment in sets.

The case has been complicated by its many elements of controversy. The facts in the case go back several years. As a result, the industry has become confused as to the true status of the tube situation. Yet naturally this litigation concerns practically the entire tube manufacturing industry which has now grown to include some eighty-odd manufacturers who last year did a retail business of \$100,000,000 in tubes alone. These tubes were sold by some 35,000 distributors and dealers. It is a matter of vital importance to the radio trade.

The facts in the case, however, are not hard to understand, as the following chronological review discloses:

- (1) 1905—The perfection of the three-element vacuum tube by De Forest made possible radio telephone broadcasting and reception, and the eventual development of the radio industry.
- (2) —Development, improvement and perfection of new types of tubes continued by Langmuir and Coolidge of the General Electric Laboratories, and by independent inventors, engineers and manufacturers too numerous to mention.
- (3) 1920—Broadcasting began, the radio vacuum tube came into widespread use and the radio industry and trade took form.
- (4) 1922—The original De Forest "audion" vacuum tube patents expired, throwing the tube manufacturing industry wide open.
- (5) —Numerous tube manufacturing companies were formed and enjoyed sensational growth, paralleling the rapid expansion of the radio industry.
- (6) 1927—The Radio Act was passed, creating the Federal Radio Commission,—and prohibiting the granting of radio station licenses to any corporation or subsidiary adjudged guilty of violating the monopoly or restraint of trade laws.
- (7) —The Radio Corporation of America licensed a number of radio receiving set manufacturers under the Alexanderson tuned radio frequency patent and other receiving set patents. "Clause 9" in the license agreement required licensees to buy all tubes to be used as initial equipment from the Radio Corporation.

- (8) —Headed by Eugene A. Tracey, president of the Northern Electrical Manufacturing Company, and Arthur D. Lord, then receiver for the De Forest Company, a group of independent tube manufacturers retained W. E. Darby, Jr., as counsel and brought suit against the Radio Corporation claiming that Clause 9 was restricting their business and tended to give the Radio Corporation a monopoly of the tube business in violation of the Clayton Act.
- (9) —The Radio Corporation voluntarily suspended Clause 9 pending the outcome of the litigation, but maintained as its defense that tubes are integral parts of the circuit and therefore should be under the control of the holder of the circuit patents.
- (10) 1928—A temporary injunction restraining the Radio Corporation from enforcing Clause 9 was granted by the United States District Court at Wilmington, Delaware.
- (11) —The Radio Corporation entered an appeal and the decision was affirmed by the United States Circuit Court of Appeals at Philadelphia.
- (12) —The case was again appealed on a writ of certiorari to the Supreme Court, but the writ was denied.
- (13) —The Radio Corporation petitioned for a rehearing but that also was denied by the Supreme Court.
- (14) —The temporary injunction, although granted, was not issued, the plaintiffs preferring to hold it in suspense, inasmuch as the Radio Corporation had already voluntarily ceased to enforce Clause 9.
- (15) —Darby, counsel for independents, asked Federal Radio Commission for a decision as to the right of the Radio Corporation to broadcast, in view of the action of the District Court and under the provision of the 1927 Radio Act. Louis Caldwell, counsel for the Commission, issued an opinion that "any corporation or subsidiary that is finally adjudged guilty in a Federal Court of violating the laws against monopoly or restraint of trade by attempting to monopolize broadcasting through the control or sale of radio products should be denied all broadcasting licenses."
- (16) —The independent manufacturers applied for a permanent injunction against Clause 9 at the District Court at Wilmington. Del. In the application this injunction was disassociated from the action for damages, leaving each individual plaintiff free to bring its own damage suit.
- (17) The Radio Corporation of America instituted litigation against certain independent tube manufacturers elaiming infringement of its tube manufacturing patents.
- (18) 1929—The application of the independent tube manufacturers for a permanent injunction against Clause 9 came to trial in the United States District Court at Wilmington. Trial was completed on February 16, and March 15 was set as the date for final arguments, after which a decision will be rendered.
- (19) —Meanwhile, certain tube manufacturers reported negotiations under way with the Radio Corporation concerning the taking out of licenses to manufacture under RCA tube patents. The RCA admitted that licenses are under development.

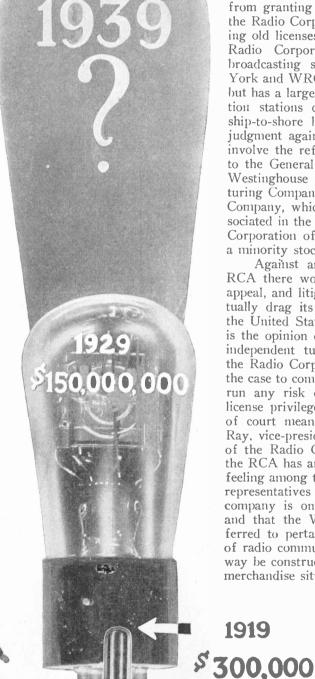
Mean to the Trade?

In reviewing these facts of the case, one of the questions in every mind is— What would be the effect of a "final" decision against the Radio Corporation of America?

Section 13 of the 1927 White Radio Act, in language not altogether clear, provides as follows:

"The licensing authority is hereby directed to refuse a station license and/or the permit hereinafter required for the con-struction of a station to any person, firm, company, or corpora-tion, or any subsidiary thereof, which has been finally adjudged guilty by a Federal Court of unlawfully monopolizing or at-tempting unlawfully to monopolize, after this act takes effect, radio communication, directly or indirectly, through the control of the manufacture or sale of radio apparatus, through exclusive traffic arrangements, or by any other means or to have been using unfair methods of competition. The granting of a license shall not estop the United States or any person aggrieved from proceeding against such person, firm, company or corporation for vio-lating the law against unfair methods of competition or for a violation of the law against un-lawful restraints and monopolies and/or combinations, contracts, or agreements in restraint of trade, or from instituting pro-ceedings for the dissolution of such firm, company, or corporation.

Some interpret this to mean that in the event any corporation be found guilty of violating the laws of the United States prohibiting "either monopoly or restraint of trade," no further radiostation licenses can be granted to it or to any subsidiary. According to those who hold that viewpoint violations of both the Sherman and Clayton Acts are covered and should the Radio Corporation or any other company be "finally adjudged guilty" the Federal Radio Commission or Secretary of



The importance in dollars and cents of the decision in the case of independent tube manufacturers against the RCA is indicated in this graphic illustration. From gross sales of only \$300,000 in 1919, tube sales grew to the remarkable total of \$150,000,000 in the intervening decade. Considering this astonishing growth, who can foretell to what heights tube sales will climb in the next ten years?

Commerce would thereby be prohibited from granting new station licenses to the Radio Corporation or from renewing old licenses as they expire. (The Radio Corporation owns only two broadcasting stations, WJZ at New York and WRC at Washington, D. C., but has a large number of communication stations doing international and ship-to-shore business.) But such a judgment against the RCA would not involve the refusal of further licenses to the General Electric Company, the Westinghouse Electric and Manufacturing Company, and the United Fruit Company, which companies, while associated in the ownership of the Radio Corporation of America, are each but a minority stockholder.

Against any decision adverse to RCA there would undoubtedly be an appeal, and litigation that would eventually drag its way to a decision by the United States Supreme Court. It is the opinion of at least some of the independent tube manufacturers that the Radio Corporation will not permit the case to come to a final decision and run any risk of involving its radio-license privileges but would settle out of court meanwhile. But Joseph L. Ray, vice-president and sales manager of the Radio Corporation denies that the RCA has any such intention. The feeling among the Radio Corporation's representatives seems to be that the company is on strong legal grounds, and that the White clause above referred to pertains only to the control of radio communication and can in no way be construed to relate to a purely merchandise situation. Meanwhile the

> independent t u b e manufacturers who are the plaintiffs in the case are apparently willing to settle their suit on the basis of their b e in g granted licenses to manufacture t u b e s under the Radio Corporation patents subject to the payment of

(Please turn to page 83)

Radio Retailing, March, 1929

Now is the Time to Think About

Summer's coming-radio sales descend-a line of "hot weather

ADIO sales are slowly being put upon a twelvemonth basis. Summer broadcasting is improving right along and the sale of radio sets and supplies increases a little more every summer. But still the need remains for the dealer to stock seasonal merchandise for hot weather sales.

It is an old business axiom that, when public interest in one line begins to wane, the thing to do is to put in other lines which are finding public favor at the moment

Experienced tradesmen have long since learned the necessity for a "balanced stock." Balanced not only as between the various items in one line, but as between a number of different lines.

The radio merchant, naturally, turns his attention to some line that has its sales peak in the summer months when radio sales are at their lowest ebb. And radio merchants have learned, also, that it doesn't pay to push radio completely out of the picture during the summer, even though their "summer line" may take up the largest part of the sales volume. Many dealers have learned to their sorrow that forgetting about radio in the summertime has led to a long hard fight to get their radio customers back in the wintertime.

Therefore, no matter how slow radio may be, no matter how great sales in other line may become, keep plugging at radio throughout the whole twelve months. Never let your town forget, even on the hottest day of the hottest week, that your store is radio headquarters. Then, when September rolls around, they won't have forgotten that you are still in the radio business.

Keep radio in the window, on the display floor and in your advertising constantly. But, at the same time, balance your expenditures and selling efforts between radio and the sideline that you are pushing.

The music trade found out long years ago that the public simply wouldn't pay serious attention to the purchase of phonographs in the hot weather. The portable phonograph was the logical development. It is a simple, inexpensive summer line and, with the virtual extinction of portable radio sets, has been taken up with fine results by many radio stores.

Electrical refrigerators and radio is another popular combination. Refrigerators are specialties which have their greatest appeal in the summer. To sell them re-quires much the same organization and approach as radio. Many stores keep their radio sales forces busy in the warm weather through the house-to-house sale of refrigerators.

LECTRIC fans and other small appliances have also E been found profitable by a number of stores as summer radio "balancers." Many dealers make it a point to solicit all their radio customers at the beginning of Spring for the sale of electric fans. This, naturally, is timed to coincide with the first touch of warm weather, and if the day is hot, fans are taken direct to the home and left "on demonstration" much in the same manner as radio itself.

For retailers in towns bordering on the water, outboard motors and small boats are becoming increasingly popular, as their seasonal aspect ties in perfectly with radio sales. They, too, are not "over the counter" mer-chandise. They must be taken to the public and sold. They are highly specialized articles and are subject to "specialty selling" methods.



Radio Retailing, A McGraw-Hill Publication

SIDELINES

sellers" will help fill in the depression

Then, too, there is opening up the whole new development of movies for the home. A large number of radio retailers are already well into this new market through the sale of small hand cameras. It is a logical move to branch out into the sale of the larger cameras and tripods and projectors for home use by the amateur movie maker, whose numbers are increasing daily. It is an ideal summer line, as summer is the best weather to take pictures, either stills or movies.

And a great number of these dealers have discov-

ered another source of profit through the developing and printing of films for radio customers to whom they have sold cameras. This work is, of course, "farmed out" on a commission basis to photographers equipped to do it.

No matter how great or how small summer radio volume may be, the dealer should not overlook the profit-making possibilities of other summer lines.

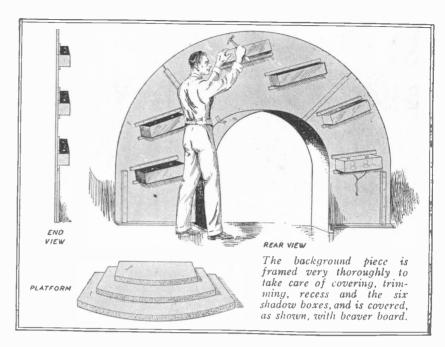
Portable Phonographs Electric Refrigerators Electric Fans Movie Cameras Outboard Motors

> are some of the sidelines that radio dealers are successfully selling

Radio Retailing, March, 1929

How to Build Action Windows No. 2

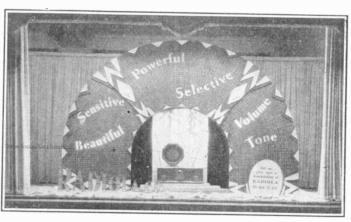
Here's a window display that combines



LIGHT and ACTION

****HIS is the second in the series of monthly articles in which I. L. Cochrane, prominent display authority, provides the necessary information and procedure for installing effective window displays. These articles are of practical value to the radio merchant because they describe displays which make use of that attention-getting element-action.

But this window is



This window display was installed in the four stores of the Queensboro Gas and Electric Company, Far Rockaway, New York

not merely active—it is vivacious. Each one of the six. leading, one-word claims for a good radio set flashes on and off, one word at a time. The arrangement of the words, as may be seen, is haphazard, or modernistic, if your prefer that term. Also, the sequence of flashing on and off is irregular; the lighted words skip and hop around without any definite sequence or seening order. And further to heighten the charming effect, each word is cut out and painted on a differently colored translucency; one red, another yellow, another green and so on through six bright colors.

An examination of the plan of this display reveals a very close merchandising connection between attraction value and sales punch. Every element, such as harmony of form and color, lighting effects, stage-line layout, shape of background, location and setting of cabinet, and especially, the dramatic presentation of the words, all unconsciously, but forcefully, direct attention to the superiority of the set. Nothing is strained; with beaver-board cut to fit. Edges and cracks are then covered with the twolayer decorative pieces, silver on black.

The letters for the words are cut out in stencil shapes, with strips of white silk previously painted, each in a different color; and back of them are placed six shadowboxes, containing sockets, lamps and wires leading to a flasher. The field surrounding the translucent letters is composed of black lines on a reddish-brown background.

THE center piece is in the form of a modernistic window seat, with three steps on a semi-circular platform, the steps being painted in variations of rose color. The curved sides are formed of black-painted beaverboard. The window is of pleated white silk, behind which are placed strips of narrow moulding and cut-out leaves. With a strong light in the rear, both moulding and leaves are silhouetted, as shown in the photograph.

The name of the set, in the foreground, is cut out of beaverboard and surfaced with silver bars on black.

instead, the mind is

naturally told to think

of the radio set in

A profusion of sil-

ver-gray drapes, back,

top, and sides, form **a** s o f t, shadow-box effect, enhanced by

puffed grey velour on the floor. The background piece is framed very thor-

oughly to take care

of covering, trim-

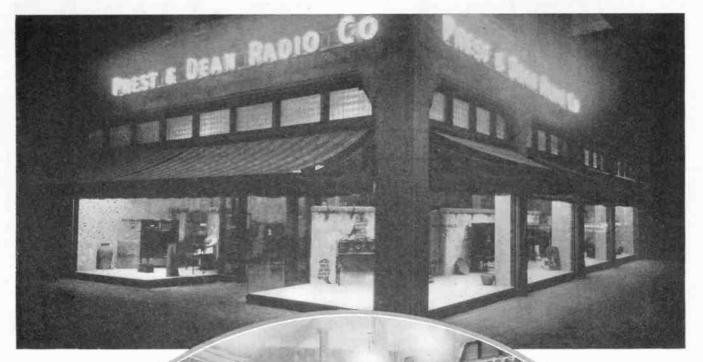
ming, recess and six

shadow-boxes and is

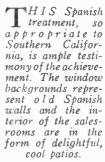
covered, where shown,

terms of desire.

ART-an Asset to the Sales Room



THE Prest & Dean Radio Co., of Long Beach, Cal., in designing its new quarters at Fourth and American Streets sought for an artistic beauty that would impress its customers with the high character of the firm and its merchandise.





Radio Retailing, March. 1929

The Best SALES IDEAS

Contest Disposes of Obsolete Sets

KINNEY AND SIPPRELL, music dealers of Everett, Washington, instituted a newspaper contest which effectively disposed of every obsolete set upon their shelves.

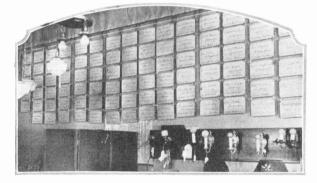
The contest was in the form of a simple puzzle, not too difficult for the average newspaper reader to solve, with prizes offered for the most *artistic*, correct reply. It was thus possible to secure a large number of replies and yet to have some means of discriminating between contestants and judging the award.

Some 27,000 answers were received. Each of these was sent an acknowledgment of his entry, together with a credit slip good for a small amount on any of the types of radio sets to be disposed of, as well as upon certain other musical instruments in the store.

Three out of every 100 receiving such credit slips turned them in. The result was that every one of the radio sets in question was sold, as well as some forty pianos and other musical instruments.

The prize was awarded to a contestant who had embroidered the correct reply on the cover of a sofa cushion.

Displays Names of Set Buyers on Wall



The name and address of every set purchaser is emblazoned on 8x10 in. cards by Henderson and Parker, Warsaw, Ind., and hung high on the wall. There are 126 of these cards and Parker states that scores of sales have been aided by this simple procedure.

Free Estimates and Tube Testing Service Get Prospects

TWO excellent methods of getting new prospects are used by the City Radio Stores, New York City. The first is the offer of a free estimate upon the mailing of a coupon to the company. This does not obligate the prospect in any way and as most people are anxious to know what they can get for their old set as an allowance toward a new one, the advertisement is effective.

The second method is the advertising of a free tubetesting service. People are invited to come in with their tubes for a free test on the company's specially equipped tube-testing machine. This method gets people into the stores and builds up the prospect list.





Tube Testing Service

Poor volume and distorted radio reception may be due to your tubes. Bring in your tubes for a free test on the City Radio specially equipped tube testing machine.

The City Radio Stores, New York, advertise a free testing and estimate service and get prospects into the store.

Co-Operation with Builders Sells Radio

THE proportion of homes built by general contractors for sale is very large in all sections of the country. Frequently these homes are furnished and sold *ready for use*. Almost always, a sample home in each tract is treated in this way.

The many attractions of Long Beach as a winter resort and permanent residence for those who have come out to make southern California their home, make it a particularly favorable district for this type of construction.

George Monk, manager of the radio department of the Frank Graves Company, of that city, has found it profitable to co-operate with builders. Through actual demonstration, he has proved to them that homes equipped with radio are more readily salable than those without.

In particular, all model homes should have a radio instrument, both because of the ornamental value and because it furnishes a peculiarly modern touch. Mr. Monk has established a definite co-operation with several builders who call upon him to install radio in all residences sold furnished. In more than one instance it has been possible to sell radio for a group of such homes, placed on the market at the same time.

Sells Radio to Replace Orchestra in Theatre

GENE OVIATT, of McCoy, Incorporated, radio dealer in Waterbury, Connecticut, heard that a local theater was to be opened by a stock company, and that it was having difficulty in obtaining an orchestra at a price that could be considered.

Mr. Oviatt went to the producer with the suggestion that they use a radio receiver with a magnetic pick-up for phonograph record reproductions, and several speakers. He succeeded in convincing them of the feasibility of this installation, and as a result, sold a set, four speakers

of the MONTH

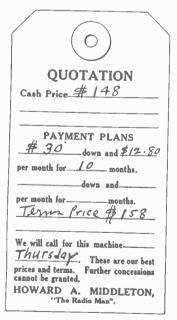
and a magnetic pick-up, as well as obtaining valuable publicity. A radio set was installed under the stage with a monitor speaker for the operator, together with the phonograph, magnetic pick-up and switching devices that would throw the radio or pick-up output into either the monitor speaker or the theater auditorium speakers or both.

Two of these speakers were placed near the stage in the auditorium, and two others under the gallery so as to provide even distribution of the music all over the theater, eliminating possibility of excessive volume in the front of the house, and possible dead spots in the rear of the balcony.

McCoy supplies a full set of new records each week, ranging from an overture or symphony at the opening of the show to concert and popular numbers for filling in between acts. McCoy gets free space in the theater program for supplying the records and arranging the program.

Red Tag Speeds Turnover

"MY AVERAGE unit price per sale is 20 per cent lower than it was last year. To maintain total gross volume and net profit, I must sell more sets and turn my stock faster," declares Howard Middleton of Sedalia, Missouri. "I do this by working faster—I get right down to the decision point



without lost motion and shorten the number of days sets are out on trial.

"Tying a special red tag to each set when it leaves the store on demonstration has doubled my turnover rate. This tag must be left on the set while it is in the home and identifies it as store-owned.

"In addition to stating the cash and time-payment price, it states the day we will call and close the order or remove the outfit. Four days is the maximum period. If, at the end of that time, the prospect asks for an extension we use a little strategy. We say that we are sorry but that it is

very hard to keep enough sets in stock to supply the demand from actual buyers—here we show a letter from our jobber to the effect that he is having difficulty getting sets to fill our orders. Then we explain that we have another prospect who will undoubtedly buy and that we must have this set to demonstrate it to him.

"If this does not produce the desired results, but if the prospect appears to be genuinely interested, we

Would You Take \$5 for an IDEA?

RADIO RETAILING will pay \$5 every month for the best sales idea and three dollars for every sales idea accepted for publication in this department.

All you have to do is to write us a letter telling us about that successful display, that sales-getting campaign, or any other experiences which helped to increase your business. If possible, send us a photo or diagram. Address:

SALES IDEA EDITOR, Radio Retailing, 36th Street and Tenth Ave., New York City.

promise to return with a similar model at the earliest opportunity. But we always 'pull' the set on the day stated on the red tag.

"In addition to making six sets do the work of twelve we have increased our ratio of closings to leads 40 per cent."

Gas Pipe and Sateen Creates Exclusive Department

 $F_{\rm Rowland}^{\rm OR}$ a time, the radio business of the Rowland Furniture Company, Fort Wayne, Indiana, was anybody's business, so far as sales and display were concerned. As a result, that phase of the company's business was somewhat under par.

But this was quickly remedied. An exclusive radio department was created at a cost of less than one hundred dollars by the use of black sateen curtains and ordinary gas pipe; the pipe being gilded after it was installed.

The radio department was then treated as a completely separate department and a competent manager placed in charge. Radio is now one of the most profitable phases of the company's business.



The Rowland Furniture Company, of Fort Wayne, Indiana, separated and enclosed its radio department, giving it an exclusive appearance, by the use of ordinary gas pipe and black sateen. This cost less than \$100



Are Trade

The Battle of the Discounts

THE question of trade discounts is coming sharply to the fore again. Manufacturers are bringing out new models. Competition is becoming keener. What shall the discount be?—40 and 5?—40 and 10?—50 and 10? They can mount and mount beyond all economic reason, or they can be standardized within reasonable limits.

It is not our purpose to tell the trade what its discounts should be. Frankly we don't know. It is doubtful if anyone really knows what the correct ratio between consumer's price and trade discounts should be. But the experience of older industries has shown that competition between manufacturers for the dealer's business is unsound if such competition is predicated upon the size of the discount. The dealer's cost of doing business is the determining factor.

The size of the discount doesn't build a market—not permanently. Increasing the discount is not the answer to increased sales. The spread between the manufacturer's cost and the consumer price is already far too wide in radio. Sales cannot be forced by widening it still further. But it is a subject of vast importance to the trade and one which should receive the thinking of the best minds in the industry.

Meanwhile, normal profits at normal volume will dictate the size of the discount. What we are selling is radio sets. Let the battle of the discounts die a natural death.

It Doesn't Pay to be Careless

E VEN in this day of simple A.C. sets, service men are still prone to do half a job when installing sets in the customer's home. Service and installations may have been simplified for the dealer, but his obligation to see that his service men do satisfactory work is still as vital as it ever was.

And the fluctuating line voltage found in many homes makes the check-up of service men of greater importance. The experience of the past year with all sorts of A.C. tubes and A.C. receivers emphasizes the fact that the chief trouble with electric sets has been due to the burning out of tubes and resistances because of over-voltage.

Much time and trouble could be saved—if the house voltage tests too high and the set itself has no compensating device—by installing a voltage-reducer when the set is first put into the home.

Meeting "Big Store" Competition

THE SMALLER merchant of today is watching his larger competitor closely. He is watching his advertisements, his window displays. He is studying his store arrangement. He realizes that these are the products of most careful planning, and he is following the successful competitor wherever it is possible.

Meanwhile the smaller merchant is stressing his personality, his biggest stock in trade. People like to deal with *persons* and the big establishment will always remain impersonal. The smaller retailer who adapts the best of the big fellow's methods, and stresses his own advantages as a personality, will always succeed in attracting trade. What he does with that trade depends upon himself.

A New Angle in the Copyright Situation

SO MUCH confusion exists in the trade as to the musical copyright situation that a few words of explanation seem to be in order.

A great majority of musical compositions are now copyrighted by members of the American Society of Composers, Authors and Publishers, whose headquarters are in New York City. Broadcasting stations pay an annual license fee to the Society for the privilege of broadcasting these copyrighted songs.

So far, the copyright laws have not been extended to include radio retailers or radio set owners. At this time, they do not need to take out licenses in order to receive copyrighted music via radio. And radio stores do not need licenses in order to make demonstrations.

However, the Society is attempting to prevent the playing of copyrighted music for profit, without payment



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Discounts Too Low?

of a license fee. If hotels, ice cream stores, restaurants and other public places desire to install radio receivers, the Society maintains they must take out a license. Whether this be necessary is problematical. Litigation has been inaugurated and the outcome will be reported as soon as a decision has been reached.

Are Tube Licenses Necessary?

S HALL independent manufacturers of radio vacuum tubes take out licenses under patents held by the Radio Corporation of America? Here is an acute problem which is confronting the tube manufacturing industry at this time.

Some believe that the establishment of a tube licensing structure would give added stability to the industry and stop further costly litigation. The experience of the incandescent lamp industry is held up as an example of the beneficial results to be obtained by such a licensing policy. The market is controlled by a group of licensees who are assured that widespread competition cannot cut into their market; there is no cut-price competition; prices to the consumer are low; quality of the product is high, and clean standards of merchandising prevail.

On the other hand, many independent tube manufacturers declare that licenses are uncalled for because the tube patents have not yet been adjudicated. It is also believed that tube licenses will throttle the independent expansion of manufacturers by limiting their sales quotas, and that the license fees will seriously cut into their already narrow margin of profit.

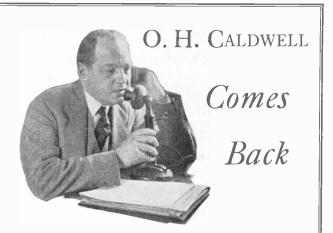
At any rate, whether or not the Radio Corporation of America licenses other tube manufacturers, the fact remains that the retail trade need have no fear of the outcome. Whatever procedure eventuates, the trade will always be able to obtain and sell radio tubes. Research and the development of new tubes will continue and the market will increase and expand through replacements as time goes on.

Saturation—Does Anybody Ever Catch Up With It?

WHAT is this thing called "Saturation"? Statisticians talk about it. Manufacturers worry about it. Everyone spends time thinking about it. But no one has actually ever caught up with it, in the radio industry. Far from being a fixed quantity, it is a most elusive variable—like chasing your hat on a gusty fall day; just when you are about to pick it up after pursuing it down the road, another breeze comes along and away it goes again.

Each year sees improvements in receiving sets. New types of reproducers are marketed. Better and more

Radio Retailing, March, 1929



WO years ago, O. H. Caldwell, the Editor of "Radio Retailing" was appointed a member of the Federal Radio Commission by President Coolidge. He was granted a year's leave of absence that he might assist in solving the tangled problems of radio broadcasting. At the end of the year, the Commission was deeply involved in its program for reallocation and he felt it his duty to continue in Washington. He therefore severed all connection with the McGraw-Hill Publishing Company and with this paper, and as the radio industry well knows, has labored long and against the most discouraging obstacles to establish a broadcasting structure for this country founded on sound engineering principles and not upon political expediency.

With this job accomplished, Mr. Caldwell has now resigned from the Federal Radio Commission and has returned to "Radio Retailing" to resume his former place as editor. He has rendered a splendid service to the American people and to the radio industry and won national recognition for his courageous leadership. We welcome him back to a post where he can continue to devote his tireless energy and fine intelligence to the promotion of radio progress.

> JAMES H. McGRAW, chairman, McGraw-Hill Publishing Company.

attractive furniture makes its appearance. Tubes and other accessories are constantly undergoing improvement in order to give better reception.

Thus engineering developments, changing styles and advancing public demand lead production on and on. Fleetfooted Sales Effort plans and directs the pursuit. And still saturation is not caught. The race, in the past year, has resulted in over six and a half million dollars worth of business. This year it promises an even greater sum. It is a healthy, interesting and fascinating race.

1928 Greatest Radio Export Year

Prepared exclusively for Radio Retailing

By H. E. Way

Assistant Chief, Electrical Equipment Division, Bureau of Foreign and Domestic Commerce U. S. Department of Commerce

Total radio exports amounted to \$12,061,410. Seventy-five per cent of world's sets include American-made parts

URING the twelve-month period ended December 31, 1928, the exports from the United States to foreign countries reached a total of \$12,061,-410, the largest total that has ever been reached. This sum was made up of \$768,728 worth of transmitting sets and parts, and the remainder, with a few exceptions, of broadcast receiving equipment. Receiving sets accounted for \$4,549,825, tubes \$1,017,560, receiving-set components \$3,054,130, and receiving-set accessories \$2,-670,987. This does not include batteries, wire, and the like. Statistics of the exports of radio dry batteries have been available only since January, 1929. Also, a new subdivision of the accessories class now shows reproducers separately.

Examination of the detailed table showing exports by countries of destination shows Canada to be the largest single market, with Argentina and Australia second and third in order of importance.

The value of exports of receiving sets increased by 50 per cent over 1927. Shipments of tubes remained about the same. Exports of components went up one-third, while a slight increase was shown in the exports of accessories. The effects of patent agitation are reflected in the decreased sales to parts of the British Empire, although some of the decreases are due to overstocking in previous years.

Eliminating transmitting materials from the discussion, the total of \$11,292,682 comprised 40 per cent sets, 9 per cent tubes, 27 per cent components, and 24 per cent accessories. Production in the United States, excluding transmitting sets, totaled \$189,615,182 in 1927, divided as follows: 50 per cent sets, 9 per cent tubes, 19 per cent components, and 22 per cent accessories. From a comparison of these data, it is evident that the home builder is still an element of importance in foreign trade, although a portion of the exports of this class may have reached manufacturers.

Two countries of Europe stand out as importers of parts, the Netherlands and the United Kingdom. The United Kingdom is also an excellent market for accessories, these being the largest of the items during 1928. Italy and Spain were the largest set markets of Europe.

Canada is our largest market, taking 44 per cent of the total. Exports of tubes were lower than the aver-

Please turn to page 87

American Radio Exports for 1928

(in dollars)

Country	Radio Trans- milting Sets and Purts	Radio Recei ~ing Seis	Radio Tubes	Radio Receiving Set Com- ponents	Radio Receiving Set Acces- sories
Austria. Azores and Madeira Islands.		\$817		\$1.674	\$867
Azores and Madeira Islands. Belgium		51 2,015	175	24,286	
Bulgaria Czechoslovakia	\$807	464 8,177	357	1 106	233
Denmark		8,466 485	10.859	42,242	31,317
Finland		6,695	833	8.742	4.827
Germany	32,238	4,990 7,147	1,576	14.506	49,871
Gibraitar		45 1,177			22
Beiglum Buigaria Czechoslovakia Denmark Estonia Frintand Germany Gibraitar Gereace Hungary Iceland Irish Free State Italy Latvia.		543 78	1,257	143	2,106
Irish Free State Italy	8.087	709		1,038 58,483	26
Latvia Lithuania			172	473	
Malta, Gozo, and Cyprus	1,618	51 7,083	229	37	385
Norway.	1,010	961	1 786	627	1,944
Portugal.	5,690	460 5,302	1.938	2.456	184 1,938
Soviet Russia in Europe	1,318	2,145 345	520	799	106
Sweden	1,098	100,047 3,548	1,980	32,393 5,157	16,082 8,182
United Kingdom	26.403	10,671 21,150	10,211 22,256	9,499 165,523	11,878
Yugoslavia and Albania Canada	255.434	190 2,449,666	173,843	1 280 402	42 1,105,097 171
Laty. Latvia Lithuania. Maita, Gozo, and Cyprus. Netherlands. Norway. Poland and Danzig. Portugal Rumania. Soviet Russia in Europe. Spain. Switzerland. United Kingdom. Yutgoslavia and Albania. Ganada. British Honduras. Costa Rica.	4,337	482 4,370	1,836	1,200,002	171
		4,007 2,465	1.268	725	3,316
Nicaragua	281 3,195	2,146	1.171	1.188	2,097
Honduras Nicaragua Panama Salvador. Greenland	15	2,328 6,781	5,218 759	6,216 944	1,477
Mexico.	8,377	147,513	17,787	14,655	35,923
Newfoundland and Labrador	360	48 12,575	1,864 657	2,911 2.531 773	64 7,951
Barbados		6,164 248	657		2,060 349
Trinidad and Tobago	159	248 3,826 1,370	443 254	1,941	2.279
Cuba	676 13,825	7.548 110,325 12,390	1,260 23,959	1,899 1,794 36,412	1,248 37,870
Netherland West Indies	25,426	12,390 1,209	4,455	36,412 3,318 1,994	3,736
Salvador. Greenland. Mexico Mewico Barbados Barbados Barbados Cher British West Indies. Cuber British West Indies. Netherland West Indies. French West Indies. Haiti, Republic of. Virgin Islands of U. S. Argentina. Bolivia Brazil. Colombis. Brazil. Colombis. Brazil. Colmels. Surinam. Faikland Islands. British Guiana. Surinam. Paraguay. Peru. Uruguay. Venezuela. Aden Arabia. British India. British India. British India. British India. British India. British Maiaya. Ceylon China Java and Madura. Other Netherland East Ind. French Indo-China. Hong Kong Iraq Japan Kwantung. Palastine Peria Palastine Paria Palastine Paria Panda Fench Salva Falastine Paria Palastine Paria Panda		1,217	30 262	87 1,136	95 827
Virgin Islands of U. S Argenting	99.454	137		138	225,218
Bolivia Brazil	4,660	482,371 2,799 99,026	279 69,142	583,335 1,565 89,456	812 73,480
Chile	216	33,197	17,200	11,614 12,021	15,377 9,157
Ecuador.	1,000	12,689 3,171		432	1,017
British Guiana	•••••	132		1,630	228
French Gulana		310		88	
Peru	38	196 3,341	4 000	254 6,325	319 2,320
Venezuela	8,945	148,385 1,879	3,286	37,674 2,575	1,041
Arabia	•••••	8,654	1,366		1,654
British Malaya	19	8,654 485 223	1,366 306	3,747	471
China	78 47,329	223 34,279	33,178	733 5,237 14,725	22.766
Java and Madura Other Netherland East Ind.	5,845	657 188	140	1,705 724	2,239 1,089
French Indo-China Hong Kong	2,174	440	128		
Iraq Japan	41.053	29,540	79,418	55,549	
Kwantung Palestine Persia		150			120
Persia. Philippine Islands	24,859	52,808		8,657	15,305
Siam. Soviet Russia in Asia	8,975	2,154	1,423	640	227
Syria. Turkey.			3,445		•••••
Other Asia. Australia.		240 414	11001111	99	
British Oceania. French Oceania.	6,244 22	396	178,414	348	458
New Zealand	2001	114,319	198 46,937	289 77,799	549 48,756
Ethiopia. Belgian Congo.			••••		· · · · · · · · · · · · · · · · · · ·
Ethiopia Belgian Congo British East Africa Union of South Africa Other British South Africa	· · · · · · · · ·	24,275 872	3,459	6,790	36 19,426
British West Africa		* * * * * * * * *	116 58	196	147 65
Algeria and Tunisia		163 40		547	45 10
Other French Africa		• • • • • • • •			
Italian Africa Liberia		115			1,581
Mozambique		651	49 62		404
Canary Islands			110	211	174
Other Spanish Africa		231	51	•••••	
Total	\$768,728	\$4,549,825	\$1,017,560	\$3,054,310	\$2,670,987
Grand Total			·		

Grand Total......\$12,061,410

Making DOLLARS out of



NICKELS

There are 250,000 commercial prospects for automatic coin-operated phonographs. Two dealers tell how they are capitalizing this "allied" business.

By Ray V. Sutliffe

A UTOMATIC music in public places is an old story, as, also, are the facts that, generally speaking, the character of this "canned entertainment" has been of mediocre quality and the devices themselves have required frequent attention.



The application of the electric pick-up, line power amplification and the modern reproducer to automatic phonograph apparatus of a commercial character, together with a mechanical feeding device whereby it is possible to play as many as 48 different selections, has, however, raised this proposition to a much higher plane. It has materially enhanced its merchandising possibilities and has definitely thrown it into the lap of the live-wire radio merchant; in the opinion of the two dealers whose successful experiences with the automatic phonograph are herein presented.

The machine handled by the Christena-Teague Piano Company, of Indianapolis, Ind., for example, sells for \$1,095 up to \$1,250. William Christena, president of this old and conservative music house, sold 47 of these machines—gross \$54,000—during the first four months in which he actively got behind them. He is now averaging one sale every two working days. S. B. McFadden, Havana, Ill., working in two counties,

S. B. McFadden, Havana, Ill., working in two counties, secured 27 signed orders from November 15 to January 10.

THE selling methods employed by these two dealers are practically identical. It's a field promotional proposition, they declare—a case of putting one of these automatic phonographs on a light delivery truck and contacting prospects until it's either sold or left on approval with some worthwhile customer. As the coin-slot type begins to pay its own way from the first hour it's plugged in, reverts have run less than one to every ten installations.

The experience of both dealers in selling high-priced

Radio Retailing, March, 1929

merchandise was a valuable aid in this new activity although the buyers were of entirely different character. Proprietors of soft drink parlors, public amusement places, or chairmen of house committees are hard-boiled, commercially-minded, individuals. They are, however, accustomed to making quick decisions. For these reasons, the person-to-person, first-call, "high pressure" technique frequently produces immediate results. McFadden states that 40 per cent of his sales are practically closed on his first call if the prospect be a likely one.

Knowing that once the present-day, coin-operated, machine is given a trial, its beauty of tone, ease of operation and earning power will cause it to "stay put," every effort is made to obtain permission to place one on the *Please turn to page 87*

TH	RIAL	IN	STA	LLA	TIO	N	CONTRACT
					Ŧ	H	Jan. 21, 29 Trana, ILLINOIS
	S. B. McI	ADDE	N being	the auti	horized a		butor of the Orchestrope
Phor	nograph i	n sta	cof (2.8 0	lines		Orchestrope Automatic
						rges.	. records, freight and
	age, etc.						
							t incur any obligations to located at
							the said. American
							this event it is distinctly
	loc	ated at	Har	ana	that all	of th	e proceeds shall be appl-
ied	on the p	archase	of the	machin	c as a p	artia	l down payment.
			f	B	ma	30	dden
			C	.8.0	Ames		See Star
		1.1.1.1	1 Starte	-	a Maria	-	

The contract form used by S. B. McFadden, of Havana, Ill., for trial installations of automatic, coin-operated, phonographs. Note that the proceeds of the coin box belong to McFadden unless the machine is purchased by the customer.



Practical Service Methods

Conducted by H. W. BAUKAT



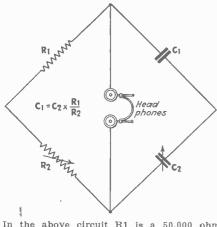
Simple Device to Determine Condenser Capacity

Numerous requests from readers asking for simple methods of determining the capacity of fixed condensers lead us to present the following system which is easily constructed and operated by the radio dealer and costs at maximum \$10.

The device employs the familiar capacity bridge principle used in the more elaborate laboratory instruments for this purpose and utilizes the common A.C. 110 volt light line as a resonance indicator as shown in the illustration.

In order to place the bridge in operation it is first necessary to balance it perfectly. This is done by inserting a .001 microfarad fixed condenser at C 1, listening in on the phones and varying resistance R 2 and capacity C 2 until the A.C. hum becomes weak or disappears entirely. The bridge is then in proper balance and resistance R 2 may be left in this position permanently, all further adjustments being made with C 2. Resonance usually occurs when C 2 is practically at maximum.

In order to test a condenser of unknown value, remove the capacity C 2, used to permit preliminary adjustment and substitute the condenser to be tested. Then vary the dial of C 2 until resonance occurs, or until the A.C. hum disappears. At this point the dial setting of the variable condenser indicates the capacity of the condenser on test, the bridge circuit balancing when the variable standard and the condenser on test are of equal values. If the standard or C 2 is of the straight line capacity type and is equipped with a 0-100 degree dial, the capacity of the condenser may be read directly from these dial settings. In other



In the above circuit R1 is a 50,000 ohm grid type resistor. R2 is a 10-100,000 ohm variable resistor. C2 a .001 mfd. S-L-C variable condenser. C1 is the condenser under test.

words if resonance occurs at 50 on the dial, the condenser on test is half the capacity of the standard, or .0005 microfarads. If resonance occurs at 25 on the dial, the capacity of the condenser is one quarter of the maximum capacity of the standard, or .00025 microfarads.

Parallel or series condense,'s may be tested in this circuit provided the total

capacity is not above the maximum or below the minimum capacity of the stand-A calibrated condenser of the type ard. which comes equipped with a dial cali-brated in microfarads will greatly simplify capacity readings and may be used in the circuit.

A line fuse should be inserted in one of the A.C. leads, as a broken-down condenser at either C 1 or C 2 will short circuit the house current supply. If the condenser on test is open circuited, or has a broken connection between the terminal and the plates, it will be impossible to balance the bridge circuit.

How to Reduce Transformer Voltages

Occasionally transformers are available whose windings are designed for higher voltages than are required for the opera-tion of certain types of tubes, just as for instance storage batteries which are available must have the voltage cut down to lower values for operation of tube fila-ments. Usually a 7.5-volt winding origi-nally designed for use with the 7.5-volt filament of a 210, 250 or 281 tube must be cut down to 5 volts for operation of a 112A, 171A or 280 tube.

In order to preserve the electrical bal-ance of the winding it is best to reduce the voltage to the required value by using a the voltage to the required value by using a resistance in each leg of the winding rather than by using a single resistor. To reduce the 7.5 volts of the winding to 5 volts for a 171A tube which draws .25 amperes at 5 volts, the voltage drop required will be 2.5 volts, the current drain is .25 ampere and the resistance required is therefore 2.5 divided by .25 or 10 obms which can be 2.5 divided by .25 or 10 ohms which can be obtained by inserting a resistance of 5 ohms in each lead. If the winding is to ohms in each lead. If the winding is to be used with two 171A tubes which to-gether draw .5 ampere then the resistance will be 2.5 divided by .5 or 5 ohms requir-ing 2.5 ohms in each leg. If the filament is to be used for a 280 tube which draws 2 amperes at 5 volts, the resistance required will be 1.25 ohms with .625 ohms in each leg. The resistor of

.625 ohms in each leg. The resistor of course should be of sufficient capacity to carry the load.

Why An Output Filter Should Be Used

Most of the discussions dealing with the advisability of employing an output circuit in the plate circuit of a power tube mention the fact that this procedure is necessary to prevent damage to the speaker.

It is just as important, however, aside from any possible damage to the speaker to use such an output circuit or "tone filter." The average speaker has a winding having an average resistance of about 1,500 ohms. If we use a 171A output tube which draws a current of 20 milliamperes when operated at a plate voltage of 180 volts, the drop in voltage which would be

caused by the introduction of the resistance of the speaker windings would amount to .020 ampere multiplied by the resistance of the speaker (1,500 ohms) or 30 volts. of the speaker (1,500 ohms) or 30 volts. This means that it would be necessary to add another 45-volt block to make up for this loss in a "B" battery operated receiver or a loss in efficiency and quality if the additional voltage were not added because of the lowered "B" voltage applied to the plate of the power tube and because of excess grid bias for the lowered plate voltage unless the grid bias was reduced proportionately. In addition the wasting of .6 watts of "B" battery current would be far from economical. be far from economical.

Spark Suppressors in Movie Dark Rooms

One of the unexpected sales fields for condensers is in spark suppression, accord-ing to George E. Palmer, general sales manager of the Dubilier Condenser Corporation. In fact, the field of spark suppression is steadily increasing, and the technique and production methods devel-oped originally for radio condensers are coming into good use in many other indus-

tries. "The usual spark suppression problem is interference with mainly one of preventing interference with radio reception. With the super-sensitive radio sets of today," says Mr. Palmer, "a sparking motor brush or contact device can cause troublesome interference over a wide The problem is therefore of suparea. pressing the radio-frequency energy set up by the electric spark, so that it will not give rise to parasitic radio waves either through space or over the electric power

"However, we have recently been called in on a different kind of spark suppression campaign, and that is in connection with sparking contacts in motion picture dark-rooms. Here the problem is not only the prevention of radio interference, but also protecting sensitive films against fogging by actinic light waves. In this connection we have actually succeeded in suppressing troublesome sparks on the one hand, and, in other cases, actually changing the actinic value of the spark so as to render them harmless to sensitized films. in the case of printing machines.

Operate Power Tubes at **Rated Voltages**

In using tubes which consume appreciable power, some precautions must be taken, which are not necessary with smaller tubes. The best example to illustrate this point is the 250, which, when operated at maxi-mum voltage, consumes 10 watts in the filament and 25 watts in the plate circuit. Under such conditions it is not advisable to attempt to use the tube "conservatively" by operating the filament at reduced temperature, because this may result in very unsatisfactory operating conditions for the tube. This is due to the fact that as the filament temperature is reduce, the internal

resistance of the tube increases, and the voltage applied by the rectifier will often rise to values which may result in damage to the power tube.

Instances in which a flash over has occurred have been traced to operation of the power tube filament at voltages as low as six volts instead of the rated voltage. When the filament temperature was increased to normal, the operation of the tube was entirely satisfactory. The rule to follow in the operation of

The rule to follow in the operation of the larger power tubes is to operate the filament as close to the rated value as possible, this value being 7.5 volts with the 250 tube.

Notes on the Design of Voltage Dividers for A.C. Tubes

In determining upon the proper design of a voltage divider for a power pack to be used with a given receiver, it is absolutely important to know the plate current drain of every tube used in the receiver. The correct value of plate current that should be drawn in any particular tube circuit depends on the effective plate voltage applied in the circuit.

The tube characteristic curves or charts give the current drain of a tube at zero grid bias for different values of plate voltage.

age. The tables of tube characteristics give the values of plate current at several values of grid bias and applied plate voltage, but it is a simple matter to figure the plate current for any given condition of plate voltage and grid bias voltage.

The effective plate voltage in the plate circuit of a tube is equal to the plate voltage (measured between the plate of the tube and the negative filament terminal) plus the product of the grid bias voltage times the Mu or amplification factor of the tube.

If we take a 226 tube, for instance, operated at zero grid bias with an applied plate voltage of 135 volts, the effective plate voltage will be 135 plus (0x8.2) which equals 135 plus (0) or 135.

The plate voltage-plate current curves show that the plate current drain with an effective plate voltage of 135 volts would be approximately 20 milliamperes. If the recommended grid bias of -9 volts

If the recommended grid bias of -9 volts is used with this applied plate voltage of 135, the effective plate voltage becomes 135 plus (-9x8.2) equals 135 plus (-73.8) equals 61.2 volts, effective plate voltage.

SIMPLIFIES CALCULATIONS

At this effective plate voltage the plate current is just six milliamperes, according to the plate voltage-plate current curves for zero grid bias.

When using the effective plate voltage to determine plate current, the use of the plate voltage-plate current characteristics at zero grid bias is equivalent to using special plate voltage-plate current curves plotted with the required grid bias.

Once the approximate effective plate voltage which should be used with any given tube is determined, it becomes a simple matter to keep the relationship of grid bias and applied plate voltage approximately correct. All that is necessary is to take the recom-

All that is necessary is to take the recommended values of grid bias and plate voltage for any particular instance, such as the recommended grid bias of -9 volts for an applied voltage of 135 volts to give the necessary effective plate voltage of 61.2 volts required by the 226 tube. Then if we decide to use an applied voltage of

Radio Retailing, March, 1929

SERVICE REPORT ORDER TAKEN Address City Remarks Make Our Sale Date A-Battery B-Battery Eliminators C-Battery Rec. & Spikr. Tubes Remarks CHARGES ON SERVICE AND MATERIAL C. O. D. This apparatus is now in satisfactory condition and above charges approved Work Dame By By Charges-C.O.D. рея---G __

A very good example of a service report form. The dealer's name and address may be printed on the form also.

180 volts, the difference between the applied voltage (180), and the effective voltage (61.2) must equal Mu (amplification factor) times the grid bias. In this particular case, then, 180-61.2 that is 118.8 must equal the negative grid bias times Mu (8.2) or grid bias equals 118.8 divided by 8.2 equals approximately -14.5 volts.

In the same way it is possible to calculate the proper grid bias for any given intermediate value of applied plate voltage for the 226 tube. The same idea can also be applied to other tubes when the required effective plate voltage and amplification factor of the tube are known.

Screen-Grid Tube Calls for Careful Engineering

Although the shielded grid tube has been mentioned in somewhat abated breath in radio experimental circles, it succumbs to

careful engineering and is quite docile when introduced in a radio set. In fact, a single screen-grid tube replaces at least two of the usual radio-frequency tubes and, in many instances, three such tubes. The fact that the A.C. screen-grid tube is still largely in the experimental stage has caused radio manufacturers for the most part to avoid the standard screen-grid tube, because of the demand for A.C. sets exclusively. The battery-type screen-grid tube has

The battery-type screen-grid tube has proved entirely practical, when properly used. This tube is capable of satisfactory life and service, but it must be employed in a correctly designed circuit. Many amateurs and experimenters who have attempted to employ this tube have had sorry experience in the way of short life, due to excess voltage, improper grid bias and other errors. The tube is a boon to those who know how to use it, because of its delicate characteristics.

Grid Suppressor Efficient Means of Feedback Control

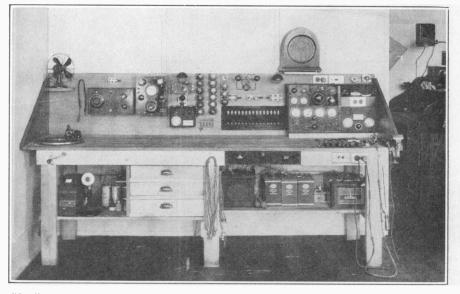
Although the 222 tube is proving very popular among experimenters this season, there are still many circuits in which it is not convenient to take advantage of the low inter-electrode capacity of the 222 tube to eliminate oscillation.

to eliminate oscillation. One of the simplest, most inexpensive and yet one of the most efficient means to use to avoid trouble from oscillation in radio frequency circuits in which 201A or 226 tubes are used as radio frequency amplifiers, is to use the grid suppressor method. This consists simply of inserting a fixed resistor having a value of from 200 to 800 ohms in the grid circuit of the radio frequency tubes, between the grid of the tube and tuning unit.

The use of such a resistance causes a decrease in amplification which is more pronounced at the higher frequencies, an advantageous feature, since the feed-back and consequent trouble from oscillation increases with frequency.

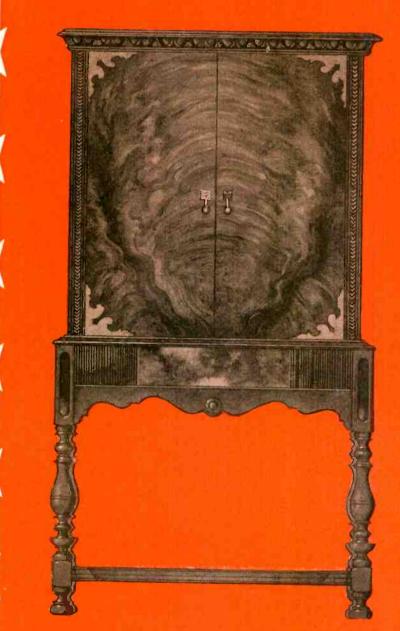
This method is easy to install in both new and old type receivers either battery or a.c. operated.

Well Arranged and Adequately Fitted Test Bench



The illustrated test bench of Lyon Service Company, Syracuse, N. Y., enables the service man to test for opens, shorts, noises, measurements, modulation output, resonance, realigning gang condensers, current consumption, neutralization and many other tests.

RCA RADIOLA 62



The big seller in fine cabinet receivers

RCA RADIOLA 62-

Cabinet model of new RCA Super-Heterodyne with Electro-Dynamic Speaker. A. C. housecurrent operation. Beautiful cabinet of walnut veneer with maple inlays.

\$375 (less Radiotrons)



This sign marks the leading dealer in every community

RADIO CORPORATION OF AMERICA - NEW "ORK - CHICAGO - ATLANTA - DALLAS - SAN FRANCISCO



RCA RADIOLA 41

With RCA Electro-Dynamic Speaker and equipped for either A. C. or D. C. operation

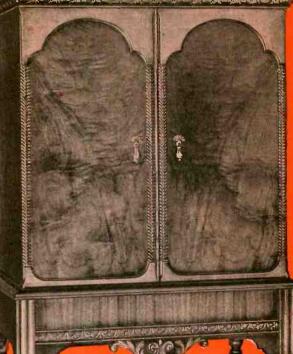
RCA RADIOLA 41-

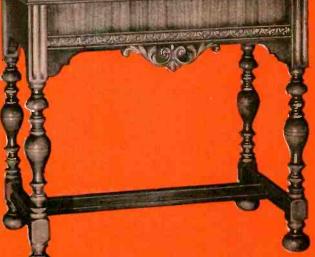
Cabinet receiver (tuned-radio-frequency) with RCA Electro-Dynamic Speaker. Electric operation from house current. Walnut finish.

> A. C. \$215. (less Radiotrons) D. C. \$230. (less Radiotrons)



This sign marks the leading dealer in every community





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RADIO CORPORATION OF AMERICA - NEW YORK - CHICAGO - ATLANTA - DALLAS - SAN FRANCISCO



Products for.

This editorial section is prepared purely as a news service, to keep readers of "Radio Retailing" informed of new products.

New Columbia Radio-Phonograph Combinations

The Columbia Phonograph Company, 1819 Broad-way. New York City, has brought out five new combinations, featuring the Columbia viva-tonal phonograph and the Kolster radio receiver.

Model 961 This model is encased in a Tudor period cabinet, finished in walnut. The record bins are on either side of the grille. The set has three stages of tuned radio frequency and one detec-tor. A drop panel at the top reveals the phonograph and radio controls. It is 40½ in. high and 32§ in. wide. Price, \$600. —Radio Retailing, March, 1929.

MODEL 902 An Italian type cabinet of walnut veneer with overlays of mahogany houses this combina-tion. Two swinging vertical doors expose the grille, electric switch and volume control knobs. At either side of these doors is a drop style record bin, each holding 20 records. Price, \$525. —Radio Retailing, March, 1929.





MODEL 950 (Above) MODEL 950 (Above) This model is a radio, phonograph and escritoire all in one. The set is a six tube Kolster and the phonograph a Columbia electric viva-tonal model with the ten inch dynamic cone speaker above the radio panel. The turn-table is in the drawer beneath the desk with a record bin on either side. It is 62 in. high and 254 in. wide. Price, \$450.— Radio Retailing, March, 1929.



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Cabinets

Four new cabinets have been announced by the Radio Master Corporation, Bay City, Mich. Model 117, illustrated, is built for Eveready set 3. It is made of mahogany and gumwood, fin-ished to match the receiver. The list price is \$25. Model 113, a console for Eveready sets 1 and 2, is made of selected butt and striped walnut plywoods. Price, \$75. Model 150, for Atwater Kent 46, is made of matched butt walnut, has sliding doors and is equipped with proper baffle for the A-K dynamic speaker. Price, \$75. Model 160, is made for Ra-diolas 18 or 60, and is equipped with the Radiola 106 dynamic speaker. The cabinet is walnut and gumwood with doors of butt walnut and satinwood overlays. Price, with speaker, \$120.—Radio Retailing, March, 1929.

Cabinet Speakers

MODEL 931 (Right) This model is encased in a Spanish design cabinet of wal-nut veneer with overlays of rosewood, shaded and toned. The Kolster power cone is located in the center with a record bin on either side. It is 39% in. high and 33% in. wide. Price, \$395.—Radio Retailing, March, 1929.

The new model 15 cabinet speaker announced by the Rola Company, Oakland, Calif., is equipped with the same mag-netic armature unit that is used in model 20, and has a full-floating diaphragm. The cabi-net is of hardwood with walnut finish and is 10¹/₃ in. high by 12 in. wide by 6 in. deep. The in-tended retail price is \$22.50.— Radio Retailing, March, 1929.

Eight-Tube Set

An eight-tube A.C. set with two power tubes in push-pull is now being made by the Sparks - Withington Company, Jackson, Mich. It has the Equa-sonne circuit, a Magnavox dy-namic speaker, and is encased in a cabinet of stump walnut. The intended retail price, com-plete with tubes, is \$189.50.— Radio Retailing, March, 1929.





Cabinet

LaDifiet Illustrated is the latest addi-tion to the line of cabinets of the Aston Cabinet Manufac-turers, 1223 W. Lake Street, Chicago. It is equipped with a phonograph pick-up, which in-cludes an induction type 110 volt A.C. 50-60 cycle electric phonograph motor, 12 in. turn-table, electric pick-up, volume control, adapter, automatic stop, and change-over switch. The set compartment measures 108 in. by 264 in. by 134 in. The in-tended retail price is \$195. Without phonograph equipment, \$125.

\$125. Another new model to accommodate the receiver only, is 48 in. high by 30 in. wide by 18 in. deep. The set compartment measures 13½ in. by 26½ in. by 13½ in. The intended retail price is \$105. — Radio Retailing, March, 1929.

A. C. Heater Tube

The Y227-AC heater type tube, made by the Sonatron Tube Company, 108 W. Lake Street, Chicago, will, according to the manufacturer, heat up in from five to seven seconds. Another feature of this tube is the mica support bridge. The intended retail price is \$4. A new 171AC tube is also an-nounced, to retail at \$3.50.— Radio Retailing, March, 1929.

Sets and Reproducers

A line of reproducers and re-ceivers under the trade name of "Century" has been brought out by the United Research Labora-tories, Inc., 864 W. North Ave-nue, Chicago, III. The A.C. re-ceiver, model 67, is a six-tube set and retails at \$85. The chassis only is \$77.50. The reproducer may be had in two models. The "Purital" in a walnut cabinet, is \$48, and the De Luxe model is \$62.50. Chassis only, \$37.50.—Radio Re-tailing. March, 1929.







Cabinet

A radio cabinet especially de-signed for Atwater Kent sets Nos. 40, 42 or 46, is being made by the Radio Cabinet Manufac-turing Corporation, 666 Lake Shore Drive, Chicago, 111. It is solid walnut on all exposed parts with a 5-ply walnut veneer on the front, top and sides, and an all walnut base. A heavy full-width baffle board is bolted to the cabinet. The intended retail price is \$44.75. —Radio Retailing, March, 1929.

Radio-Phonograph Combination

ComDination The radio receiver of the new Majestic radio-phonograph com-bination made by the Grigsby-Grunow Company, 5801 Dickens Avenue, Chicago, has three stages of tuned radio frequency amplification, using R.F.L bal-anced circuit; two stages of audio amplification, with two 250 type power tubes in the last stage. The cabinet is made of butt burl walnut. The intended retail price is \$265, less tubes. —Radio Retailing, March, 1929.



Electric Motor and **Electric Pick-Up**

The electrical phonograph pick-up made by the L. S. Gor-don Company, 1800 Montrose Avenue, Chicago, may be had in four types. Model B-1, with adaptor for UX and UY tubes, \$6.75; model B-2, for attach-ment to the phonograph tone arm and equipped with volume control and adaptors, \$11.50; model B-4, with tone arm, vol-ume control, and two adaptors, \$12.50; and B-3, same as B-4,

but without volume control, \$8.75. An induction type electric mo-tor, which, according to the maker, will not hum when used in machines having electrical reproduction and amplification, is also available. It operates on 110 volts A.C. and comes com-plete with 12 in. turntable, automatic stop, speed control, etc. and lists at \$37.50.—Radio Retailing, March, 1929.

Cabinet

Caddinet Two features of the cabinet made especially for Atwater Kent set No. 46 by the Pooley Cabinet Company, Indiana Ave-nue and 16th Street, Philadel-phia, Pa., are the baffle board of solid reasonant wood and the shelf which allows the use of either the F-2 or F-2C speaker chassis. It has channeled cor-ner posts, fluted legs, sliding doors and is finished in Amer-ican walnut. The intended re-tail price is \$45.—Radio Retail-ing, March, 1929.



Short Wave Converter

A short wave converter, the "Aero-Call," has been intro-duced by Aero Products, Inc., 4611 E. Ravenswood Avenue, Chicago. It may be used with both A.C. and D.C. sets and plugs into the detector socket. A special filter control is fur-nished to overcome motor-boat-ing. The unit is compact, com-pletely shielded and housed in a browntone cabinet, which is 9 in. by 51 in. by 21 in. The intended retail price, including three types of plug-in coils, is \$25.—Radio Retailing, March, 1929. three \$25.----1929.



Indoor Antenna

The Indoor Antenna Com-pany, 1674 Main Street, Green Bay, Wis., is making the "Duo-Power," an indoor antenna. It is ornamental in design and will work on any set. The intended retail price is \$12,—Radio Re-tailing, March, 1929.

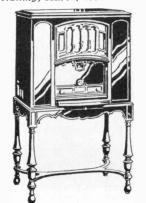


New Temple Line

New Temple Line The new line being introduced by the Temple Corporation, 5253 W. 65th Street, Chicago, Ill., in-cludes two seven tube A.C. sets and a radio-phonograph com-bination. Six 227 type tubes, a 250 power tube in the last audio stage and one rectifier are util-ized. The console model has a 9 in. dynamic speaker and the highboy is equipped with a 14 in. speaker. The console model with doors lists at \$149, less tubes; the highboy model with doors retails for \$189, less tubes. The price of the combi-nation has not been announced. *—Radio Retailing*, March, 1929.

A.C. Receiver

A.C. Receiver The latest addition to the line of the Stromberg-Carlson Tele-phone Manufacturing Company, Rochester, N.Y., is model 638, a console with a built-in electro-dynamic speaker, which is mounted in a specially designed is the same as model 638. The A.C. model the two fre in multiple and in the D.C. roaged in multiple and are lo-cated in the position occupied by A.C. model. A jack is provided in the rear of the chassis frame ondel, four 171-A's are ar-ranged in multiple and are lo-cated in the position occupied by A.C. model. A jack is provided the rear of the chassis frame pick-up plug may be left for pick-up cluses; for 105-125 volt 25-for eycle operation, is \$385, less tubes; and, for operation on to5-125 volts D.C. \$370.-Radio teatiling, March, 1929.



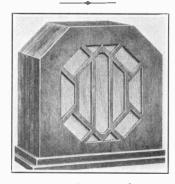
New Lyric Line

New Lyric Line Three new sets are now being made by the All-American Mo-hawk Corporation, 4201 Bel-mont Avenue, Chicago, Ill. Each has three stages of R. F. and two A.F. stages, utilizing four 226 type tubes, two 227's, one 280 and one 250. Model 70, a table set, is in-cased in a cabinet of five-ply walnut veneer. The intended re-tail price, with dynamic speaker in a cabinet to match, is \$150. Model 73, a console, with dynamic speaker, in a five-ply walnut veneer cabinet, is \$157.50. Model 75, a console with dynamic speaker, in a walnut veneer cabinet, 51 in. by 25§ in. by 14§ in., is \$185.—Radio Retailing, March, 1929.



Radio Ground

A radio ground in the form of a cylindrical copper canister, 12 in. long and 4 in. in diameter, is being made by the Radio Research Laboratories, P. O. Box 570, Stockton, Calif. It is filled with a chemical formula which insures a positive and permanent ground, according to the manufacturer. The intended retail price is \$5.—Radio Retail-ing, March, 1929.



Dynamic Speakers

Two new dynamic speakers have been introduced by the Cperadio Manufacturing Com-pany St. Charles, Ill. The Ba-tavia model, illustrated, is housed in a walnut cabinet, and retails at \$32.50. The Aurora model comes in a metal cabinet, clock style, and is \$28. The chassis, mounted complete in a baffle compartment, size 123 in. by 123 in. by 7 in., is \$18.— Radio Retailing, March, 1929.

Radio Retailing, March, 1929



300 Manufacturers to Display New Lines at Trade Show

Four of the principal hotels in Chicago have been engaged for the third annual RMA trade show and fifth annual convention to be held this year in conjunction with the convention of the Music Industries Chamber of Commerce, the week of June 3. Owing to the great demand for exhibition space and the many new lines to be displayed, it has been found necessary to take over the Blackstone and Congress Hotels, in addition to the Stevens Hotel, for the RMA events. The music industry convention will be staged at the Drake Hotel.

Each day during the entire week there will be constant and varied entertainment for the industry guests. The premier event, the annual RMA banquet, will be held in the ballroom of the Stevens.

During the business meetings of the various affiliated associations there will be addresses by prominent industry figures

dresses by prominent industry figures. Special trains will be run from several states. A private section of the Twentieth Century will be chartered from the Atlantic Coast; a special train run from the Pacific Coast and Northwest; and another from the South and Southwest is in prospect. Reduced rates from all points are now being secured.

Music Industries Directors Approve Convention Plans

The convention plans recommended by the Executive Committee were approved at a recent meeting of the board of directors of the Music Industries Chamber of Commerce. The only change from the program of the past year or two will be a conference of all branches of the music industry and delegates of all the radio associations on Tuesday morning, at the Hotel Drake. President Irion of the Chamber will preside.

side. With regard to the tariff hearings, the board instructed the secretary and general manager to appear before the Ways and Means Committee to argue for such changes in tariff rates as the various associations in the Chamber might desire.

Freshman Leases Third Factory

The new factory which the Chas. Freshman Company, New York City, has just leased in Clifton, N. J., has six acres of floor space on one floor. At the present time two factories, one in the Bronx and the other in Brooklyn, with an assembly plant in Chicago, are being operated, and the Freed-Eisemann Company is operating a factory in East New York. It is planned to consolidate the manufacturing operation of both these companies, which will result in more efficient and economical production.

THE ARCTURUS RADIO COMPANY, Newark, N. J., has changed its name to the Arcturus Radio Tube Company. There will be no change in the policy or personnel of the company.





Prosperity Personified

"Bill" Mackle, executive secretary of the St. Louis Radio Trades Association, St. Louis, Mo., now has the seclusion of a private office-roll-top desk, coat rack, thermos bottle an' everything, in the enlarged headquarters of the association.

Thordarson Acquires New Building

The manufacturing space of the Thordarson Electric Manufacturing Company, Chicago, has been increased over 100 per cent with the acquisition of an additional building adjoining its present factory. The combined factory site now occupies onehalf a city block.

As a means of establishing closer contact with its manufacturers and jobbers in the Cleveland section, this company has opened a branch office at 520 Citizen's Building in Cleveland.

Polymet Now in Coil Field

The entrance of the Polymet Manufacturing Corporation, New York, into the coil field has been made with the acquisition of the Coilton Electric Manufacturing Company, Easton, Pa. Under the new direction, it is planned to increase the size of the plant and add from 50 to 100 new double winding machines.

Association Changes Name

In recognition of the fast growing radio industry and as an expression of the desire further to cement the close co-operation between the local electrical and radio industries, the Kansas City Electric Club has changed its name to the Electric and Radio Association of Kansas City. It is anticipated that with the new and broader name, a stronger organization will result.

New York and Chicago Chain Stores Consolidate

The merger of the Walthal Electric Corporation, New York City, and the Wextark Radio Stores, Inc., Chicago, will create, according to the announcement, what is believed to be the largest distributing and merchandising organization in the radio industry. The Walthal company operates eleven retail stores in metropolitan New York and the Wextark company was recently created to consolidate several retail radio companies. Additional units throughout the country will be opened as locations are obtained.

Associated with Walter Nussbaum, president of the Walthal chain, are Charles Izenstark, chairman, and Simon Wexler, president of the Wexler Radio Stores, Inc.

Two Engineers Named to Fill Commission Vacancies

Two new members of the Federal Radio Commission were named by President Coolidge on February 11. They are Arthur Batcheller of Massachusetts, Federal Radio Supervisor with headquarters in New York, to succeed O. H. Caldwell; and Professor C. M. Jansky, Jr., of Minnesota, consulting radio engineer and associate professor in charge of radio engineering at the University of Minnesota, to succeed Samuel Pickard.

The reappointments of Ira E. Robinson of West Virginia, Harold LaFont of Utah and Eugene O. Sykes of Mississippi, were confirmed.

I. H. Hartman Forms Cabinet Co.

The formation of the Radio Cabinet Manufacturing Corporation, Chicago, brings another cabinet manufacturer into the field. I. H. Hartman, who has had long experience in furniture merchandising, is president. The new company will make a line of cabinets for Atwater Kent sets and a plan of co-operation with A-K dealers is now being developed. Associated with Mr. Hartman is Saul Woolf, who is in charge of sales and advertising. Mr. Woolf was formerly president of a Chicago advertising agency.

Ken-Rad Reorganizes

The Ken-Rad Tube and Lamp Corporation has been formed to take over the Ken-Rad Corporation and the Kentucky Electric Lamp Company, both of Owensboro, Ky. The latter is one of five companies holding licenses to produce, under General Electric patents, large tungsten lamps such as are used for general lighting purposes. Both companies will remain in the hands of the original organizers.

THE RADIO-ART CORPORATION, NEW YORK, has decided to market its line of cabinets nationally. Heretofore, this company's activities have been centered around metropolitan New York.

THE TOBE DEUTSCHMANN COMPANY, Canton, Mass., has just released the first issue of its new house organ, "Filterette." This four-page bulletin deals with interference problems and how to treat them. A generous number of diagrams and photos illustrating the use of the various Tobe devices in this connection are included.

Steinite Crusaders on Coastto-Coast Tour

With their trip about two-thirds completed, the Steinite Crusaders, traveling from coast to coast to present the new line of Steinite sets at 44 jobber conventions, have reported tremendous success.

or Steinite sets at 44 jobber conventions, have reported tremendous success. The Crusaders consist of Fred W. Stein, president of the Steinite Manufacturing Company, O. R. Coblentz, sales promotion manager of the Steinite Laboratories, and Fred Welch, of the engineering department.

Fred Welch, of the engineering department. The schedule of the balance of the trip is as follows: March 11, Memphis; March 14, Denver; March 18, Salt Lake City; March 20, Spokane; March 22, Seattle; March 25, Portland, Ore.; March 27, San Francisco; March 29, Los Angeles; and March 30, San Diego.

United Air Cleaner Augments Its Personnel

R. J. Beatty, a prominent member of the steel industry. has purchased the interest of F. R. Nichols in the United Air Cleaner Company, Chicago. The new officers and directors are as follows: R. J. Beatty, chairman of the board; John T. Beatty, president and treasurer; F. F. Paul, vice-president in charge of sales and John Hockery, assistant treasurer.

This concern is introducing to the trade an electric phonograph motor and a phonograph pick-up. Its Sentinel division will soon announce two new radio receivers, it is understood, thus placing the company in a position to furnish complete radiophonograph equipment with the exception of cabinets.

Sonatron Reports Net Earnings

The net earnings of the Sonatron Tube Company, Chicago, for the month of December, 1928, after deducting all charges including Federal income tax, amounted to \$204,337.58, which is equivalent to 70c. per share on the 282,400 shares outstanding, as compared to earnings of about 46c. per share in November, 1928. For the nine months ending December 31, 1928, the total net earnings, after deducting all charges including Federal income tax, amounted to \$666,453.23.

Tube Price Reductions

The Radio Corporation of America, E. T. Cunningham, Inc., DeForest Radio Company, Sonatron Tube Company, Sylvania Products Company and the Gold Seal Electrical Company, have reduced the prices on ten of their tubes. The one exception is the DeForest 401-A tube which remains at \$2.

The new prices are as follows: 226, \$2; 227, \$3; 280, \$3.50; 281, \$7.25; 112-A, \$2.50; 250, \$11; 199, \$2; 171-A, \$2.50; 200-A, \$3.50; and 201-A, \$1.40.

New Temple Factory

A plant is now being completed in Chicago for the Temple Corporation, which recently merged with the Sleeper Radio & Manufacturing Corporation. The new factory is a one-story building of 70,000 square feet and is located at 5253 West 65th Street.

Majestic Window Display Contest

A window display contest limited to Majestic dealers has been announced by the K. W. Radio Company, Inc., 350 Hudson Street, N. Y., Majestic distributor. The

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rules are as follows: only one window may be entered but more than one picture of that window may be submitted; pictures must be accompanied by a short description of the window; windows may be set any time between Feb. 18 and March 16 and all entries must be in by March 20. The windows will be judged according to their sales value. The prizes are, first, \$100; second, \$75, and third, \$25.

Allan Manufacturing Enlarges

Equipment sufficient to warrant the production of 12,000 tubes per day is being installed in the new tube factory of the Allan Manufacturing Company, at East Newark, N. J. This factory, in conjunction with the present plant at Harrison, N. J., will have facilities to warrant a daily output of about 15,000 tubes.

THE COLONIAL RADIO CORPORATION, Long Island City, N. Y., has been granted a license under the patents of the Radio Corporation of America, General Electric Company, Westinghouse and American Telephone and Telegraph Companies.

Radio Shows and Conventions

May 20-25: N.E.M.A. Annual Meeting, The Homestead, Hot Springs, Va. June 2-8: N.E.L.A. National Convention, Atlantic City, N. J.

June 3-8: R.M.A. Trade Show and Convention, Hotel Stevens, and Annual Convention of the Music Industries Chamber of Commerce, Hotel Drake, Chicago.

Drake, Chicago. September 16-21: Fifth Annual Southwest National Radio Exposition, New Coliseum, St. Louis, Mo.

Radio Exposition, New Coliseum, St. Louis, Mo. September 23-28: Sixth Annual Radio Worlds' Fair, Madison Square Garden, New York City. October 21-27: Seventh

October 21-27: Seventh Annual Chicago Radio Show, Coliseum, Chicago, Ill.

Busy Signing Checks



In January, when the Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., first adopted the practice of paying salarles by check, George V. Lennon, treasurer, hardly had time for lunch. But, now, everything is different—an electric check signer has been installed.

Majestic Promoting Home Demonstration Idea

A concentrated effort to encourage the dealer to get his sets into the home and to aid him in closing the sale after the demonstration, is being made by the Grigsby-Grunow Company, Chicago. After the dealer figures his cost of doing

After the dealer figures his cost of doing business and knows how many sets he must sell to clear a profit, he hires the necessary number of salesmen, each working on an individual quota. A home demonstration board, which gives him a complete picture of his outside selling activities, is brought into service at this point. This board has been especially prepared for the campaign and will be sent upon request. On it is each salesman's name with his eight prospect cards hung opposite. As soon as a prospect is sold or has become inactive, the card is removed and a new one put in its place. The idea is to keep eight sets out on demonstration at all times.

To further the plan, this company is promoting "home acceptance" for its representatives by urging radio listeners to accept a free home demonstration so that they will be as welcome in the home as those selling brushes, etc. The sales promotion department is co-operating with every Majestic distributor and field representative in serving the dealer in this campaign.

O. W. Ray Acquires Neon Tube Co.

With the purchase of the A. C. Neon Corporation, New York City, Oscar Willard Ray, who has been connected with the music and radio industries for fifteen years, has entered the radio tube business. He has been elected president of the concern and is now setting up its management policies. James Watters, who has been in charge of sales, continues as vice-president, and Walter Bullock, engineer, is secretary, while the treasurer is Herbert Asher.

New De Forest House Organ

A monthly house organ called "The Grid" is now being published by the De Forest Radio Company, Jersey City, N. J. Explanations of sales policies, advertising and selling suggestions, will be covered from time to time. Personal items, editorials, and a column open to those who wish to express themselves on a pertinent subject, will be regular features.

Open Sales Office

Bert Smith and A. J. Daniels, both of whom were recently associated with Aero Products, Inc., Chicago, have formed the Gotham Engineering and Sales Company at 50 Church Street, New York, acting as manufacturers' agents for the Potter Company, Precise Products, Inc., and Transcontinental Coil, Inc.

THE GREENVILLE CABINET COMPANY, Greenville, Ohio, recently purchased the stock and building of the Universal Cabinet Company of Greenville. The company will make cabinets for radio receivers. The incorporators are C. F. York, Adelbert Martz, George W. Mannix, Jr., J. G. Rogers and L. J. George.

THE GENERAL AMPLIFIER COMPANY, 27 Commercial Avenue, Cambridge, Mass., has been organized by A. R. Wilson, formerly with the engineering department of the General Radio Company. Power amplifiers suitable for public address systems will be made.

Reviews of Recent Books

Yearbook and Diarv

The fifth annual edition of the yearbook and diary published by the Trader Pub-lishing Company, Ltd., St. Bride's House, Fleet Street, London, E.C. 4, is an inter-esting and useful volume of general information of particular interest to the radio industry of England. The book is divided into various sections, chief among which are those devoted to trade informa-tion, technical data, "gramaphones," and and includes several complete lists of English manufacturers, manufacturers' agents, as-sociations, and wholesalers. There is also a 1929 diary. The book sells for \$1.80.

Methods of Retail Management

The McGraw-Hill Book Company, 370 Seventh Avenue, New York, N. Y., has made another addition to its list of books on the subject of modern retailing. "Methods of Retail Management," by William E. Koch, is a thorough study of retail man-agement calculated greatly to increase the merchant's sales and profit-making capacity. Its eighteen chapters cover such topics as : Sales Quotas, Stock Control, Expense Bud-gets, Merchandise Turnover, Inventories, Bookkeeping Systems and Buying. The price of the book is \$3.

Practical Radio

The third edition of "Practical Radio" by James A. Moyer and John F. Wostrel, has been published by the McGraw-Hill Book Company, Inc., 370 Seventh Avenue, New York, N. Y. This is a 5x7½ in. book containing 378 pages. It brings up to date all the information contained in the two all the information contained in the two previous editions and takes up the whole subject of radio broadcasting in a comprehensive manner, explaining all the ap-paratus and the various functions of the associated parts. It is an excellent reference book for the service man. The intended retail price is \$2.50.

A.C. Tubes-How to Use Them

A laboratory treatise on A.C. tubes of the present day entitled, "'A.C. Tubes'— How to Use Them," has been prepared by John F. Rider, and is being sold by the Radio Treatise Company, 270 Madison Avenue, New York, N. Y. This is in the form of a flexible paper cover loose leaf binder, the sheets being mimeographed on standard 8½x11 in. pages. It is very com-pletely written, plentifully interspersed with circuit diagrams, and is an excellent reference book for the service man. tended retail price is \$1. The in-

Storage Batteries Simplified

"Storage Batteries Simplified," by Victor W. Page, is published by the Norman W. Henley Publishing Company, 2 West 45th Street, New York, N. Y. This new and large $5 \ge 7\frac{1}{2}$ in. edition contains 258 pages large 5 x /2 m. edition contains 258 pages and is a complete non-technical treatise on the development of the modern storage battery, outlining the basis operation of the leading type. Methods of construction, charging, maintenance and repair are taken up. The intended retail price is \$2.

THE SULMOCK MANUFACTURING COR-PORATION, Oakland, Calif., recently added 8,000 sq.ft. of space to its plant. Bushnell and Rayner, its sales agents, have closed their Oakland branch and opened new sales and display rooms in the Chronicle Building, San Francisco.



Air-Minded

When Harley Miethe, (right), of the Miethe Motor Company, Georgetown, Ill., needs a Fada set pronto, he flies to Indianapolis, about a hundred miles, returning with the set in less than two hours and a half.

RCA Profit for 1928 Is \$18,983,394

preliminary statement of the operations for 1928 of the Radio Corporation of America, New York, has been issued. It is believed that the final figures will be approximately the same, according to the release.

Gross Income from Sales, Com-munications, Real Estate Operations and Other Income \$100,530,720 Deduct: General Operating and Administrative Expenses, De-preciation, Cost of Sales, Pat-ent Amortization, Estimated Federal Income Tax and Ac-crued Reserve for Year End Adjustments \$81,547,326

Surplus profits for the year ended December 31, 1928.....\$18,983,394

C. M. Tichenor Now with Freshman

Colonel C. M. Tichenor has been elected vice-president in charge of production of the Chas. Freshman Company, New York. He is well known in both the automobile and electrical fields, having been connected with Gray & Davis, the Pierce-Arrow Motor Company, and the Kellogg Switch-board and Supply Company. Pierce-Arrow

Leo Reed, who has been manager of a number of retail radio stores in Pittsburgh for the past several years, has been made director of sales promotion.

THE DAVIS-HUNT COMPANY, Philadelphia, has been formed to take over the sale of Stromberg-Carlson products in that The partnership consists of Rufus city. Davis, who has been a salesman for the Stromberg-Carlson Manufacturing Com-pany in the Philadelphia territory for twelve years, and Clifford Hunt, who comes from St. Louis, where he has had considerable experience as a retail radio salesman.

THE ST. LOUIS RADIO TRADES ASSO-CIATION, St. Louis, Mo., is actively engaged in working for the enactment of a proordinance and state law proposed city hibiting the destroying, removing, con-cealing, altering, etc., of the manufacturer's original number or serial number or other distinguishing mark on radio receivers or other radio devices, and electrical appliances.

Personnel Changes

E. D. LASHBROOK has been made advertising manager and E. O. Hobbs appointed sales promotion manager of the Capehart Automatic Phonograph Corporation. Mr. Lashbrook has been advertising manager of the Holcomb & Hoke Manufacturing Company of Indianapolis for the past eight years.

ALFRED HAND, who has been associated with Thomas A. Edison, Inc., for eight years is now advertising manager of the radio-phonograph division.

HAL P. SHEARER, formerly general manager of the Splitdorf Radio Corporation, ager of the Spintoori Radio Corporation, has assumed duties as vice-president and general manager of the Sleeper Radio & Manufacturing Company. A. N. Clifton formerly with the Alden Manufacturing. Company has been made sales manager.

G. A. THEOBALD, who has in the past been connected with the Western Electric Com-pany and Bell & Howell is now with Bremer-Tully as factory manager.

FRANCIS X. BURNS has severed his connection with the Valley Electric Company of St. Louis to become assistant sales man-ager of the Associated Cabinet Factories in the same city.

A. L. ASHBY has resigned as assistant general attorney of Westinghouse to be-come general attorney of the National Broadcasting Company.

MARTIN COHN, formerly chief engineer and production manager of the Mayolian Corporation, New York, is now president and chief engineer of the Botland Manufacturing Company, New York.

EDWARD T. MAHARIN, who has been special representative for CeCo for the past year, has been made sales and field manager.

MERWYN HEALD, who has held a position in the production and research laboratory of the Thordarson Company in Chicago, has been made chief engineer.

GUY C. KOWFELDT has been made district sales manager for De Forest in Minne-apolis and E. F. Coghlin has been given the same authority in Boston.

NORMAN H. STUMPH has been promoted from a position in the factory of the United Reproducers, to a sales position, and George Dodson has been transferred from the New England territory to Metropolitan Chicago. Mr. Dodson's place is being filled by Charles J. Jones. R. B. Rose has been appointed general

manager of Landay Bros., Inc., in New York.

W. J. VAN LIEW has been made general manager of Steinite's three factories in Atchison, Kan. He started his business career with Fred W. Stein, inventor of the original Steinite set, seven years ago.

WILLIAM H. OGLE, formerly in charge of production and stores, has been made plant superintendent of the Federal Radio Corporation.

FRANK A. RAFFERTY, former director of the Radio Research Laboratories of nova College, has joined Zenith's staff of research engineers.

ROBERT G. KITTLE, who has been asso-ciated with the Benjamin Electric Company for many years, is now with the Paramount Manufacturing Company, Newark, N. J.

EARL S. TEMPLE, formerly with the French Battery Company has joined Fada's sales force, covering the metropolitan New York district.

HAROLD BERMAN is now with Caswell-Runyan on the sales staff, traveling the east coast.

Three Million Sets in 1929 Slogan of FRTA Meeting

Michael Ert was elected to the presidency of the Federated Radio Trade Association at its third annual convention held at the Statler Hotel, Buffalo, N. Y., February 18 and 19. Mr. Ert is past-president of the Association Section of Federated, president of the Wisconsin Radio Trade Association and a distributor of radio products in Milwaukee. He succeeds Harold J. Wrape of St. Louis, who has headed this association since its inception in 1926. Mr. Wrape will occupy the newly created chair of honorary chairman of the board.

Other Elections

The results of the elections for a president of each of the four sections were as follows:

Radio Associations Section—J. Newcomb Blackman, president, Blackman Distributing Company, New York City; Radio Wholesalers Association—Peter Sampson (re-elected), Sampson Electric Company, Chicago; Radio Manufacturers Representatives Association—John Redell, Chicago; and, Radio Retailers Association—H. M. Steussy, Milwaukee.

These gentlemen, with the following group directors, will comprise the governing board of directors for the ensuing year: Radio Associations Section—Herbert C. Wall, Ft. Wayne, Matt Kaemerer, St. Louis, Michael Ert, Milwaukee, Joe Lazar, Chicago, H. H. Cory, Minneapolis; Radio Manufacturers Representatives Association —N. E. Hill, St. Louis, E. E. Healy, Buffalo, G. Spencer Pritchard, Chicago, H. J. Arens, Indianapolis, James M. Bateman, Cleveland; Radio Retailers Association— Julian Sampson, St. Louis, John M. Kibbler, Buffalo, Charles T. Naddy, Columbus, B. M. Furnas, Dayton, Elmer C. Metzger, Buffalo; Radio Wholesalers Association—James Aitken, Toledo, W. H. Roth, Milwaukee, Harry Alter, Chicago, Fred Wiebe, St. Louis, Ernest Ingold, San Francisco.

Harry Alter, Chicago, and H. H. Cory, Minneapolis, were re-elected to the offices of treasurer and secretary, respectively.

Notables Address the Convention

The gathering at Buffalo was noteworthy from a standpoint of attendance and genuine interest displayed. Over 500 registrants listened to addresses by Merlin H. Aylesworth, president of the NBC; Bond P. Geddes, executive vice-president of the RMA; William Hedges, president of the NBA; Judge Van Allen, counsel for RMA; and the chief executives of Federated.

A bright picture of the growth of international amity through the development of trans-oceanic broadcasting was painted by Mr. Aylesworth. "'Three million set sales for '29' should

"'Three million set sales for '29' should be the slogan for the radio industry this year," declared Ray V. Sutliffe, western editor of *Radio Retailing*. He stated that this bogie would represent but a 20 per cent increase over actual sales for 1928. "And we have a potential buying market of 23,-000,000 homes to shoot at."

Group meetings occupied much of the two-day session. These discussions, while covering such vital subjects as trade-ins, financing plans, removal of serial numbers from sets, legislation, the broadcasting situation, credits and cost of distribution and of retailing, were all for the ultimate purpose of accomplishing—profitably—"Three million sets in 1929," the commonly accepted slogan of the convention.

Indicative of the close co-operation which is developing between the RMA and the



MICHAEL ERT Newly Elected President of Federated

FRTA is the invitation from the RMA directors inviting the board of the Federated to attend its meeting at Hot Springs, Va., on March 7 and 8.

A resolution was also adopted at this meeting endorsing the legislative policies of the NBA, which shortly will be presented at Washington. The Federation also favored the passage of state and national laws "prohibiting the concealing, changing or effacement of manufacturers' serial numbers or identification marks upon machines or articles of merchandise (radio sets)."

Radio Commission Extended to Dec. 31

A compromise measure, extending the life of the Federal Radio Commission until December 31, 1929, instead of March 16, 1930, has been passed by the Senate. The House, having already passed the original radio bill, accepted the compromise date. Thus broadcasting control remains with the Commission until the end of this year. If no further legislation is enacted before that time, the administration of radio affairs may revert to the Department of Commerce.

Talking Machine & Radio Men Plan Dance April 1

The annual dinner-dance of Talking Machine & Radio Men, Inc., will be held at the Hotel Commodore, New York City, on April 1. The entertainment committee has secured fifteen dance orchestras to supply the music during the evening's vaudeville offerings. The personnel of the various committees, all under the direction of Byron R. Forster, includes: Chester Abelowitz, Frederick P. Altschul, Henry Benjamin, M. Frank Burns, Harry Fox, Albert Galuchie, William Geng, P. Gillig, David F. Goldman, Otto Goldsmith, Charles Goulding, O. P. Graffen, Benjamin Gross, E. W. Guttenberger, Albert Kendrick, Maurice Landay, Philip Masters, Joseph H. Mayers, S. Platek, Robert M. Richter, T. G. Rockwell, Mortimer Salzman, Irving Sarnoff, William Schneider, Sidney Schutter, George J. Seedman, George Seifert, Benjamin Selvin, Samuel Semel, Jules Smith, Lloyd Spencer, Edward Strauss, A. H. Suchoff, William H. Topping, Arthur A. Trostler, Leonard C. Welling.

THE SONATRON TUBE COMPANY, owing to its increased western business, has acquired a new factory location at Central Park and Filmore Avenue, Chicago. The maximum output for this plant will be 40,000 tubes a day.

McGraw-Hill to Serve Aviation Industry

Aviation, the oldest aeronautical magazine published in this country, has been purchased by the McGraw-Hill Publishing Company, Inc., and will hereafter be issued as a McGraw-Hill magazine. Aviation will be issued weekly, under the supervision of Earl D. Osborn who has been publisher of the magazine for several years.

The aeroplane industry is assuming such broad significance in transportation and air mail, and is becoming useful in so many ways to other industries served by Mc-Graw-Hill papers that it was deemed essential that McGraw-Hill assume responsibility for serving the aviation industry, in order that the aeroplane's influence upon American business and industry might be efficiently reflected through the medium of a McGraw-Hill publication.

In radio, for instance, the aeroplane finds a close ally. Many radio devices are used as signals to guide planes to landing fields, radio beacons are used between the field and the plane, radio transmitters and receivers are the only forms of communication between planes and the earth, and radio manufacturers and jobbers are often using planes for quick delivery of merchandise.

New Power Tubes

A new power amplifier tube for use in the last audio stage for supplying large undistorted output to the speaker, is announced by the Radio Corporation of America, 233 Broadway, New York City. Radiotron UX-245, as the tube is designated, is capable of delivering a power output equal to that of the UX-210, but at a plate voltage not exceeding 250 volts. It is not interchangeable with the UX-171A or any other power amplifier and can be used only with apparatus especially designed for it. A coated ribbon filament is used. The characteristics are: Plate voltage, 180 to 250 volts; negative grid bias, 33 to 50 volts; plate current, 26 to 32 milliamperes; plate resistance, 1950 to 1900 ohms; mutual conductance, 1800 to 1850 micromhos; amplification factor, 3.5; undistorted power output, 750 to 1600 milliwatts; filament, 2.5 volts, 1.5 amperes; max. overall length, 5 in.; diameter 2 fe in.; and standard large UX base. Intended retail price \$4.25.

retail price \$4.25. E. T. Cunningham, Inc., 370 Seventh Avenue, New York, also announces the CX-345 which is similar in characteristics and price to the above.

Form Argon Tube Corporation

The factory of the newly organized Argon Tube Corporation, 102 Livington Street, Newark, N. J., is now in full production. John E. Johnson is president; A. Irving Witz of the Gray Sales Company, New York, is vice-president and sales manager, and Charles G. Kleinwaks has resigned his position as treasurer of the K & H Electric Corporation, to become secretary and treasurer.

THE EBERT FURNITURE COMPANY, Red Lion, Pa., which has been in the furniture manufacturing business since 1854, is now making a line of radio cabinets. Martin J. Polikoff and A. Irving Witz have been appointed national sales agents for the Ebert line.

THE JENSEN RADIO MFG. COMPANY has transferred its experimental laboratory and staff from Oakland, Calif., to the main office at Chicago.

News of Jobbers and Distributors

Proudfit Co. Takes Dealers To Majestic Factory

One hundred and twenty-five Majestic radio dealers from all sections of Nebraska and Kansas recently paid a visit to the factory of the Grigsby-Grunow Company in Chicago. The trip was made through the co-operation of the R. S. Proudfit Company, Lincoln, Neb., Majestic jobber, and the factory. A seven-car special train took the retailers to Chicago. The group went through the factory and

The group went through the factory and then had luncheon. In the afternoon, buses were provided and the dealers were shown the sights of Chicago. The same evening they were entertained at a banquet at the Davis Hotel.

L. E. Noble Guest at Phila. Meeting

The Federal dealer meeting called by R. E. Tongue & Bros., Inc., Philadelphia, had as its guest of honor, Lester E. Noble, president of the Federal Radio Corporation, Mr. Noble outlined his company's policy with regard to protected trade area for its dealers. The new "K" series receivers were shown to the hundred retailers present. R. E. Tongue, Sr., welcomed the delegates. Among the speakers were R. E. Tongue, Jr., W. R. McAllister, Federal sales manager, and Paul Godley, widely known radio amateur. A dinner and two hours of entertainment closed the evening.

Zenith Distributors Meet at Plant

A two-day conference of wholesalers, concerning a special national newspaper campaign concentrating on automatic tuning, was recently held at the plant of the Zenith Radio Corporation, Chicago. It was announced that the new line will be ready for the market in May. Plans for extensive expansion of the present manufacturing facilities are now being made.

THE BENWOOD-LINZE COMPANY, St. Louis, Mo., has appointed Bernard S. Tucker as general sales manager and made Emil A. Reutner promotional sales manager. Mr. Tucker, who joined the organization a few months ago in the sales department, was formerly connected with the Sherman-Clay Company and the California Victor Distributing Company. Mr. Reutner was formerly with the Burgess Battery Company as territorial manager.

THE NORTH WARD RADIO COMPANY, Newark, N. J., Majestic distributor, recently held a window display contest, using its "Herb and Bernie Broadcasting" cards to announce it. A gratifying number of windows were entered and the first prize of \$50 was awarded to the Hurd Radio and Electric Shop, Elizabeth, N. J.

THE HARTEN - KNODEL DISTRIBUTING COMPANY, Cincinnati, Ohio, is now Zenith distributor in that territory. A display room along Egyptian lines is being featured by this company.

HUDSON-ROSS, INC., Chicago, Crosley-Amrad distributor, recently held its annual dealer meeting with over five hundred in attendance. Following the afternoon business meeting, was a banquet and frolic, at which Robert Himmel, president, was presented with a Packard sedan. Charles S. Himmel, vice-president, acted as master of ceremonies and the factory was represented by H. Curtiss Abbott, William H. Lyons and Jack Dalton.

20th Century Corp. Enlarges Staff

Several additions have been made to the personnel of the Twentieth Century Radio Corporation, Brooklyn, N. Y. J. F. McGrath has been made sales manager. He has been with the company for five years, filling successively the positions of assistant to the credit manager, credit manager, and now sales manager. John Campli, formerly with the Wholesale Radio Equipment Company, New York, will take his place.

The following men have been added to the sales force: R. J. Walsh, Theodore Wright, III, H. A. Jacobs, A. G. Autenrieth and Claude F. Williams.

Penn Phonograph Opens New Branch

In order to serve dealers in the central Pennsylania district, the Penn Phonograph Company, Philadelphia, Majestic distributor, has opened a branch at 123 South Second Street, Harrisburg, Pa. The event was celebrated with a meeting, banquet and show. T. W. Barnhill, president, D. Wilson Mayberry, general sales manager, Earl G. Dare, business manager, and Troy B. Wildermuth, Harrisburg branch manager, were among the speakers.

THE APOLLO RADIO Co., INC., Steinite distributor, held its first annual banquet at the Robert Treat Hotel on February 18, attended by 500 dealers. David Slobodien, president, welcomed the guests and Julian Jacobs acted as toastmaster. Among the speakers were Commissioner Brennan, head of Public Safety in Newark, and O. R. Coblentz from the Steinite factory.

Majestic Radio Corp. Holds Dealer Convention

Over 200 Majestic dealers in the Kansas City, Mo., territory attended the afternoon session of the convention held by the Majestic Radio Corporation, and about 465 were present at the evening meeting, which included a dinner and entertainment.

Following the style show, Irving Alter, president of the Majestic Radio Corporation, delivered an address on "Production," and A. E. Warr, the newly appointed sales promotion manager, talked on the company's advertising plans for the coming year. Addresses were also given by representatives from the factory.

Sylvania Holds Two Jobber Meetings

Two sales conferences of the distributors of the Sylvania Products Company, Emporium, Pa., were recently held. The meeting of the eastern division took place at the Hotel Roosevelt, New York, and that of the central and western distributors at the Hotel Stevens, Chicago. Plans for increased advertising and promotional work and more extensive broadcasting activities were announced.

THE BROOKLYN RADIO SERVICE CORPORA-TION, Brooklyn, N. Y., held its first annual dinner and dance on February 24, sponsored by the Brooklyn Radio Employees Association. Among those attending were Benjamin Ginsberg, president, Louis Rubenstein, and Harry G. Mattern, chairman of the entertainment committee.

J. NEWCOMB BLACKMAN of the Blackman Distributing Company, New York, was tendered a testimonial dinner at the Hotel Pennsylvania, on the occasion of his appointment as exclusive distributor of Thomas A. Edison phonograph and radio products.

Art Haugh Proves He Means What He Says



"An idea or an operation," is the ultimatum issued each jobber attending the weekly sales "clinics" of the Peerless division of United Reproducers, Inc., Rochester, N. Y. In Dave Trilling's case, it seemed necessary to operate. Reading from left to right are: Arthur Willis, the Willis Co., Canton, Ohio; John Minton, Peerless; Frank Hutchins, Peerless; Max Fishman, Keystone Radio Co., Pittsburgh; Cal Zamoiski, Jos. M. Zamoiski Co., Baltimore; John S. Maxson, J. S. Maxson Co., Homer, N. Y.; Selden May, president of Peerless; Herman Schultz, H. C. Schultz, Inc., Detroit; Ed Brown, Peerless; "Dr." Art Haugh, vice-president of Peerless; A. J. Kles, Crescent Elec. Supply Co., Dubuque, Ia.; Hollis Vaughan, Wahn Radio Co., Boston; Charles Jones, Peerless; Miton Bickford, Peerless; Fred Schuber, Rochester Auto Parts & Radio Corp., Rochester; The mysterious Mr. X; C. Gomprecht, Trilling & Montague, Philadelphia, taking Mr. Trilling's pulse; A. Z. Heller, York Supply Co., Dayton; Tony Lopez, Peerless; Herb Pollock, Peerless; and, Dave Trilling of Trilling & Montague, Philadelphia, on the operating table.

These specifications are a part of "Radio Retailing's" editorial service. Representation is entirely free of charge. Additions and corrections are always welcomed in order that our records may be at all times complete.

Specifications of PORTABLE and AUTOMATIC Phonographs

Portable Phonographs

Name and Address of Manufacturer	Model Number	List Price	Material of Case Cover	Colors Available	Rec- ord Ca- pacity	Type of Motor	No. 10 In. Records Plays at I-Winding	Electric or Mechanical Pick-up	Overall Dimensions inches	Weight in pounds
Allen-Hough Mfg. Co. 14th and Clark Sts. Racine, Wis. Trade Name—ALLEN	22 25 8 Rotrola r	\$17.50 20.00 25.00 35.00	Fabrikoid Fabrikoid Fabrikoid Fabrikoid or walnut	{ Red, black, blue, brown } Red, blue, black Red, blue	10 15 18 0	1-spring 1-spring 2-spring Electric	2 2 3	Mechanical Mechanical Mechanical Electric	141x111x8 16x71x111 171x81x14 14x12x6	15 16½ 20⅔ 12, 14
Astral Radio Corp. 1812 Chestnut St., Phila., Pa.	1 2	35.00 12.50	Wood Wood	Red, blue, black, B rown	15 None	1-spring 1-spring	2	Mechanical Mechanical	11x11x7 8x8x6	15
Berg A. T. & S. Co., Inc. Long Island City, N. Y. Trade Name—ARTONE	829 529 229 Grand	15.00 20.00 25.00 35.00	Fabrikoid Fabrikoid Fabrikoid Fabrikoid	Black, blue brown, grey, red		Spring Spring Spring Spring	2 to 3 2 to 3 3 to 4 3 to 4	Mechanical Mechanical Mechanical Mechanical	15x123x82 152x132x82 172x132x82 172x133x9 173x132x92	13 15 20 25
Brunswick-Balke-Collender Co. 629 S. Wabash Ave., Chicago, Ill. Trade Name-PANATROPE	106 108	25.00 35.00	Fabrikoid Fabrikoid	Black, blue, Brown	10 10	1-spring 2-spring	23	Mechanical Mechanical	8x15½x12½ 8x16½x15	
Caswell Mfg. Co. St. Paul Ave. at 10th St. Milwaukee, Wis.	12 Melody Gypsy Monarch Aristocrat	12.50 15.00 20.00 25.00 35.00	3 ply veneer	{ Black, brown, blue, red, green Black, brown, blue, red Black	7 18 18 18 18	Spring Spring Spring Spring Spring	1 \$ 1 \$ 2 1	Mechanical Mechanical Mechanical Mechanical Mechanical	43x111x14 7x111x14 73x128x151 93x138x171 10x138x171	1 1 1 3 1 6 2 2 2 5
Columbia Phonograph Co. 1819 Broadway, N. Y. C. Trade Name—COLUMBIA *Synchronous motor	1 20 163 175	25.00 50.00 60.00	Fabrikoid Fabrikoid Fabrikoid	{ Dark brown, black, rhino grain Gray, alligator, Pigskin	6 8 8	1-spring 1-spring *Electric	3	Mechanical Mechanical Mechanical	$9x 12\frac{1}{2}x 16\frac{3}{4}$ $8\frac{1}{16}x 13\frac{5}{16}x 17\frac{1}{16}$ $8\frac{9}{16}x 13\frac{5}{16}x 17\frac{1}{16}$	173 32 32
Edison Inc., Thos. A., Orange, N.J.				Information not availa	ble at	this time.				
Lifton Mfg. Co. 40 West 20th St., N. Y. C.				Information not availa	ble—N	ew mode	ls soon to c	ome out.		
Plaza Music Co. 10 West 20th St., N. Y. C. Trade Name—PAL	Gem Jr. Standard Supreme Regent	13.50 15.00 25.00 30.00 27.50	Fabrikoid Fabrikoid Fabrikoid Fabrikoid Fabrikoid	Red, blue, brown, black, green Red, blue, black, brown Black, gray, brown, blue	12 12 12 12 12 12	Spring Spring Spring 2-spring 2-spring	334444	Mechanical Mechanical Mechanical Mechanical Mechanical	7 1 1 1 2 1 3 2 7 1 1 2 1 4 5 7 2 1 2 1 2 1 4 5 7 2 1 2 1 2 1 5 1 5 2 7 2 1 2 3 1 6 1 5 1 6 1 1 2 3 1 6 5 1 6 5 1 6 1	10½ 12 15¼ 17¾ 17¼
Sonora Phonograph Co. 50 West 57th St., N. Y. C. Trade Name—SONORA	A-10	30.00	Morrocoline	Brown, blue	6	Spring	2	Mechanical	13x173x53	21
Starr Piano Co. Richmond, Ind. Trade Name—STARR	55 56 *Lizard gra	25.00 25.00 in,brown	Leatherode Leatherode , horn back g	{ Black, gray, wine, } blue* }	15 15 grain,	Spring Spring gray-blac	2 2 k, line grai	Mechanical Mechanical n.	81x112x151 81x112x151	18 18
Victor Talking Machine Co. Camden, N. J. Trade Name-VICTOR	2-25 2-55	25.00 35.00	Fabric Fabrikoid	Black Blue, brown	10	Spring Spring		Mechanical	7x163x143 73x16x143	23 24

Automatic Phonographs

6

Name and Address of Manufacturer	Model Number	List Price	Operating Voltage and Frequency	Number of Records It Plays	Both Sides of Record Played Auto- matically	Built-in Coin Collector	Type and Number of Tubes Used	Overall Dimensions inches	Ship- ping Weight, Pounds
Capehart Automatic Phono. Co. Huntington, Ind. Trade Name—ORCHESTROPE	28F Auditorium Park	1,250.00 1,495.00 1,250.00	110 v. 60 cy.	28 28 28	Yes Yes Yes	Built-in at \$20 extra	$\left\{\begin{array}{c} 1-281, \ 2-226, \\ 2-210 \ \text{or} \ 250 \end{array}\right\}$	45x24x49 45x24x49 45x24x49	400 400 400
Gabel's Entertainer Co. 1200 W. Lake St., Chicago, Ill. Note-Anyone of 24 records can be s	A B C	700.00	$\left\{\begin{array}{c} 110v. A.C. or D.C. \\ motor \\ as desired \end{array}\right\}$	24 24 24 24	No No No	Yes Yes Yes	(Mechanical reproduction }	64x38x21 62x38x21 62x38x21	
Holcombe & Hoke 1545 Van Buren St. Indianapolis, Ind. Trade Name—ELECTRAMUSE	Grand Super-Tone		{ 110v. 60-25-40 also D.C. cy. }	10	No No	Yes Yes	{ 1-226, 2-210 } 1-281	26x38x65 26x38x65	400 400
Seeburg Plano Co., J. P. 1508 Dayton St., Chicago, Ill. Trade Name—AUDIOPHONE	Non-amp. Amplified Note-Ope	\$885.00 1,250.00 rator can		8 8 y one of t	No No hese 8 recor	Yes Yes ds and also re	$\left\{\begin{array}{c} 2-210, 1-226, \\ 1-281 \end{array}\right\}$ peat one as many tim	263 x411 x561 263 x411 x561 es as is desire	550 550 d.
Victor Talking Machine Co. Camden, N. J. Trade Name—ORTHOPHONIC ELECTROLA	11-25	550.00 950.00		not avai	lable at this	time.			
Western Electric Piano Co. 850 Blackhawk St., Chicago, Ill. Trade Name—SELECTRAPHONE	A	1,250.00	110 v. 60 cy.	8	Yes	Yes		26½x41½x59½	500
					_				_



"Portable Music" offers a simple and economical means of boosting hot weather volume—how several dealers are making money with portables

> between radio and phonographs and about 15 per cent of the latter consists of portable phonograph sales.

Beers keeps the portables on display in the window all year round, and, since he is located on a fairly busy street, the continuous display makes an impression on a large number of people. Thus, when the summer season arrives, with its opportunities for the use of portable phonographs, these prospects remember the display of portables in the Beers store and go there to

buy. In the course of his long

W ITH the approach of the summer months, the radio trade casts about for allied lines with which to increase hot weather volume.

Portable phonographs is one of the lines which many radio merchants have successfully merchandised during the summer, because of the distinct appeal of these instruments in providing "portable music" for many hot weather activities.

One of the most active merchandisers of portable

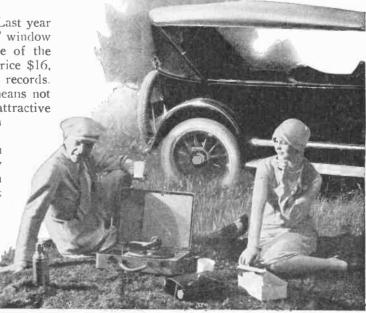
phonographs in Toledo, Ohio, is the United Music Store. Last year it sold 483 of these instruments. It features them in "mass" window displays and in its newspaper copy, not, primarily, because of the direct profit they produce but because each sale, average price \$16, means double that sum, during the following 12 months, in records.

Five hundred new customers a year, from this source, means not less than 2,500 store calls. And 2,500 "exposures" to an attractive array of radio receivers means, it was stated, not less than 60 orders for radio receivers otherwise unobtainable.

United finds that special offers for a limited time, which include half-a-dozen records without extra charge, materially stimulate portable sales. The records used are taken from its slow-moving stock. This practice helps keep record stock clean and up-to-date.

KEEPS PORTABLES ALWAYS ON DISPLAY

A. J. Beers, Inc., 81 Chambers Street, New York, does a profitable business in portable phonographs without any other effort than the display of one or two models in the windows. This dealer's business is divided about equally



Radio Retailing, A McGraw-Hill Publication

Phonographs

for Summer Sales



Portables Sell the Year 'Round-

SPRING... Go after the "young moderns"—particularly students of local 'boys' and girls' school: who are away from home.

SUMMER . . Camps — Qu^{*}ings — Au^{*}omo^{*}biles — Front Porches—Public Amusement Place:

FALL . . School teachers—for classroom and private use—Scholars and parents—Billiard parlors.

WINTER. For clubs and institutions — and in addition to a radio installation for use with ar electric pick-up.



Radio Retailing, March, 1929



Radio Retailing, A McGraw-Hill Publication





What's on the RADIO? Broadcasting Features That Will Help You Sell





Radio broadcast descriptions of sports events always draw crowds to Cortine's, San Antonio, Texas.

"Broadcast Programs of Popular Interest Sell Radio"

Newark, N. J., dealer uses newspaper ads and window displays to tie in with important radio programs.

RADIO programs have come to have a definite importance in the public mind and the growth of the chain features and the broadcasting of special current events have emphasized the quality of entertainment and information which may be picked out of the air. Radio has lost its novelty as a mechanical device and the programs which are being broadcast are now being considered for their own value as entertainment or education

as entertainment or education. Dealers who realize all this and who take advantage of every opportunity to call the attention of the public to these programs have found them to be a valuable selling aid.

For instance, N. A. Davis, manager of the Newark branch of Landay Brothers, music merchants, says:

"It has been our experience that good broadcasting programs of general interest have a definite value in selling radio. When the first big fight was broadcast, we found that customers were very anxious to have sets delivered and installed in their homes in time to be able to tune in on the fight. Hundreds of them made the purchase of the set conditional on this fact. The same thing was true, although not to the same extent, of the world's series baseball games and some of the more important football contests.

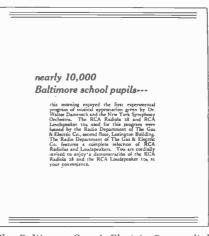
"Furthermore, radio, as is well known, played a very important part in the presidential election. The widespread interest in the campaign speeches so stimulated radio sales that it had the effect of moving our sales peak from December to October. This is a definite indication of what good radio programs of popular appeal will do to improve the sale of sets."

As a result of the experience outlined by Mr. Davis, Landay Brothers call attention, in their newspaper advertising and window displays, to coming programs of popular interest. When an important fight, staged in the open air last summer, was broadcast, Landay Brothers headlined it in its newspaper ads. "Easy chair seats at home for the Tun-

"Easy chair seats at home for the Tunney-Heeney fight and a free pass to all important events on the air for years to come," was the head on one of these advertisements. Another read: "Ringside seats for the whole family and your guests in your own home." Tying in with this advertising, a minia-

Tying in with this advertising, a miniature prize-fighting ring was installed in the window, with a neatly lettered sign calling attention to the date of the occasion, and to the fact that it would be broadcast over the radio.

Mr. Davis makes it a point to be familiar



The Baltimore Gas & Electric Co.. capitalized the Damrosch series in its advertising

with coming sporting events which may be broadcast. He even keeps abreast of the progress of the arrangements being made for the broadcasting.

for the broadcasting. "After all" he said "the great majority of the people to whom we sell are chiefly interested in sports and especially the fights. If they can't go to a fight the next best thing is the radio broadcast description of the encounter. As I mentioned before many of our customers literally fight for the privilege of getting a radio in time to hear the broadcast account of a good fight."

Albert Spalding to Feature Vitaphone Jubilee Hour

Albert Spalding, world famous violinist, will be the star of the next broadcast that the Vitaphone Jubilee Hour will present over stations of the Columbia Broadcasting System, on Monday night, March 11, at 9:30 o'clock, Eastern Standard Time.

Congressmen and Cabinet Members to Debate

A weekly radio forum for the discussion of outstanding political questions of the hour by speakers of national prominence has been arranged by the Washington Star with the co-operation and sponsorship of the Columbia Broadcasting System and will be heard by millions of the American public through a large nation-wide network of broadcasting stations every Saturday night at 10 p.m., E.S.T. Senator William E. Borah, of Idaho, Chairman of the Foreign Relations Committee of the Senate inaugurated the radio discussions on March second.

A short musical program by the United States Army Band will open and conclude each broadcast in this series. The hour, which is to be devoted to the National Forum every Saturday evening, will be about evenly divided between the band and the speakers.

On March 9, speaker Nicholas Long-

worth of the House and Senator George H. Moses of New Hampshire, speaker pro-tem of the Senate, spoke on the approaching special session of Congress.

proaching special session or congress. On Saturday evening, March 16, Senator Charles I. McNary, Republican, of Oregon, and Senator Ellison D. Smith, Democrat, of South Carolina, will debate on agricultural relief. The agricultural situation will be the outstanding issue before the special session and it is understood, by agreement, that legislation looking to agricultural relief will originate in the Senate during the special session.

Representative John N. Garner of Texas, Democratic floor leader, and Representative Willis C. Hawley, Chairman of the Ways and Means Committee, will conduct a National Forum debate on the perplexing tariff problem and the proposed tariff legislation.

Further than this, the schedule has not been arranged since the object is to keep the program open from week to week for the discussion of those problems of national importance which actually arise.

Famous Stars on Sonatron Broadcasts

A new "million dollar" series of radio broadcasts over the Columbia Broadcasting System has been started by the Sonatron Tube Company of Chicago, Ill. Some of the best amusement talent in the country is being drafted to serve on these programs. Irene Bordoni opened the series; other stars who have already signed up are: Ben Bernie, Phil Baker, Helen Morgan, Helen Kane and many others

Helen Kane and many others. The programs are scheduled for Sunday evenings at 8 o'clock, E.S.T.

"Old Counsellor" Programs Now Nationwide

The financial advice of Halsey, Stuart Company's "Old Counsellor," broadcast for nearly a year over the east and midwest networks of the National Broadcasting Company, has been extended to the entire nation.

nation. The "Old Counsellor" broadcasts from coast to coast over the NBC system each Thursday night at 10:00 o'clock, Eastern Standard Time. At irregular intervals he will be replaced by business and financial leaders of the nation, such as have appeared as guest speakers in Halsey, Stuart broadcasts of the past. Features of the Air

On Wednesday, March 13, at 8 p.m., Central Time, the *Indiana Male Quartet* will broadcast from the WBBM Air Theatre, Chicago, Ill. There will be a *Half Hour with Chicago Orchestras* on Friday, March 15, and Saturday, March 16, at 8:30 p.m. * * * *

Future programs on the RMA broadcasting schedule include the National Carbon Company, with its Eveready Hour, on March 12; CeCo Manufacturing Company during the week of March 18; the Grigsby-Grunow Company during the week of March 24, and the Philadelphia Storage Battery Company on April 5.

Williams Syncomatics, musical emissaries of the Williams Oil-O-Matic Heating Corporation, made their bow to radio listeners on February 26 and will broadcast every Tuesday night at 10 p.m., E.S.T., over WJZ and associated stations. Josef Koestner will direct a twenty-five piece novelty concert orchestra during this series.

A new series of broadcasts to be known as *The Temple of the Air* will start early in April over twenty-two key stations of the Columbia Broadcasting System. It is sponsored by the Temple Corporation, of Chicago. * * * *

A rendition of nonsense songs from "Alice in Wonderland" will be the offering of the United Choral Singers in their program over the Columbia Broadcasting System, on Monday, March 11, at 10:30 p.m., Eastern Standard Time.

Sunday at Seth Parker's is the name of a new program which goes on every Sunday night at 10:45 p.m., over the National Broadcasting System of stations headed by WEAF. This program presents a meeting, of a semi-religious nature, of more or less quaint characters from "down east." A mixed quartet, aided by a melodeon, supplies the musical element.

* * * *

The well-known *Locust Sisters*, five of them all told, will be the feature of the next program that the Majestic Theatre of the Air will broadcast over a nation-wide hookup of stations of the Columbia Broadcasting System, on Sunday night, March 10, at 9 o'clock Eastern Standard Time.

Poe's famous poem "The Raven" will be burlesqued as a feature of the hour pro-

League of Nations to Conduct Short-Wave Trials

The League of Nations will conduct a series of short-wave broadcast trials in March, during which programs will be broadcast from Station PCLL. Kootwijk, Holland, to the United States, South America, Japan and Australia. Listeners are asked to send reports on the quality of reception to the Information Section, League of Nations Secretariat, Geneva, Switzerland. The schedule of broadcasts is as follows:

To Be Broadcast to	March, 1929 Day	Duration of Transmission Minutes	Time	Wave- Length Meters
American Continent			5 p. m. EST	
(In English, French and Spanish) Japan	Tues. 12, 19, 26	60		38.8
(In Japanese)	Wed. 13, 20, 27	30	Approx. 1.40-2.10 GMT*	18.4
Austra/asia (In English)	Thurs. 14, 21, 28	30	Approx. 1.40-2.10 GMT*	
* Greenwich Mean Time.			1.40-2.10 G.M.1*	18.4

80

Adventures of Mr. Van Heusen in New Program

A program with a special appeal to men has been inaugurated over the Columbia Broadcasting System on Wednesdays, at 9 p.m., E.S.T., sponsored by the Van Heusen Company.

The central character of this series of broadcasts is Mr. Van Heusen, a popular society man, whose adventures will appeal to every cosmopolitan man. Women, however, will not be neglected, as the Van Heusen series will include music and entertainment that will delight them as well.

gram that the *Ceco Couriers* will present on Monday night, March 11, at 8:30 p.m., E.S.T., over the stations of the Columbia Broadcasting System.

WMCA is broadcasting a series of weekly programs featuring the Vogue Nonpareils, an organization of entertainers sponsored by the Allan Manufacturing Company of Harrison, N. J. The Nonpareils include an orchestra and a group of variety entertainers. They go on the air on Friday evenings, at 10 o'clock,

Mobo Entertainment will begin a new series of broadcasts on Tuesday night, March 12 at 7:30 p.m., E.S.T., when it presents a half hour of musical mirth and melody over stations of the Columbia Broadcasting System.

Mo and Bo, two colored comedians, will introduce the hour, and will then occupy themselves with the automobile of two tourists who will thus be enabled to go to a neighboring restaurant and listen to thirty minutes of up-to-date dance music.

Hank Karch, "banjokester" at WLW, will be heard at that station every Friday at 1:30 p.m., E.S.T., in original musical sketches.

On the evening of April 4, the New Jersey State Chamber of Commerce will hold a "statewide" dinner to inaugurate the magnificent new building of the New Jersey Bell Telephone Company. The dinner will be held concurrently at Newark, Canden, Paterson, Atlantic City, Trenton and Jersey City. The speeches at each of the dinners will be broadcast over a telephone-radio hook-up which will send them out as though they all came from the same gathering. WPG, Atlantic City, and WCAM, Canden, will put the program on the air.

Lucie Stern, Charlotte Simons, Clarence Reinert and Max Aronoff, four star pupils of the Curtis Institute of Music, will present a musical program of solo numbers on Tuesday night, March 12, at 10:00 o'clock, Eastern Standard Time, over the Columbia Broadcasting System.

Erno Rapee is now wielding the baton for the augmented Mobiloil Orchestra in its concerts through WJZ and affiliated station on Wednesday nights, at 8 p.m., E.S.T.

WSB, Atlanta, each Thursday, at 5:30 p.m., is broadcasting a series of talks on gardening. Prominent Georgia women, identified with flower and gardening projects, participate in the programs, which are sponsored by a new Dixie publication, Our Southern Gardens and Homes.

Melodies by the famous German composer, Johannes Brahms, will be featured by KOA, Denver, on Tuesday, March 12, from 3:35 to 4:30 p.m., Mountain Time. The *Music Album Family* will broadcast on Friday, March 15, from 10 to 10:30 p.m.

Timetable of Principal Evening Chain Programs

Use this chart in tuning in for demonstrations—A timetable of morning and afternoon programs will be published next month

		0]	morning	ana ajier	noon pro	grams wit	i de publi	isneu nexi	month		
	Chain	6.00	6.30	7.00	7.30	8.00	8.30	9.00	9.30	10.00	10.30
	NBC (WEAF)	Stetson Parade	Dictagraph Program	Old Co. Songalog	Capitol Family	Capitol (Continued)	Capitol (Continued)	9.15-Atwater Kent Hour	A. K. (Continued)	Studebaker Champions	10.45-Sunda at Parker's
S U N	NBC (WJZ)		Whittall Anglo- Persians	Nomads	At the Baldwin	8.15-Collier's Hour	Collier's Hour (Continued)	9.15-Utica Jubilee Singers	9.45- El Tango Romantico	El Tango (Continued)	National Light Opera
D A Y	Columbia				F. W. Wile	Sonatron Program	La Palina Hour	Majestic Hour	Majestic (Continued)	De Forest Hour	Around the Samovar
	NBC (PACIFIC)	6.15-Atwater Kent Hour	Atwater Kent (Continued)	7.15 Studebaker Champions	7.45-Enna Jettick Melodies						
M	NBC (WEAF)	Waldorf- Astoria Music	Waldorf Music (Continued)	Rudy Vallee Orchestra	James G. MacDonald	Voice of Firestone	A & P Gypsies	A & P (Continued)	General Motors	General Motors (Continued)	Empire Builders
O N D	NBC (WJZ)			South Sea Islanders	Roxy's Gang	Roxy (Continued)		Edison Recorders	Chesebrough Real Folks	Blue Danube Nights	Mılady's Musicians
A Y	Columbia					Kansas School	CeCo Couriers	Phys. Culture Magazine	Vitaphone Hour	Robert Burns Pageant	United Singers
	NBC (PACIFIC)	Edison Program	General Motors	G. M. (Continued)	Empire Builders	Seiger's Symphonists	Symphonists (Continued)	Voice of Firestone	Plantation Echoes	Slumber Hour	
	NBC (WEAF)	Waldorf- Astoria Music	Waldorf Music (Continued)	Voters' Service	Soconyland Sketches	Genia Fonariava	Prophylactic Hour	Eveready Hour	Eveready Hour (Continued)	Cliquot Club Eskimos	The Contraltone 11.00-R-K-C Hour
T U E	NBC (WJZ)	Old Man Sunshine	Savannah Liners Orchestra	Small and Robertson	Funda- mentals of the Law	Stromberg- Carlson	Michelin Men	3-in-1 Theatre	Dutch Master's Minstrels	Williams Syncomatics	Freshman- Freed- Eisemann
U E S D A Y	Columbia				Mobo Entertainers	F. W. Wile and U. S. Band	Wile and U. S. Band (Continued)	Old Gold- Whiteman	Old Gold- Whiteman (Continued)	Voice of Columbia and Curtis Institute	l I-Wrigley'ı Royal Canadians
	NBC (PACIFIC)	Eveready Hour	Eveready (Continued)	Cliquot Club Eskimos	Freshman Orchestra	Jonesy and Mabel	Amaizo's Guitanos			Trocaderans	Trocaderan (Continued)
W E D	NBC (WEAF)	Waldorf- Astoria Music			La Touraine Tableau	Sunkist Serenaders	Kremlin Echoes	Ipana Troubadors	Palmolive Hour	Palmolive Hour (Continued)	Gold Strand Orchestra
	NBC (WJZ)	Park Central Orchestra	Park Central (Continued)	Jeddo Highlanders	7.45-The Political Situation	Mobiloil Orchestra	Sylvania Foresters	Smith Brothers	Cabin Door	The Continentals	11.00 Slumber Music
N E S D A Y	Columbia				·	Hank Simmon's Showboat		Van Heusen Program	La Palina Smoker	Kolster Hour	Daguerreo- types
	NBC (PACIFIC)		Palmolive Hour	Palmolive Hour (Continued)	Gold Strand	Road to Romance	Hill Billies			Trocaderans	Trocaderar (Continued
т	NBC (WEAF)	Waldorf- Astoria Music			Coward Shoe Hour	Forhan's Song Shop	Hoover Sentinels	Seiberling Singers	Rapid Transit	Halsey- Stuart Hour	NBC Concert
H U R S D	NBC (WJZ)	Old Man Sunshine		Talks by Famous Speakers		Lehn and Fink Serenade	Champion Sparkers	Neapolitan Nights	Maxwell House Hour	Mallory Hatters	Sixteen Singers
A Y	Columbia					Sweethearts	Then and Now	Aunt Jemima	Sonora Hour	Columbians	Musical Episode
	NBC (PACIFIC)	Seiberling Singers			Standard Symphony	Symphony (Continued)	Memory Lane	Mem. Lane (Continued)		10-12 Trocaderans	Trocaderar (Continued
	NBC (WEAF)	Waldorf- Astoria Music	Raybestos Twins	Happy Wonder Bakers	Hotel Manger Orchestra	Cities Service Orchestra	Cities Service (Continued)	Evening in Paris	Schrader- town Band	Palais D'Or Orchestra	Half Hour at the Senate
F R I	NBC (WJZ)	Wilson's Novelty Orchest ra	Chopin Eight	The Landt Trio	Dixie's Circus	8.10-Old Man Donaldson	Armstrong Quakers	Wrigley Review	Philco Hour	Hudson- Essex Hour	Phil Spitalny's Music
D A Y	Columbia		6.45 Enna Jettick Melodies			Close-Ups	Veedol Vodvil	True Story Magazine	True Story (Continued)	Kod ak Hour	Night Club Romances
	NBC (PACIFIC)	Wrigley Review	Philco Hour	Hudson- Essex		RCA Hour	RCA Hour (Continued)			10-12 Trocaderans	Trocaderar (Continued)
	NBC (WEAF)	Waldorf- Astoria Music	White House Music	Phil Spitalny's Music	Romance Isle	Lew White Organist	Mildred Hunt	General Electric Symphony		Lucky Strike Orchestra	Lucky Strik (Continued
S A T U R	NBC (WJZ)	Collins Faultless Five	Gold Spot Orchestra	Hotel St. Regis Orchestra	7.45-Dr. Julius Klein	Puroil B a nd	Interwoven Pair	Pan- Americans	The Seven- Elevens	Melodrama	11.00 Slumber Music
D A Y	Columbia									National Forum	
I	NBC (PACIFIC)	G. E. Symphony	G. E. (Continued)	Lucky Strike Orchestra	Lucky Strike (Continued)	The Carnival		Golden Legend	Legend (Continued)	The Big Show	Big Show (Continued

Broadcasting Company chain with WEAF as key station. NBC-WJZ indicates the chain of which WJZ is the key station.

Note-Time figures are for Eastern Standard Time, except for Pacific Coast programs. Time figures then indicate Pacific Coast Standard Time. Radio Retailing, March, 1929

Latest Phonograph Records

Issued by the leading manufacturers

Latest BRUNSWICK Records

Brunswick-Balke-Collender Company, 629 So. Wabash Avenue, Chicago, Ill.

Record

- Title and Recorder
- 283 Shanghai Rooster Mike, the Turk—Dusty Rhodes and His Guitar
 285 Never Alone Waltz Texas Quick Step—The Red Headed Fiddlers.

- Fiddlers.
 287 Ninety-Fifth The Christians' Hope—Denson's Sac-red Harp Singers
 289 The Bluebird Waltz Irene Waltz—The Collier Trio
 290 Hard Cider Song Rosalee—Crockett Family Mountain-eers
 291 Medley of Old Time Dance Tunes— Part I Medley of Old Time Dance Tunes— Part II—Crockett Family Moun-taineers

- Medley of Old Time Dance Tunes— Part II—Crockett Family Moun-taineers
 292 I'm The Child to Fight Buddy, Won't You Roll Down the Line—Uncle Dave Macon
 293 Go and Leave Me If You Wish To Birmingham Jail—Lester McFarland and Robert A. Gardner
 4100 A Night at Coffee Dan's—Part I A Night at Coffee Dan's—Part II— Frank Shaw
 4131 Who Wouldn't Be Jealous of You? Rose of Mandalay—Ray Miller and His Orchestra
 4143 Come on Baby! Some of These Days—Allister Wylic and His Coronado Hotel Orchestra
 4159 We'll Have a New Home Comin Home—The Rollickers
 4165 Andantino Fifth Nocturne—Godfrey Ludlow
 4166 Little Town in the Ould Country Down Lassie O' Mine—Frank Munn

- Fifth Nocturne—Godfrey Ludlow
 Fifth Nocturne—Godfrey Ludlow
 4166 Little Town in the Ould Country Down
 Lassie O' Mine—Frank Munn
 4167 I'll Take You Home Again Kathleen Somewhere a Voice Is Calling— Frank Munn
 4168 I'll Get By
 Glad Rag Doll—Ben Bernie and His Hotel Roosevelt Orchestra
 4169 No Other Love The Glory of Spring—Wirges and His Orchestra
 4171 When the World is at Rest I'll Never Ask for More—Nick Lucas
 4172 La Rosita Querida—Lawrence Salerno
 4173 You're the Cream in My Coffee

- 4172 La Rosita Merence Salerno Querida—Lawrence Salerno
 4173 You're the Cream in My Coffee She's Funny That Way—Harry Richman
 4174 In the Big Rock Candy Mountains Who Said I Was a Bum?—Wendell Hall
 4175 Won't You Tell Me, Hon? Give Your Little Baby Lots of Lovin' —Abe Lyman and His California Orchestra
 4178 Why Did You Make Believe? Somebody Loves Me—Freddie Rose
 4179 Caressing You Don't Remind Me—Meyer Davis' Swanee Syncopators
 4185 I'm Sorry Sally Where the Shy Little Violets Grow—Earl Burtnett's Biltmore Trio
 4186 All By Yourself in the Moonlight "Monna Vanna" Colonial Club Orchestra
 4187 How Long, How Long Blues My Kinda Love—Walter Barnes and His Royal Creolians
 4188 The Monte Carlo Song I'm Wild About Horns on Automobiles That Go "Ta-ta-ta-ta-"—The Yacht Club Boys

- Avalon Town—Colonial Club Orchestra
 4190 Im Telling You

 Found You Out When I Found You
 In—Tom Gerunovich and His Roof
 Garden Orchestra

 4191 Ring Dem Heavenly Bells

 Hide Away—Frank and James Mc-Cravy

 4192 I Faw Down An' Go Boom

 Sweethearts on Parade—Dick Robertson

- Sweethearts on Parade—Dick Robert-son
 4193 Happy Humming Bird Susianna—Colonial Club Orchestra
 4194 No One In The World But You Mississippi, Here I Am—Ray Miller and His Orchestra
 4195 No Hiding Place Down There Dip Me in the Golden Sea—Frank and James McCravy
 4196 I Faw Down An' Go Boom—Six Jumping Jacks Guess Who!—The Clevelanders
 4197 Makin' Whoopee Don't Be Like That—Harry Richman
 4198 The Spell of the Blues You'll Never Know—Jesse Stafford and His Archestra. Vocal chorus by Leon Luccas
 4199 Fashionette and His Archestra. Vocal chorus by Leon Lucas 4199 Fashionette Sweetheart of All My Dreams—Joc Rines and His Orchestra 4200 Futuristic Rhythm Out Where The Blue Begins.—Hotsy Totsy Gang 4201 My Man I Love You—The Blackstone Trio 4205 What a Girl! What a Night! Honey—The Clevelanders 4206 Poor Punchinello Loneliness—Waltzes—Regent Club Orchestra 4208 Stout Hearted Men Softly, as in a Morning Sunrise— William O'Neal 4209 A Precious Little Thing Called Love —Danny Sharon My Mother's Eyes—Frank Munn 4210 One Kiss Lover, Come Back to Me!—Louis Katzman and His Salon Orchestra 4211 Singapore Sal Rosemary—Jack Parker 4213 My Man I'd Rather Be Blue with You—

- My Man I'd Rather Be Blue with You-Louis Katzman and the Brunswick Orchestra One Kiss-Hal Kemp and His Or-
- 4216 One Kiss chestra Lover. Come Back to Me!—Louis Katzman and the Brunswick Or-chestra
- Redskin Dardanella—Louis Katzman and the Brunswick Orchestra 4218
- 4223
- In A Great Big Way Let's Sit And Talk About You-Ray Miller and His Orchestra Obertass Mazurka-Op. 19. Military Caprice-No. 14-Alexander Sebald 4225

- Miniary Caprice—No. 14—Alexander Sebald
 4226 Devil's Trill—Parts I and II— Alexander Sebald
 4227 Devil's Trill—Parts III and IV— Alexander Sebald
 4230 That's the Good Old Sunny South If I Had You—June Pursell
 4231 You Were Meant For Me Broadway Melody—Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra
 4232 Wedding of the Painted Doll Love Boat—Earl Burtnett and His Los Angeles Biltmore Hotel Or-chestra
 15195 Cradle Song

- chestra 15195 Cradle Song Oh Promise Me—Marie Morriscy 15196 Nightingale Song By the Waters of Minnetonka— Florence Easton 50154 Freischutz—Agath's Prayer Otello—Ave Maria—Rethberg 57004 Broken Life On the Embankments of Manchuria —Peter Bijo's Bulalaika Orchestra

4189 If I Had You Avalon Town—Colonial Club Orches- Latest COLUMBIA Records

Columbia Phonograph Company 1819 Broadway, New York City

1819 Broadway, New York City
Record
No. Title and Recorder
Set No. 104 (\$10.50) Tschaikowsky: Symphony No. 5, in E Minor, Op. 64 in Thirteen
Parts, on Seven Twelve-inch Records—with Album.
Tschaikowsky: Valse, from Serenade for
Strings, Op. 48.
By Willem Mengelberg and Concertgebouw Orchestra of Amsterdam.
Set No. 105 (\$4.50) Mozart: Symphony
No. 39, in E Flat: Op. 543 in Six Parts,
on Three Twelve-Inch Records—with Album.
By Felix Weingartner and Royal Philharmonic Orchestra.
178-M Honey—Babee
Love's Like a Rosebud—Martha
Attwood
179-M Seven Variations on a theme by
Mozart—Parts 1 and 2
(Beethoven)—Felix Salmond
180-M Seven Variations on a theme by
Mozart—Parts 3 and 4
(Beethoven)—Felix Salmond
181-M Valse Bluette
Orientale—Efrem Zimbalist
1709-D Glad Rag Doll
When the Curtain Comes Down—
Ted Lewis and His Band
1710-D That's How 1 Feel About You
I Want a 'Yee' Girl—Ed Loury
1711-D The Song I Love
My Tonia—James Melton
1712-D The Mule Song
Sippin' Cider—Vernon Dalhart
1713-D Let's Sit and Talk About You
As Long as We Are in Love—
Fred Rich and His Orchestra
1714-D Dalley Paskman's Radio Minstrels
—Parts 1 and 2.
1715-D Sleep, Baby, Sleep
Alice in Wonderland—Vaughn De
Leath
1716-D Where the Shy Little Violets Grow
You Are My Own—Lee Morse and
Her Rhue Grass Boys
1717-D Mississippi
A precious Little Thing Called
Love—Ipana Troubadours
1718-D Olaf (You Ought-a Hear Olaf
Laff)
In a Little Town Called Home—
Sweet Home — Clicquot Club
Faskimos

- Love—Ipana Troubadoirs of the 1718-D Olaf (You Ought-a Hear Olaf Laff) In a Little Town Called Home— Sweet Home—Clicquot Club Eskimos 1719-D Carolina Moon. Waltz If I Had You—Ben Selvin and His Orchestra 1720-D Dream Train I Get the Blues When It Rains— Ford and Glenn 1721-D Please Let Me Dream in Your Arms Baby!—Guy Lombardo and His Royal Canadians 1722-D Love's First Kiss Heart O' Mine—Milton Watson 1723-D How About Me? Cradle of Love—Paul Whiteman and His Orchestra 1725-D Ai Suzette Mamzelle Zizi—Edna Thomas 1730-D Sweethearts on Parade I'm Sorry Sally—Pipe Organ Solos Milton Charles 1732-D Carolina Moon Marisane—Paul Whiteman and His Orchestra 1732-D Carolina Moon Mississippi—Creole Crooner 1733-D Glad Rag Doll I'll Get By—Ruth Etting 1734-D I Faw Down an 'Go Boom! Atlanta Gal—Charles Fulcher and His Orchestra 1735-D Have You Ever Felt that Way? If You Like Me Like I Like You— Clarence Williams' Jazz Kings Radio Retailing. A McGraw-Hill Publication

Radio Retailing, A McGraw-Hill Publication

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- 1736-D My Lucky Star Button Up Your Overcoat—Paul Whiteman and His Orchestra
 1737-D If I Had You That's the Good Old Sunny South —Irving Kaufman
 1738-D Broadway Melody—Ben Selvin and His Orchestra You Were Ment for Me—Broad-way Nitelites
 1739-D Redskin—Ben Selvin and His Orchestra
 1740-D Weddin: Bells (Are Breaking Up That Old Gang of Mine)—Fred Rich and His Orchestra Guess Who?—Jan Garber and His Orchestra
 14393-D Just It How Long Baby?—William McCoy
 38010-F Tango of the Death Marenka Polka L. Cavadias' Greek Scatette
 38011-F Proposal of Love The Midnight Waltz—Nullo Ro-mani and Italian Orchestra
 50120-D Carry Me Back to Old Virginny Old Folks at Home—Sophie Bras-lau
 50121-D Faus: Air des Bijoux

- 50121-D Faust: Air des Bijoux La Danza (Rossini)—Maria Kur-enko 50122-D Radetzky (March J. Strauss; Op. 228)
- 50122-D Radetzky (March J. Strauss; Op. 228)
 Feuergest (J. Strauss; Op. 269)— Johann Strauss and Symphony Orchestra
 50123-D Pique Dame: Overture—Parts 1 and 2 (Von Suppé)— Bourne-mouth Municipal Orchestra Con-ducted by Sir Dan Godfrey
 50124-D By the Blue Hawaiian Waters Jungle Drums (Ketelbey)—Band of H. M. Grenadier Guards
 50125-D Toccata (Boëlmann) Toccata (Gigout), Organ Solos— Edouard Conmette recorded in St. Jean Cathedral, Lyons, France
 50126-D Hear Me, Ye Winds and Waves Ombra Mai Fu, from "Xerese" (Handel)—Fraser Gange
 50127-D Variations on a Theme by Corelli Caprice Viennois—Naoum Blinder
 50128-D Aida: Grand March—Parts 1 and 2 (Verdi)—Milan Symphony Or-chestra with Chorus
 67469-D Lohengrin: Prelude—Part 1 Lohengrin: Prelude—Part 1 Lohengrin: Prelude—Part 2—By Artur Bodanzky and Symphony Orchestra

Latest EDISON Records

- Thomas A. Edison, Inc., Orange, N. J.
- Record
- Title and Recorder No.

- No. Title and Recorder
 52435 My Jesus, As Thou Wilt What Will You Do with Jesus?— Metropolitan Quartet
 52457 Polly-Wolly-Doodle Eleven Cent Cotton—Vernon Dalhart and Company
 52467 His Eye Is on the Sparrow Ivory Palaces—Arthur Billings Hunt
 52485 Live and Love Sleepy Valley—Frank Munn
 52486 Please Let Me Dream in Your Arms Glad Rag Doll—Golden Gate Orches-tra
- Glad Rag Doll—Golden Gate Orcnestra
 Goodbye, Dear Old Step Stone All I've Got's Gone—Ernest V. Stone-man and His Dixie Mountaineers
 52490 My Dreaming of You Poor Man's Blues—Frankie Marvin
 52492 I'll Get By How About Me?—Muriel Pollack
 52493 Sally of My Dreams Little Baby Curls—Walter Scanlan
 52494 Comin' Home Sweet Little Lady of Mine—The Rol-lickers

- 52495 Give Your Little Baby Lots of Lovin' That's Her Now !-The 7 Blue Babies 52497 The Spinning Song Spring Song—Edison Concert Orches-

- Spring Song—Latison Content Orches-tra
 52498 My Inspiration Is You Caressing You—Mike Speciale and His Orchestra
 52499 Floggan Reel The Trip to the Cottage—John J. Kimmel
 52501 Bo-Peep—(Intermezzo) A Dream—Murray Kellner's Dinner Music Ensemble
 52502 Hymn to the Sun Song of India—Arcade Birkenholz
 52503 All by Yourself in the Moonlight What Good Is a Sandwich if It Hasn't Any Bread?—Jack Parker and Will Donaldson
- Radio Retailing, March, 1929

- 52504 Daddy Little Boy Blue—Edith Thayer
 52505 Mia Bella Rosa (My Beautiful Rose) Let's Do It (Let's Fall in Love)— B. A. Rolfe and His Orchestra
 52506 Sweethearts on Parade I'll Never Ask for More—Golden Gate Orchestra
 52508 I'm Wild About Horns on Automo-biles that Go 'Ta-Ta-Ta-Ta' I Love to Bumpity Bump on a Bumpy Road with You—Jack Dalton and the 7 Blue Babies
 52509 Hey Rube When He's All Dolled Up He's the Best Dressed Man in Town—Bob Pierce and the Cornhuskers
 52510 The Toymakers Dream Underneath the Russian Moon—B. A. Rolfe and His Orchestra
 52511 Killarney, My Home O'er the Sea Walter Scanlan's Irish Medley— Walter Scanlan's Irish Medley— Walter Scanlan
 52517 Me and the Man in the Moon Happy Days and Lonely Nights— Vaughn De Leath
 52519 Is There Anything Wrong in That? Good Little Bad Little You—Ermine Calloway

Latest VICTOR Records

Victor Talking Machine Co., Camden, N. J.

- Record No. Title and Recorder

- No. Title and Recorder
 1364 Caprice in E Flat Major Vocalise—Mischa Elman
 1365 The Blind Ploughman Oh! Could I But Express in Song —Feodor Chaliapin
 3051 Rigoletto—Veglia o donna Rigoletto—Veglia o donna Rigoletto Piangi, fanciulla— Amelita Galli-Curci Ginseppe De Luca

- *De Luca*6903 Wiener Blut Fruhlingsstimmen (Strauss)—Bos-ton Symphony Orchestra
 6905 Mignon—Ahl, Non Crede Vi Tu— Beniamino Gigli
 6906 Leonore Overture, No. 3—Part 1 Leonore Overture, No. 3—Part 1 (Beethoven, Op. 72)—San Fran-cisco Symphony Orchestra.
 6907 Leonore Overture, No. 3—Part 3 (Beethoven, Op. 72)—San Fran-cisco Symphony Orchestra
 9087 Leonore Overture, No. 3—Part 4 (Beethoven, Op. 72)—San Fran-cisco Symphony Orchestra
 9297 Lasca
- 9297 Lasca Pinto Ben—William S. Hart 1421 The Old Chisholm Trail Red River Valley—"Mac" (Harry McClintock) and His Haywire 21421

- 21421 The Ont Chinom Mathematical Mathematical Sciences (Harry McClintock) and His Haywire Orchestra
 21775 One Kiss—The Tronbadours Softly, as in a Morning Sunrise—Nat Shilkret and the Victor Orchestra
 21776 Lover, Come Back to Me! Marianne—Viotor Arden—Phil Ohman and Their Orchestra
 21838 Where Is the Song of Songs for Me?—Johnny Hamp's Kentucky Screnaders
 21841 Onward, Christian Soldiers Battle Hymn of the Republic—Victor Mixed Chorus
 21842 Balm in Gilead Leaning on the Lord—Utica Institute Jubilee Singers
 21843 American Spirit Army Band
 21844 You're the Cream in My Coffee Me and the Man in the Moon—Jesse Crawford
 21845 When the World Is at Rest In a Little Town Called Home Sweet Home—George Olsen and His Music
 21847 When Summer Is Gone—Nat Shilkrei and the Victor Orchestra

- His Music
 21847 When Summer Is Gone—Nat Shil-kret and the Victor Orchestra Carolina Moon—The Troubadours
 21848 When the World Is at Rest—Chick Endor
 Evrybody Loves You—Aileen Stan-ley—Johnny Marvin
 21849 Little Irish Rose Rosemary—Morton Downey
 21850 I'll Get by as Long as I Have You How About Me-Jesse Crawford
 21851 All by Yourself in the Moonlight Sweetheart of All My Dreams— Johnny Marvin

- 21852 My Mother's Eyes When the Curtain Comes Down— George Jessel
 21853 She's Funny That Way Jean Goldkette and His Orchestra Dream Train—Nat Shilkret and the Victor Orchestra
 21854 You're the Cream in My Coffee— Gladys Rice-Franklyn Baur I'm Bringing a Red, Red Rose— Franklyn Baur
 21855 Glad Rag Doll—Nat Shilkret and the Victor Orchestra I'll Never Ask for More—George Olsen and His Music
 21856 Weary River
- Olsen and His Music
 Olsen and His Music
 21856 Weary River
 The Song I Love—Gene Austin
 21857 Sally of My Dreams—Ben Pollack and His Park Central Orchestra
 My Mother's Eyes—Waring's Penn-sylvanians
 21859 You Wouldn't Fool Me, Would You?
 I Want to Be Bad—Nat Shilkret and the Victor Orchestra
 21860 Fill Always be in Love with You My Inspiration Is You Morton Downey
 21861 Button Up Your Overcoat My Lucky Star—Warin's Pennsyl-vanians

- 21861 Button Up Your Overcoat My Lucky Star—Warin's Pennsyl-vanians
 21862 I Faw Down An' Go Boom! Eddie Cantor's "Automobile Horn" Song—Eddie Cantor i
 21863 Button Up Your Overcoat I Want to Be Bad—Helen Kane
 21866 If I Had You—Willard Robinson The Sun is at My Window—Johnny Marvin—Ed Smalle
 21867 If I Had You—
 All By Yourself in the Moonlight— Irving Aaronson and His Com-manders
 21868 Weary River Deep Night—Rudy Vallee and His Connecticut Yankees
 21869 Sweet Suzanne Honey—Ruby Vallee and His Con-necticut Yankees
 21895 Largo (from "Xerxes"—Handel) Funeral March (Chopin, Op. 35)— Mark Andrews

What Will the Tube Decision Mean to the Trade? (Continued from page 53) a nominal royalty but without restriction

upon production. Inasmuch as certain of the tube patents owned by the Radio Corporation have never been adjudicated (although many have already been passed upon by the courts) the basis of such a license from the RCA is declared to be indefinite. Cer-tain independent manufacturers, therefore, look doubtfully on such licenses fealing

look doubtfully on such licenses, feeling that there may be no necessity for an independent manufacturer of tubes to take out a license because of patent control. A third and somewhat surprising point of view is presented by another independent, who has declared to a representative of this publication that even though no license

may be required for reasons of patent con-

may be required for reasons of patent con-trol, such a license might be deemed highly desirable because of the commercial advan-tages offered. For it is entirely possible, according to this observer, for a large company possessing valuable resources of good will, and facilities for research, dis-tribution, publicity and other services to

tribution, publicity and other services, to build up a license system based entirely on commercial considerations and desired by

the licensee for reasons of practical expedi-Such a license would be voluntarily

self-imposed by the licensee. Many other

sen-imposed by the incensee. Many other independents, however, do not consider such a possibility at all seriously. Here then are the three points of view regarding the license situation in the radio tube field. Two of the alternatives depend upon the desicion pow in the breast of the

upon the decision now in the breast of the court. The third is merely a matter of

The situation possesses elements of great It will be watched with deep con-

83

commercial development.

cern by the entire industry.

upon production.

ency.

interest.

your money's worth in musical performance

ONE Fidelity . . . the master salesman of radio . . . is the constant companion of the Thordarson equipped receiver. A snap of the switch . . . a turn of the dial ... and his message begins. He collects no commissions . . . has no expense account, yet works unceasingly, delivering his message of quality reproduction to everyone within earshot. Without his effortless activity the set manufacturer's days are numbered, for the public will accept no substitute for Tone Fidelity.

It is significant that the manufacturers of the world's finest radio receivers almost universally have selected Thordarson power supply and audio transformers to carry this message of tonal purity into millions of homes.

Whether you are engaged in building, selling or buying radio receivers, remember this: Thordarson power supply and audio equipment spells quality reproduction.

THORDARSON ELECTRIC MANUFACTURING CO.

TRANSFORMER SPECIALISTS SINCE 1895 Huron, Kingsbury and Larrabee Sts., Chicago

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The Finest Receivers Are Thordarson Equipped

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EQUIPPED WITH

84





Should the Set Manufacturer Make **His Own Parts?**

By Chester Hjurtur Thordarson President, Thordarson Electric Manufacturing Company, Chicago, Ill.

WHAT is the place of the maker of W quality standard parts in the present-day economics of radio set manufacturing? Should set manufacturers build their own parts-such as transformer, condensers and resistances-or should these be purchased from manufacturers specializing in them? Viewing this matter in the light of re-

cent developments it is apparent that the very simplicity of the modern set, from the user's standpoint, has increased the complexity of its engineering and manufacturing requirements. Exactitude is a vital factor in the production of today's receivers.

The one-dial set is, therefore, a complex, delicately balanced, precision instrument; an assembly of a series of precision parts furnished, as a rule, by a group of secondary manufacturers who are specialists in their own fields. The majority of the finest instruments that the industry produces rep-resent, in other words, the combined efforts of a number of specialized organizations, each highly developed in the technicalities of engineering and of production. In this respect the situation is not unlike that of the automobile industry.

Will it be advisable to continue this arrangement? I see five major zeasons for the affirmative: It-

1.

Saves money. Establishes a definite cost basis. 2 3. Permits greater manufacturing lati-

tude.

4. Offers better engineering facilities. 5. Makes possible the use of the estab-lished prestige of nationally advertised

parts. It is logical to believe that the quantity production of a parts specialist supplying a large group of receiver manufacturers will make for a much lower price per unit than the set manufacturer himself could hope to attain. This is accomplished by reducing the set manufacturer's factory space, raw material inventory, labor over-head and production spoilage. Such a policy also relieves the set concern of the burden of carrying parts materials over from one season to another, or of being unable to obtain the required essentials during the height of the season. The parts specialist is closer to these sources of supply than is the set manufacturer, as many of the latter learned during 1928.

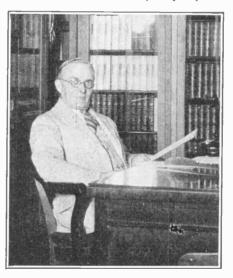
Again, the processing of such delicate and highly technical parts as audio trans-formers in the hands of a set producer would result in a larger percentage of goods spoiled than with the transformer specialist. The experience, special produc-tion methods and labor elements would account for this. Second, the purchase of built-up parts

EDITOR'S NOTE: The columns of this department are open to those who may wish to amplify or dispute Mr. Thordarson's contentions.

Radio Retailing. March, 1927

automatically establishes a definite cost basis. This is much more difficult to determine with home manufacturing due to the many variable and intangible features involved.

The inertia of production is a vital factor which is frequently overlooked when con-sidering point three. It takes time to start the wheels of production or to change their speed. A set concern making its own transformers may start with production facil-tities considered ample for the coming year. Almost over night, its sales department may be flooded with orders; unfillable because of the time required to obtain addi-tional special machinery, raw materials and trained labor. Both an increase or de-crease of demand is more quickly adjusted



About Mr. Thordarson

The author of this article, Chester Hjurtur Thordarson, was born in Iceland. He came to this country when in his 'teens and by dint of hard work and self-education has raised himself to a position of eminence in the radio and electrical industries. Mr. Thordarson is an indefatigable reader. He owns one of the most complete collections of scientific treatises in the world. His library, at the Thordarson plant, is valued at \$500,000.

if parts of the type under discussion are being obtained from a reputable specialist.

Now let us look at the situation from the engineering standpoint. It is casting no reflection upon any technician with a set manufacturer to claim that an engineer working year after year on a specialized parts problem should know more about its characteristics than his brother graduate who is working in a broader field. Therefore the set manufacturer who buys from a parts organization whose reputation is established is reasonably assured of better

design and performance than can be obtained through home production. Likewise no delay is required for general research and experimental development.

The average set engineer should endorse this contention, for, during the stress of the yearly-or bi-yearly-designing period he has little enough time for sleep and rehas little enough time for sleep and re-freshment as it is. Furthermore the parts specialist is generally admitted into the sanctorum sanctorum of the engineering laboratories of his customers, and although he holds inviolate the secret developments entrusted to his care, he is, nevertheless in a position to make many valuable suggestions.

Lastly, the sales department also profits. Just as the automobile salesman points with pride to the merits of standard equipment -ignition, bearings, carburetor, etc., all made by specialist manufacturers, so can the set salesman cash in on the value of nationally advertised parts of recognized quality which grace his product.

If the preceding be sound logic, it leads to the conclusion that the set user also will benefit from specialization production meth-ods. The more satisfactory the ultimate performance is, the more will the radio industry as a whole gain in repute, and just that much more will it progress and prosper.

Accurate Control of Output Voltages Insured by New A.C. Voltage Regulator

A vital and fundamental problem in the design of A.C. electric receivers, the autouesign of A.C. electric receivers, the auto-matic control of line voltage surges and variations which work havoc with tubes, has finally been solved, according to an announcement made by Dawson J. Burns of the Ward Leonard Electric Co., Mount Vernon N V Vernon, N. Y. The device developed by Ward Leonard

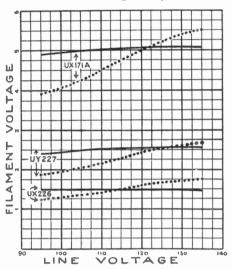
engineers after nearly three years of labora-tory work is an instantaneously acting magnetic device, without moving parts, which supplants the present power trans-former. In commercial form it is not appreciably larger than the usual power supply transformer. It performs the double function of transformer and automatic A.C.

voltage regulator. The new regulator unit has a number of unique features which taken together make it invaluable in the design of more efficient electric radio receivers. Under extended tests the unit has proved remark-ably efficient in accurately controlling out-put voltages despite wide variations and surges in line voltage. The perfect operating range of the device for general radio use is from 95 to 135 volts. Should line voltage rise above the latter figure, control becomes negative; that is, output voltages actually are slightly less than normal. Thus, beclue control to all compositions of the state of the second state absolute protection is given to all com-ponents without loss in tonal quality. The 226 type tube has a normal filament requirement of 1.5 volts, and the 227 detector type calls for 2.5. Under the worst condi-tions of line voltage variation, the Ward Leonard regulator was found to pass only 0.083 volts c that to the 226, and 0.138 volts to the 227. Neither of these excess volt-

ages is sufficient to damage the filament of the modern types of A.C. tube.

Compensates for High and Low VOLTAGES

The value of adequate and automatic A.C. voltage regulation as an integral part of the modern electric set can hardly be overestimated. Not only have countless tubes been burned out or paralyzed by exposure to excess voltage, but the quality electric receivers generally has been



This series of curves was taken with a very popular A.C. set. The dotted line shows the filament regulation with the ordinary transformer, the heavy lines with the new A.C. voltage regulator installed.

injured by incorrect relation of B and C voltages. In fact, either high or low voltvoltages. In fact, either high or low volt-age at the electric outlet impairs true reproduction. One is about as undesirable the other. The usual type of voltage reducing device using condenser or resistor takes care of high line voltage, but is a hindrance rather than a help when voltage drops below normal value. The new Ward Leonard unit, marks a distinct step forward in voltage regulation in that it is equally effective whether the voltage is above or below normal value. When voltage is low it acts as a booster, delivering 100 per cent normal output to the tubes. When line voltage is excessive it acts as a reducer, maintaining normal output to the A.C. tubes.

Adopted by Leading Manufacturers

Manufacturers of power transformers, sets, and kits have already indicated great interest in this new form of voltage reg-ulator which solves the basic problem in electric set design. Eleven leading con-cerns in the east and middle west have signed agreements with the Ward Leonard Electric Co. giving them rights to the use of the new device.

It is understood that many set manufacturers plan to incorporaate the new voltage regulator in their 1929 models which will be marketed next fall.

Patent Infringement Suit

The BB Laboratories and the Best Manufacturing Company, Irvington, N. J., have instituted joint action against the Stuyve-sant Electric Company, 53 Walker St., New York, for infringement of patent No. 1,667,531 of the unit manufactured by plaintiff, known as the BBL Loud Speaker Motor. Similar action is being prepared against others manufacturing or selling units infringing on this patent.

Insurance Rates Claimed Excessive in Radio Field

Complaint of radio dealers that their fire insurance rates had been greatly increased caused the inquiry being made by the radio industrial associations. Fire underwriters advised them that insurance rates on radio products were increased because they are more subject to damage from fire and water than electrical products. This also raises the question of whether radio appa-ratus is an electrical product or not another burning question within the radio and electrical industries.

Insurance rates fairly adjusted on radio products as compared with electrical and other similar products are being sought by the Federated Radio Trades Association and the Radio Manufacturers Association.

Radio Commission Issues Television Permits

Seventeen stations were issued licenses for experimental television by the Federal Radio Commission. The stations are to be operated between 2,000 to 2,200 and 2,750 to 2,950 kc. The commission an-2,750 to 2,950 kc. The commission an-nounced that these licenses were authorized for six months and subject to revocation if any interference was caused to services operated by other North American sta-tions. It also was announced that the commission will no longer authorize visual broadcasting in the regular broadcast band

broadcasting in the regular broadcast band when existing licenses expire, except for experimental use between 1 and 6 a.m. Visual broadcasting licenses covering still or moving picture transmission were issued to the following stations: W2XBW and W2XBV of the Radio Corporation of America, in New York and New Lersey and a construction permit for

New Jersey, and a construction permit for a third station.

The Jenkins Laboratory, Inc., W3XK, to be located in Washington, and a construction permit for another station in Jersey City

Westinghouse Electric and Manufacturing Company, four licenses for stations to be located in East Fittsburgh, Pa., and Springfield, Mass.

General Electric Company at Schenec-N. Y., and Oakland, Cal., two tady,

licenses. WAAM, Inc., at Newark. Lexington Air Station at Lexington, Mass.

Pilot Electric Manufacturing Company, at Brooklyn.

Chicago Federation of Labor at Chicago. William Justice Lee at Winter Park, Fla. Aero Products, Inc., at Chicago. The commission authorized the issuance

of the following relay experimental licenses

and construction permits: Westinghouse Electric and Manufactur-ing Company, •at East Pittsburgh, six licenses.

Great Lakes Broadcasting Company, at Chicago.

Nona Motor Oil Company, at Council Bluffs, Iowa. Atlantic Broadcasting Corporation, at

New York City. L. Bamberger & Co., at Kearny, N. J. Crosley Radio Corporation, at Cincinnati.

Conveyor Speeds Production

A new conveyor system in the test department of the Federal Radio Corporation that has speeded up this operation of pro-duction more than 100 per cent, is one of

the units of the Buffalo manufacturing plant, which, through its improvement, has led to increased output of Ortho-sonic receivers.

Five tests and inspection operations are made on each complete chassis in addition to test and inspection of each part and unit in sub-assembly. The time required for each test or inspection operation is different, making it necessary to provide some means for getting a continuous flow of chassis through these operations.

The conveyor has only one inlet and four outlets. It is built in fanshape, with the inlet connected to the end of the assembly line, branching out to four outlets about fifteen feet long.

Each chassis, after it has reached the end of the assembly line, is placed on the roller conveyor for its journey along the line of testers and inspectors, to assure perfect operation before it is placed in its cabinet. The antenna, ground, voltage cable and speaker output terminals of each chassis are all connected with a carriage which automatically stops at each bench as it is sent along its route of inspection. As the chassis is halted it is automatically connected with antenna, ground, voltage and speaker. The chassis also can b: rotated on the carrier to an up-side-down position while thus connected, allowing for necessary adjustments on coils, socket prongs, etc., under the shielding.

RCA in South America

The RCA has recently formed two subsidiary companies in South America. One is the RCA of Argentine, Inc., the other, the RCA of Brazil, Inc.

The first meeting of the board of directors of both companies was held on Novem-The board for the Brazilian comber 8. The board for the Brazilian com-pany is composed of General J. G. Harbord, chairman; David Sarnoff, Joseph L. Ray, Van Ness Philip and Paul A. Dana. The board of the Argentine company is composed of General J. G. Harbord, chair-man; David Sarnoff, Joseph L. Ray, Van Ness Philip and George W. Hayes. ber 8.

Offices of the two companies have been established at 233 Broadway, New York City, and branch offices will be maintained in Rio de Janeiro, for the R.C.A. of Brazil, Inc., and Buenos Aires for the RCA of Argentine, Inc.

New Broadcasting Station in Japan

A new radio broadcasting station at Kumanoto, Japan, call letters JOGK, com-menced operating a short time ago accord-ing to a report from the Department of Commerce. The new station, of ten kilo-watt power, broadcasts on a wave length of 380 meters.

It is expected that inauguration of the new station will increase the Japanese demand for radio sets. Up to the present but few sets had been sold, owing, it is said, to the poor reception from stations over the mountains in central and eastern Japan.

Booklet On Television

Under the title of "Television," a comprehensive statement of the present status of the television technique and industry, as well as the formation and purpose of the Jenkins Television Corporation, is available to all those interested in this latest phase of the radio art. A copy of this booklet will be sent to anyone addressing the Jenkins Television Corporation, Jersey Citv. N. J.

1928 Greatest Radio Export Year

(Continued from page 62)

age, being only 4 per cent, the other classes following the average.

In Latin America, Mexico, Cuba, Argentina, Brazil and Uruguay are the markets of importance. Sales of components in Argentina, Colombia and Panama exceeded the imports of sets, and in a number of other instances were larger than the average.

The principal markets of the remainder of the world are Japan, Philippine Islands, Australia, and New Zealand. The fourteen countries mentioned as important markets took \$10,933,377 worth, or 90 per cent of the total.

It is estimated that 55 per cent of the receiving sets in operation in the world are of American manufacture. It is probably conservative to say that 75 per cent of the sets of the world are, at least in part, made of the products of American manufacturers. Although the foreign trade in radio is nearly equally divided between the United States, Germany, and Great Britain, 9.640,348 sets are in operation in continental United States as compared with the latest estimate of 20,337,546 in the world, distributed as follows: North America (including the United States) 47 per cent, Europe 42 per cent, South America 4 per cent, Asia 3 per cent, and Oceania and Africa 2 per cent each.

THE world's total foreign trade in radio has approximated \$30,000,000 annually for several years. The principal participators have been the United Kingdom, Germany, and the United States, which share about equally, while France, the Netherlands and other exported small percentages.

Several circumstances have mitigated against a larger sale of sets. The patent situation has hindered sales in parts of the British Empire. The wide wave band used in Europe made our sets less desired by those who wished to receive all the stations. It is expected that the coming year will see these long-wage stations operating in a band within the reach of American factory built sets.

Making Dollars Out of Nickels

(Continued from page 63)

floor—"just to see what happens." Gross income, in nickels, frequently has been as high as \$8 per day over a period of three months. The terms are \$200 down and \$60 a month, with \$80 added for financing, and so far

no difficulty has been experienced in collecting these payments. The dealer retains the key to the coin box until the machine is paid for.

Hotels, clubs and institutions of a semi-public nature are the logical prospects for the push-button type of phonograph instrument. Eighty per cent of sales to date, however, have included the five or ten-cent coin operated attachment for which there is an added first cost of approximately \$85.

As a town of 10,000 persons probably has less than a dozen real prospects, territory is granted by counties or groups of counties. The seller must be prepared not only to cover his bailiwick by personal contacts but should have available a speed wagon to support his introductory efforts.

Newspaper advertising is not recommended. Directmail circulars to selected lists, supplemented by the

Radio Retailing, March, 1929

in liberal use of the telephone provide t

liberal use of the telephone, provide the necessary leadproducing machinery.

"Three things strike me as particularly interesting in connection with the merchandising of automatic phonographs, electrically operated,

The National Market for Modern Automatic Phonographs

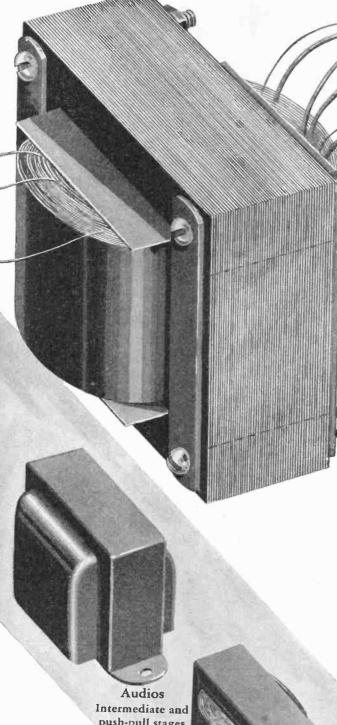
	(Commerc	ial Type)	
4,278	Country	1,840	Y.M.C.A.'s
,	Clubs		and
1,166	Dancing		Y.W.C.A.'s
	Academies	70,000	Soft Drink
634	Athletic		Parlors
	Clubs	82,000	Eating
1,786	Boarding		Places
	Schools	23,000	Billiard
932	Catholic		Halls
	Academies	1,440	Bowling
1,380	Elks Lodges		Alleys
4,500	Miscellane-	4,000	Beauty
	ous Clubs		Shops
4,100	Fraternity	6,000	General
	Houses		Stores
12,000	Druggists	500	Terminal
15,000	Hotels		Stations
197	Steamship	15,000	Amusement
	Companies		_ Parks
		249,753	Total
		,	Prospects

for commercial and institutional use," enthusiastically declares Bill Christena. "First, the adaptability of the radio-trained dealer as the logical outlet for a device whose main operating elements are identical with those of a radio receiver. Second, the fact that it's practically a virgin field-for the modern machine. Third, the comparative ease with which a \$2,000 to \$3,000 gross volume, per week, may be obtained and at a sales and servicing cost of not over 10 per cent. This includes promotional expense, truckage, salaries and commissions—but not fixed overhead. The first live dealer in his field will get this business, one of the best 'allied' lines I know of."

With its beauty of tone, ease of operation, earning power and large margin it makes a profitable line to handle.

87

Radio Retailing, A McGraw-Hill Publication



push-pull stages

Dependable Volume **Deliveries** because of Complete Manufacturing Resources

Output transformers

and PERFECT PERFORMANCE FOLLOWS

T. C. A. power transformers, like T. C. A. audio transformers, output transformers for dynamic speakers, and chokes, are built to standards critical enough to meet the most exacting in the industry. For among T.C.A. users are manufacturers of the world's finest radio sets who must have the best.

Nothing less than T. C. A. workmanship and materials can satisfy these discriminating buyers.

Refinements are many: automatically wound coils, vacuum impregnated; tinned leads; smooth laminations free from burrs; and perfect insulation. These and other important improvements in construction not only insure continued good performance but save the manufacturer money on his assembly.

Made up to suit individual specifications in separate units, complete assemblies, or semi-mounted.

These quality products cost no more than you have been paying, and you gain the perfect performance which invariably follows their use.

The Transformer Corporation of America

1428-1432 Orleans Street CHICAGO, ILL. Sales Offices in Principal Cities



Chokes

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PARTS and WHO MAKE THEM

The following is a regular monthly feature. Radio parts manufacturers are here listed together with the principal items used in receivers. The diamond indicates the part made. Manufacturers are requested to supply corrections or additions to this list at any time.

					Cond	enser:	s				Pa	nels		Re	esista	nces		. -			Audio	
	aŭ								Ballasts					Fixe	d	Var	iable			ly.		8
Manufacturer's Name and Address	Posts	Chake	E.	Mira	Paper	tic						tion	Wire Wound	7			ound			iners, Supply	Transformers,	Cables
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	Bind	Coils,	Coils,	Fixed	Fixed	Elec	Vari	Díals	Fija	Jacks	Metal	Com	Wlr	Pro(Carl	Carl	Wire	Sockets	Swit	Trar	Trai	Wire
Acme Appar. Co., Cambridge. Mass. Acme Wire Co., New Haven, Coun. Aero Prod. Co., Inc., Chicago. Aerovox Wireless Corp., Brooklyn, N. Y. Aiden Mig. Co., Brockton Mass. Ailen-Bradley Co., Milwaukee, Wis. American Hard Rubber Co., N. Y. C. American Medford Hillside, Mass. Auburn, N. Y.										1												
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Auburn Button Wks, Inc., Auburn, N. Y. Bastian Bros. Co., Rochester, N. Y. Beaver Mach. & Tool Co., Newark, N. J. Beiden Mfg. Co., Chicago. Benjamin Elec. Mfg. Co., Chicago. Birnbach Radio Co., N. Y. C. Brach Mfg. Co., Newark, N. J. Bremer-Tully Mfg. Co., Chicago. Brown & Ceine Inc. Chicago. Brown & Ceine Inc. Chicago.							~ = = = ~ = = =												.			
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Chicago-Jefferson Fuse & Elec. Co., Chicago.																					• • • • •	
Clarostat Mfg. Co., Inc., Brooklyn, N. Y.						~ =										. •						
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Daven Corp., Newark, N. J De Jur Amsco Corp. N. Y. C.													♦ ♦									
Dubilier Cond. & Radio Corp., N. Y. C Dudlo Mfg. Corp., Ft. Wayne, Ind.																						
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Fleron & Son, M. M., Trenton, N. J. Ford Radio & Mica Corp., New York City.												· • · -										
Frost Co., H., H., Chicago, Ill Gardiner & Heoburn, Phila, Pa.										·								 				
Gardiner & Heoburn, Phila, Pa. Gardner Elec. Mfg. Co., Oakland, Calif. Gearhart Radio Co., Fresno, Calif. General Coll Co., Weymouth, Mass.		···•··																				
General Instrument Corp., New York City.		••••••••••••••••••••••••••••••••••••••					. . .													•		
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Packard Elec. Co., Warren, Ohio. Paragon Elec. Co., Chlcago. Pilot Electric Mfg., Co. Brooklyn, N. Y. Platter Cabinet Co., North Vernon, Ind. Polymet Mfg. Corp., N. Y. C. Potter Mfg. Corp., North Chicago. Powrad, Inc., Bklyn, N. Y. Precise Mfg. Corp., Rochester, N. Y. Precise Mfg. Corp., Rochester, N. Y. Preciselon Mfg. Co. Los Angeles, Calif. Radial Co. N. Y. C. Radial Co. N. Y. C. Radio Appilance Corp. Springheid, Muss Radio Contesser Co., Canden N. J. Ranger Coil Co., W. Davenport, N. Y. Rittenhouse Co., A. E., Honeoye Falls, N. Y. Robertson-Davis Co., Canton, Mass. Samson Electric Co., Canton, Mass. Sangamo Electric Co., Chicago. Staturn Mfg. & Sales Co., N. Y. C. Beanlan Elec. Mfg. Co., Chicago. Bilver-Marshall, Inc., Chicago. Bilver-Marshall, Inc., Chicago. Bilver-Marshall, Inc., Chicago. Bilver-Marshall, Inc., Chicago. Bilver-Marshall, Inc., Chicago.																					·· • ··	*
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Radio Retailing, March, 1929

NOTICE To Dealers Selling

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MAGNETIC AND DYNAMIC REPRODUCERS

LICENSED UNDER LEKTOPHONE PAT'S, OTHER PAT'S PENDING

THE Trade-In-Plan, inaugurated by the United Reproducers Corporation, Peerless Division, and effectively put into operation during February by thousands of Peerless dealers in every section of the country, will be continued for the month of MARCH. So successful has been this plan, which offers dealers an opportunity to make a liberal allowance for old speakers regardless of make or condition toward a new Peerless, every Peerless dealer should give it special attention.

House-to-House Campaign

And to make the Trade-In-Plan still more productive the Peerless House-to-House Campaign now makes its bow! In a number of experiments for the purpose of testing the procedure, several prominent retailers, some of whom never before sanctioned house-to-house methods of selling, have found this campaign worthy of their undivided support.

The exact operation of both of these plans has been furnished distributors for your use. Ask them for copies of the details without delay and get your share of this profitable business.

UNITED REPRODUCERS CORPORATION

Peerless Division Rochester, N.Y. Radio Retailing, March, 1929

REPEAT ORDERS prove that Ken-Rad Tubes Satisfy

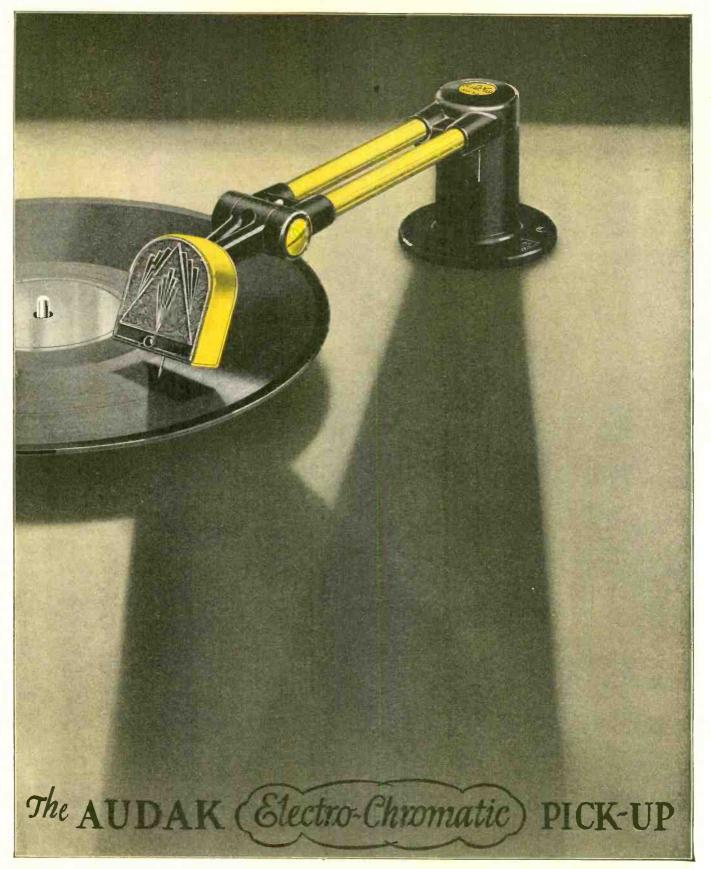
OLD and new customers are buying more Ken-Rad tubes every month. This is the biggest Spring season in Ken-Rad history and Ken-Rad is one of the three oldest tube manufacturers.

The meaning of Ken-Rad standard quality is fully appreciated by the thousands of radio owners who are using Ken-Rad tubes. And dealers find it easier to sell Ken-Rads—and at the same time make the better profit that Ken-Rad offers.

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Standard quality—complete customer satisfaction—a better margin of profit—these are some of the reasons why you should sell Ken-Rad tubes. A jobber in every section sells Ken-Rads—ask for the Ken-Rad proposition.





To create instruments that would reproduce NAT-URALLY, was the height of our ambition when we first entered the music field, after years of electrical and acoustical experience . . . and later, when we perfected AUDACHROME, our Chromatic Reproducer . . and still later, when we were preparing to announce this revolutionary new Pick-up. To interpret voice and music NATU-ALLY, requires ability to respond to the slightest chromatic shadings and color-tones. AUDAK attributes its acknowledged success in a difficult field to its ability to carry through this principle. Every AUDAK instrument performs NATURALLY. ... we make no other kind.

The AUDAK COMPANY, 565 Fifth Avenue, New York "Creators of High Grade Electrical and Acoustical Apparatus Since 1915" Radio Retailing, March, 1929

HERE'S A REAL TONIC TO BRACE UP YOUR SUMMER SALES



Fans



When radio sales melt before the rising temperature of summer, fan sales take their biggest leap ahead.

General Electric Fan sales take the most gigantic steps because General Electric Fans are backed by so tremendous a campaign.

More than 15,000,000 advertisements willappearinTheSaturdayEveningPost, Collier's and Liberty during the warm months. They not only sell fans, but they prominently display the G-E Fan SIGN which you can have in front of your shop to bring sales right to you.

Forceful local sales campaigns, too, unusual booklets and helps, special price tags and other aids are yours for the asking.

Send the coupon for the whole story. Do it now and reap the benefits in bigger and more profitable summer sales. Radio and G-E Fans are a good combination for all-year-round profit

t ¹ Cool that which you can be?	A A A A A A A A A A A A A A A A A A A	Free dollars can give your a nor or windth thereau	 Section F-293 Merchandise Department, General Electric Company, Bridgeport, Conn. Please tell me how to brace up my summer sales.
2.99	1000		Name
ENER A		CENER CERTCI	Address

GENERAL ELECTRIC

730-525

5 GREAT FACTORIES ASSURE VOLUME PRODUCTION

Challenge

anyone to Equal the

QUALITY -- CONSTRUCTION -- PRICE --

of R. C. M. Model 160 ALL WALNUT CABINET

for ATWATER KENT Radios

RADIO CABINET MANUFACTURING COR-PORATION breaks all precedent by announcing "All Walnut Construction?" First with many new value features... first to feel the pulse of public demand for all walnut construction ... R. C. M. challenges you to find equal value in popular priced Radio Furniture.

ALL WALNUT Construction assures your customer a lasting and substantial radio cabinet ... and the beauty characteristic of fine Walnut. All exposed parts are genuine Walnut. On the front, top and sides we use 5-ply genuine selected Walnut veneers. The base is All Walnut.

Two-way hinges permit the doors to open flush and trim against the sides. The doors are of matched Burl Walnut veneers

with imported Peruvian maple overlays. Fluted edges contribute to a fully finished appearance when the doors are open.

The front panel is



made with 5-ply one piece Walnut Veneers. Harmonious grouping of controls, simplicity in the design of the grille and a plain, continuous design create a rich front panel pleasing to the eye.

The heavy, full-width 5-ply baffleboard is securely bolted to the cabinet. The all brass hardware is krominized and nontarnishable and styled in keeping with the general design of the cabinet. At home in any surround-

> ings, R. C. M. Cabinet No. 160 will appeal to that vast market of buyers who appreciate quality and yet do not wish to pay the usual high price to obtain it,



Model No. 160 R.C.M. Cabinet takes Model No. 40, 42 or 46 Atwater Kent Radios

FAMED as a successful retail merchandiser, Mr. I. H. Hartman makes available to Atwater Kent dealers through R. C. M. his own great talent for merchandising and his extensive knowledge of furniture merchandising. Better service in Merchandise... Better Service in Merchandising... on these fundamental advantages R. C. M. offers its co-operation to all Atwater Kent dealers.

Order through your Atwater Kent Distributor

CABINET FOR

ATWATER KENT RADIO

BY CLOU

RADIO CABINET MANUFACTURING CORPORATION I. H. HARTMAN, President , , General Offices: FURNITURE MART, CHICAGO

Atwater Kent Radio

Bigger sales than a year ago with ELECTRO-DYNAMIC

 $E^{\rm VERYBODY}$ knows that when Atwater Kent announces a new model it is a perfected instrument at a price most people can afford.

This means that profits are constantly increasing for the retailer who handles the radio the public demands.

Right now they are demanding Atwater Kent Electro-Dynamic.



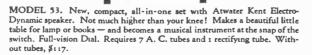
ATWATER KENT ELECTRO-DYNAMIC RADIO IN CABINET by Red Lion

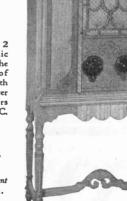


MODEL 46. New Electro-Dynamic receiver for use with Model F-2 Electro-Dynamic speaker or other speakers of the same electrical characteristics. Full - vision Dial. Panelled corners, ball feet. Requires 7 A. C. tubes (2 power tubes) and 1 rectifying tube. Without tubes, \$83.

On the air very Sunday night Atwater Kent Radio Hour listen in! Prices slightly higher west of the Rockies. MODEL F - 2 Electro-Dynamic speaker. Trueto the whole range of music. For use with Model 46 Receiver or other receivers supplying a D. C. field current. \$34.

ATWATER KENT MFG. COMPANY A. Atwater Kent, President 4733 Wissahickon Ave. Philadelphia, Pa.





ATWATER KENT ELECTRO-DYNAMIC RADIO IN CABINET by Pooley

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Radio Retailing, A McGraw-Hill Publication



Now is the opportunity for radio dealers to boost their Spring and Summer sales with a fast moving item that is a year-round seller. Exercising and reducing machines are here to stay. Public demand is increasing by leaps and bounds, and there's a place in any radio department for this new electrical appliance that's been taking the country by storm.

Dealers holding a Tower franchise are backed by national advertising and a cooperative sales service that means quick turnover and increased profits.

If you have not seen the new machine or heard the entire story about this wonderful sales item write or wire immediately for full details.

TOWER MFG. CORP., 122 BROOKLINE AVE., BOSTON, MASS.



FOR information regarding the new Tower Exerciser and Reducer, write Tower Mfg. Corp., Boston or any distributor below.

WHOLESALE DISTRIBUTORS

Alabama Birminaha Birmingham, Moore-Handley Hdwe. Co. California Los Angeles, Radio Sup. Co., Leo J. Meyberg Co., Western Surgical Sup. Co., San Francisco, Rob-ert Weinstock Co., Fobs Sup. Co., Leo J. Mey-berg Co., Marcus-Lesoine. Colorado Denver, Hendrie & Bol-thoff Mfg. Co. Connecticut New Haven, The Hessel & Hoppen Co. Bridgeport and Waterbury, Sprague Electric Co. Delaware Wilmington, H. C. Rob-erts E. S. Co. Dist. of Columbia Washington, H. C. R erts E. S. Co. C. Rob-Florida Jacksonville, G. E. Sup. Co., Miami, G. E. Sup. Co., Tampa, G. E. Sup. Co. Idaho Pocatello, Intermountain Elec. Co. Illinois Illinois Chicago, New England Mills Co., Illinois El. Co., Glbbs & Co., Peoria, Ill. El. Co., Streator, Williams Hdwe. Co., Rock Island, R. I. Hdwe. Co. Indiana Indianapolis, The Varney El. Co., Van Camp Hdwe, & Iron Co., Evansville, The Varney El. Co. Pennsylvania Philadelphia, H. C. Rob-otts E. S. Co., Pitts-burgh, Iron City El. Co., Edlis Barbers' Sup. Co., Reading, H. C. Roberts E. S. Co. Howa Howa Croscent Elect. Co. Des Moines, Julius Andrae & Sons Co., Davenport, Crescent El. Co., Dubuque, Crescent El. El. Co., Mason Gity, Julius Andrae & Sons Co., Sioux City, McGraw El. Co. Rhode Island Providence, Wetmore-Sav-age E. S. Co., Union El. Sup. Co. Tennessee Memphis, Braid El. Co., Com. El. Co., Nashville, Braid El. Company. Louisiana New Orleans, Interstate El. Co., New Orleans Electric Supply Co., Shreveport, Interstate El. Co. Texas Fort Worth, The Shield Co., Dallas, El. Appli-ance Co., RL Paso, The Mine & Smelter Co., Houston, El. Appliance Co., Inc., San Antonio, El. Appliance Co. Maryland Baltimore, H. C. Roberts E. S. Co. Utah Salt Lake Oity, Inter-mountain El. Co. E. S. Co. Massachusetts Boston, Frankel - Smith Co., G. E. Sup. Co., Wetmore-Savage E. S. Co., Wetmore-Savage A. Union Electric Supply Co., Springfield, B. H. Spinnay Co., Wetmore-Savage E. S. Co., G. E. Sup. Co., Worester, Wet-more-Savage E. S. Co. Virginia Norfolk, Woodhouse Elect. Co., Richmond, Tower-Binford El. Co. Michigan Detroit, Com. El. Supply Co., Lake States G. E. Supply, Grad Rapids, C. J. Litscher El. Co. Com. El. Co., Redamazo, C. J. Litscher El. Co. Jack-com, C. J. Litscher El. Co., Flint, Com. El. Co.

Washington Seattle, Fobes Sup. Co., Wedel Co., Spokane, Fobes Sup. Co., Marshall-Wells Co. Wisconsin Milwaukee, Julius An-drae & Sons Co.

Minnesota St. Paul, Gt. Northern E. A. Co., Minneapolis,



Gt. Northern E. A. Co., Duluth, Gt. Northern E. A. Co., Marshall-Wells Co. Missouri St. Louis, Com. El. Co., The Straus Co., Kansas City, Columbian El. Co.

Nebraska Omaha, McGraw El. Co., Lincoln, R. S. Proudfit Co.

New Jersey Trenton, H. C. Roberts E. S. Co.

E. S. Co. New York Albany, H. C. Roberts E. S. Co., Syracuse, H. C. Roberts E. S. Co., Binghamiton, H. C. Rob-erts E. S. Co., Buffalo, Joseph Strauss Co., Utica, H. C. Roberts E. S. Co., Troy, Hinsdill El. Co., N. Y. City, Chisholm Co., Alpha El. Co.

North Dakota Fargo, Gt. Northern E. A. Co.

Ohio Cleveland, Clarke Motor Equip. Co., Erner El. Co., Akron, Hdwe, & Sup. Co., Toledo, Toledo Auto Equip. Co.

Oklahoma Tulsa, Elec. Appliance Co., Oklahoma City, Elec-tric Appliance Co.

Oregan Portland, Fobes Sup. Co., Marshall-Wells Co.

Kentucky Louisville, Tafel El. Co.,

Maine Portland, G. E. Sup. Co.

Hawali Honolulu, Mutual Tele-phone Co.



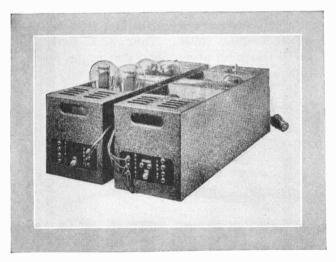
Now you can have an unlimited business WITH UNLIMITED PROFIT throughout the entire year...

WOULDN'T you like to be in a business where the unit sales are big? Where service is small? Where the profit stays put? Where you are not at the mercy of broadcast station interference, line interference and so on?

Get into Power Amplification!

There are a dozen business men right in your neighborhood-men you already know-who are





The new models of Powerizer Amplifiers have the UX245 Tube. Other models for every power amplification purpose.

> Licensed by Radio Corporation, of America and Associated Companies

right now wondering about power reproduction ... looking for information about it.

These men are running dance halls, theatres, restaurants, summer resorts, amusement parks, fairs, schools, camps—all sorts of public places where fifty to several thousand people gather.

You can easily show them how a modern system of A. C. Power Amplification—(reproduction music or speech in full orchestral volume with perfect realism)—will draw big crowds and make money for them.

And think what a profit you can make on complete installations ranging from \$350 to \$1,000 and more! You profit on the equipment ... you profit on the installation ... you get advertising value of it ... and, finally, you keep your organization busy making money for you throughout the year!

This isn't any experiment either—it's business you can easily get if you'll let us help. We make the heart of the system—Powerizer Amplifiers employing the newest Tubes (UX245-UX250). We'll gladly send you all the technical guidance your service men will need to make a thoroughly satisfactory installation. We'll give you all the benefit of our experience in selling and installing Powerizer systems at a profit. Get these complete details now—write, today for our booklet RR3-1026.

RADIO RECEPTOR COMPANY, Inc.

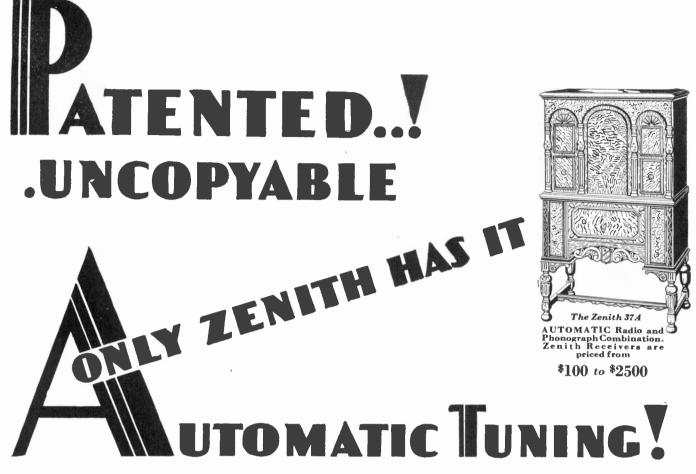
• New York, N. Y.

307 N. Michigan Blvd., Chicago, Ill.

106 Seventh Ave.

Sell Power Amplification Installations to:

Dance Halls Restaurants Lunchrooms	Theatres Summer Resorts Churches Schools and	Civic Centers Amusement Parks and Fair Grounds Bailway, Bus and
Hotels and Apartment Houses	Camps Movies	Railway, Bus and other announcing
Steamships	Hospitals	systems.



T HAD to come. Automatic Radio was as firmly destined to become the accepted radio of the future, as was all-electric radio a few years ago. And what could be more inevitable than that the pioneer developer of the electric receiver should again step forward... with this great and newer advancement.

98

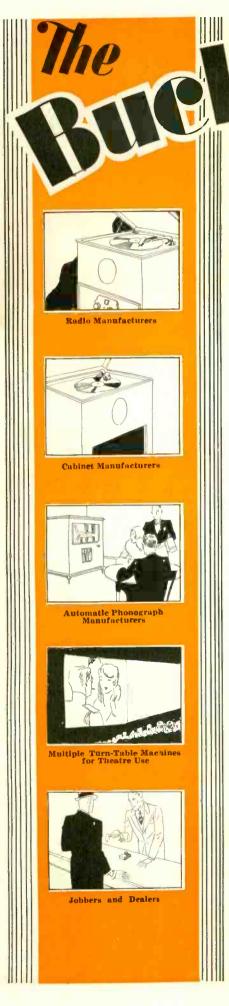
Automatic Tuning is here TODAY . . . thanks to Zenith leadership. No more hunting or groping for stations in the old-fashioned way. You simply press a button and the wanted station comes in instantly . . . surer, sharper than the most expert tuner could accomplish by hand. No limit to the number of stations obtainable . . . ALL, local or distant, are at the beck and call of your FINGER TIP! ?

Zenith dealers, only, will have 1930 Automatic Radio. NOW. That is something worth thinking over, when you make plans for a profitable radio business this year.



WORLD'S LARGEST MANUFACTURERS OF HIGH GRADE RADIO

Radio Retailing, March, 1929



IIM

HE pick-up is the most important and least expensive part of any reproducing instrument. Manufacturers who have used the BUCKINGHAM know that it is absolutely the finest, most efficient and durable pick-up ever offered. Precision made throughout, of highest quality materials and workmanship, yet it costs little more than many inferior makes.

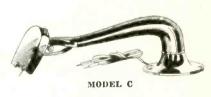
for the manufacturer



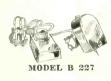
Built like a fine chronometer. High voltage output, low impedance, and uniform response over a frequency spectrum far in excess of that audible to the human ear. Permanent magnet of finest cobalt steel. Each armature dynamically balanced. Each assembly aged and retested to insure accurate adjustment before shipment is made.

MODEL A

Two models (above and to the right) for manufacturers of radio and phonograph combi-nations, combination cabinets, automatic electric phonographs, multiple turn-table devices, auditorium speakers, and any other devices for electrical re-production from records.



for the jobber and dealer



Jobbers and dealers are finding the BUCKINGHAM Pick-Up an excellent money maker. Two models (with and without arm), both including volume control, for accessory sale.



00

Write or Wire for Our Proposition

Buckingham RADIO CORPORATION Dept. PU1, 440 W. Superior St., Chicago, Ill. Radio Retailing, A McGraw-Hill Publication



A BIG All-Seasons SELLER to ALL SET OWNERS



THE new 1929 Aero-Call Converter Box brings to music stores and radio dealers a real opportunity to in-

Here is an entirely new adaptation of the wonders of radio. Heretofore, short waves have been appreciated only by "hams." Now they are available instantly to every radio set owner by the use of the Aero-Call short-Wave Converter Box. A compact, shielded, filtered, factory-built short-wave adapter, equipped with special short-wave coils. Designed for both A.C. and D.C. sets. Operates perfectly without motorboating, by an auxiliary filter system control, an exclusive feature (patent applied for) that entirely eliminates the failure of most converters heretofore offered to the public. It can be plugged into any regular radio set. List of short-wave stations here and abroad, with time of broadcasts, enclosed with each set.

Get Foreign Countries on Short Wave

This amazing radio instrument now makes it possible to reach 'round the world—England, Germany, Holland, France, Australia, Panama, Java and many foreign stations are some that are tuned in regularly on short wave. Permits enjoyment of international programs and many others from coast-to-coast that regular receivers cannot get. What a thrill it is to plug this into a tube socket on any set and instantly be in another world!

No change or wiring required. All complete, ready to operate, tubes and coils hidden, no apparatus in sight, except the neat, golden-brown, compact metal cabinet in crackle finish, that harmonizes splendidly with the finest radio cabinet. Cushioned feet prevent marring cabinet. Size, only $9 \ge 5 \frac{1}{2} \ge 2 \frac{1}{2}$ inches.

The only converter we know of that really works on all sets. Two models—A.C. and D.C.

D.C. Dealers, write for literature and discounts, and name of your nearest jobber. Jobbers, slock up now.

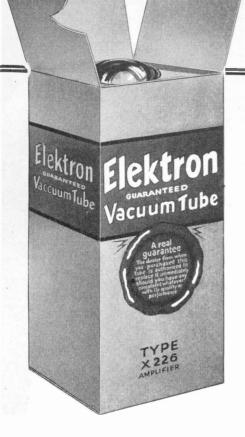
AERO PRODUCTS, Inc. 4611 E. Ravenswood Ave., CHICAGO, ILLINOIS DEPT. 2139-A

Every Set Owner a Prospect!

The public's interest in this remarkable new radio improvement has been nation-wide. Jobbers and Dealers will find an instant demand for it from radio users everywhere, both A.C. and D.C. Order your demonstrator now.

MODEL	A, for	А.	С.	Sets	 \$ 00
MODEL 1		D.	С.	Sets	\$25.00

	Dealers' Demonstrator Order	=
AERO P Dept. 21	RODUCTS, Inc. 4611 E. Ravenswood Ave., 39-A, Chicago	
	e one of your new 1929 Aero-Call Short Wave Converter Boxes Jug into any radio set now sold by me. I'll put them on sale. is remittance of \$25.00 less 40% dealer's discount, less 2%	
Dealer's 1	Vame	
Street and	l Number	
City		
State whe	ther A.C. or D.C. Model is desired.	
Name and	l Address of Jobber	



EMERSON'S Elektron guaranteed Vacuum Tube

A PRODUCT OF EMERSON, one of the best known names in the music industry — and sound reproduction.

-to the radio set owner it means:

An entirely new conception of clarity of tone and faithfulness in sound reproduction.

Truer reception and a reawakening of interest in radio enjoyment.

Assured satisfaction made doubly sure by the ironclad EMERSON GUARANTEE.

-to the radio tube dealer it means:

Complete breaking down of sales resistance and a constant turnover of a live line.

A source of steady profit and a sufficient margin to make the EMERSON ELEKTRON a most attractive selling proposition.

—to the jobber it means:

The best tube franchise in radio today.

JOBBERS' FRANCHISES BEING ALLOTTED



Write at once for full information. No make of radio tubes ever offered to the American market so completely protects set owner, dealer and jobber—or will give such genuine satisfaction to all. An EMERSON franchise has a value which will return handsome profits to live jobbers.

EMERSON RADIO and PHONOGRAPH CORP.

Makers of Emerson Quality Products since 1915

307-309 Sixth Avenue, New York City

Radio Retailing, A McGraw-Hill Publication

ARCTURUS BLUE LONG-LIFE TUBES

ARCTURUS RADIO TUBE CO. ~ 220 ELIZABETH AVENUE -NEWARK, NEW JERSEY

"We use only Arcturus Tubes in our demonstration sets"

102

-says Mr. M. S. Norton, Radio Manager of the Warner Hardware Co., Minneapolis, Minn.

> "Because Arcturus Tubes operate in seven seconds they help us make sales," Mr. Norton writes. "The half-minute wait necessary with other tubes makes a bad impression, and sometimes spoils the sale. This is in addition to the many other advantages of Arcturus Tubes."

A RCTURUS No. 127 Blue Tubes will help your sales of A-C sets, too. And they will keep your customers satisfied because they offer demonstrable advantages over other tubes. Wonderful...what Arcturus will do:

Brings in programs in 7 seconds. Increases volume. Banishes hum. Prevents harm from line surge. Averages more than 2000 hours' life.

If you want to sell the fastest moving A-C Tube on the market today, get all the facts about Arcturus.



A SPLENDID SETTING FOR RADIOLA 18 OR 60

BEAUTY of tone—high quality of radio engineering as found in Radiola 18 or 60 deserve a cabinet in keeping.

This splendid Radio Master Cabinet is made particularly for this need. Equipped standard with the Radiola 106 speaker. The interior panel is drilled in such a way that either Radiola 18 or 60 may be installed. Walnut plywood—matched butt wal-

Cabinet open.

nut doors-cross figured walnut interior panel-these mellow beautiful woods combine with splendid design and Radio Master fine workmanship to give you a cabinet you will like to sell.

Available through Radio Corporation Jobbers only.

Other Radio Master Cabinets are available for every make of set. All of them are beautiful.



RADIO MASTER CORPORATION, - Bay City, Mich. E ١G н FΑ **UL FOR ANY** F RADIO

103

Radio Retailing, A McGraw-Hill Publication





Uses 8 tubes, including two 171-A tubes and rectifier — Using heater element tubes — Smooth volume control— Illuminated single dial—Single tuning knob — Reproduction not affected by line voltage fluctuations. With famous Fada Dynamic Speaker. Self-contained in a beautiful burl walnut console—Operates from A. C. light socket (90-130 volts, 50 to 60 cycles). Yes, it's a neutrodyne!

ADA dealers are not restricted to one class of prospect. For the Fada line gives them quality radio for every type of home and every grade of income.

The Fada 16 at \$110 with push-puli amplification, phonograph attachment, using heater element tubes and dynamic speaker, places fine radio performance within reach of all. And the Fada 32, with the same features and a dynamic speaker built in its beautiful console, is the greatest radio value on the market at \$225.

The Fada 70 represents the highest development of radio and its glorious voice is heard in thousands of the finest homes in the land. Small wonder that Fada dealers value their franchises so highly. For everyone is a prospect for Fada radio. Write us for details regarding our franchise in your territory.

FADA 70

1

With the famous built-in Fada super-dynamic speaker — a real one (enormous volume or mere whisper)—Illuminated single dial—Uses 9 vacuum tubes, 6 heater element tubes and one rectifier (2 of the powerful 210 type tubes) push-pull amplification—Loop or antenna operation (loop hidden in top of cabinet when not in use)—Phonograph attachment—Smooth volume control— Completely self-contained in beautiful Sheraton console—Operates from A. C. light socket (90-130 volts, 50 to 60 cycles)—Yes, it's a Neutrodyne!



Fada 16 table model, in velvetex finish cabinet, for use with Fada dynamic or magnetic speaker, has same features as the 32.

This same model designed for use with direct current is known as Fada 18.



A powerful cone with dynamic motor drive. Built in power supply units for 25 to 60 cycles - 90 to 130 volts. No adjustments. Absolutely faithful reproduction within the entire speech and music range (20 to 6000 cycles)-merest whisper or enormous volume without distortion.





104

By this Box —

By this box you know "The Healthy Tubes"

Raytheon LONG LIFE RADIO TUBES

> R¶r 227

280

heon

Rar X 112-A

neon

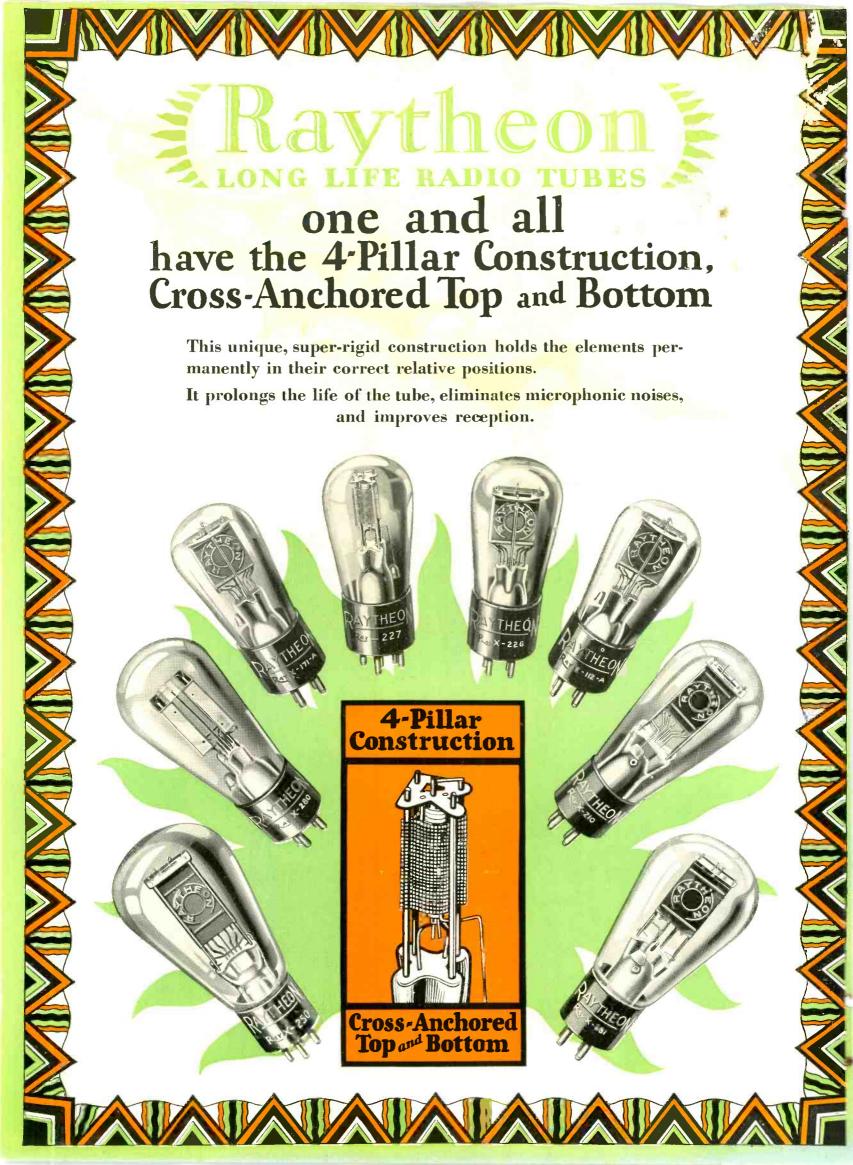
Rar X 171-A

heon

ParX 226



RAYTHEON MFG. COMPANY, Cambridge, Mass.



Radio Retailing, March, 1929



From coast to coast Distributors Hail the new Brandes Radio^{*}

It met—and *exceeded*—their every expectation! It proved itself the biggest news in radio for 1929!

This Brandes receiver climaxes 21 years of research and experience. It will build sales in a price field where sales potentialities are greatest.

Very shortly, now, distributors will be in a position to make deliveries on this outstanding, new Brandes receiver.

The New

Brandes Radio

reproducer) Cabinets of surpassing beauty

Copyright 1929, by the Brandes Corporation, Newark, N. J.

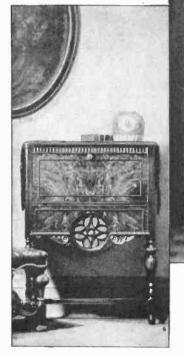
3

*all electric operation

2 console models (with dynamic

1 table model

Bosch Radio Model A, well designed, richly carved with selected woods, complete with Model 28 Bosch Radio Receiver, Bosch Magnetic Speaker—price \$170.00 less tubes. Model 28C a similar model with electro-dynamic speaker is \$195.00 less tubes.



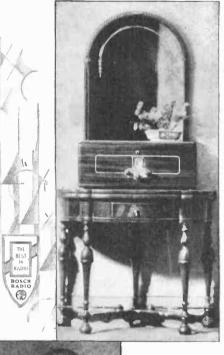
Bosch Radio Model 29D, new in treatment novel in effect of patterned veneers, rich in quality and appeals to discriminating buyers, complete with Model 29 Bosch Radio Receiver, super-dynamic speaker, special high power speaker supply is \$225.00 less tubes.

ANOTHER new model—Model 29D—has been added to the highly successful Bosch Radio line. Added strength and new profits are assured to Bosch Dealers who, after a money-making year, start upon a new season with an augmented line and new sales opportunity. The Model D has the same craftsmanship so outstanding in the other models of Bosch Radio—has fine woods, selected veneers and pleasing design. It fits in and rounds out the line.

Participate in the success of Bosch Radio. Profit by a selling policy that has been subjected to the acid test, of an advertising and sales help program that really sells merchandise. Write the Main Office or the nearest branch where your inquiry will be taken seriously and kept confidential.

> Prices slightly higher west of Rockies and in Canada Bosch Radio is licensed under patents and applications of R. C. A., R. F. L. and Lektophone

AMERICAN BOSCH MAGNETO CORP. SPRINGFIELD MASSACHUSETTS BRANCHES: NEW YORK CHICAGO SAN FRANCISCO Bosch Radio Model 28-110 volt A.C. Seven A.C. tubes and power rectifying tube. Single tuning, lighted dial. Solid mahogany cabinet Price \$110.00 less tubes.





Bosch Radio Model B, beautiful in every line with patterned woods, sliding doors, deep carvings, complete with Model 29 Bosch Radio Receiver, super-dynamic speaker, special high power speaker supply is \$250.00 less tubes.

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Radio Retailing, March, 1929

The **BIG NOISE**!

The loud clamor that always goes with national advertising circulation figures is supposed to *echo* in your cash register.

But Does It?

The only advertising that does any selling for you is advertising in *your* city, reaching your customers, influencing their buying habits!

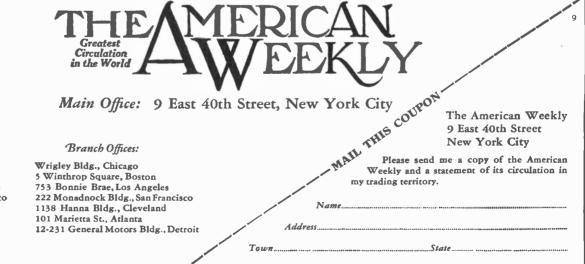
And The American Weekly is the national publication that does the job!

What is The AMERICAN WEEKLY?

The American Weekly is the magazine distributed through the seventeen great Hearst Sunday newspapers from seventeen principal American cities.* It concentrates and dominates in 485 of the nation's 784 towns and cities of 10,000 population and over.

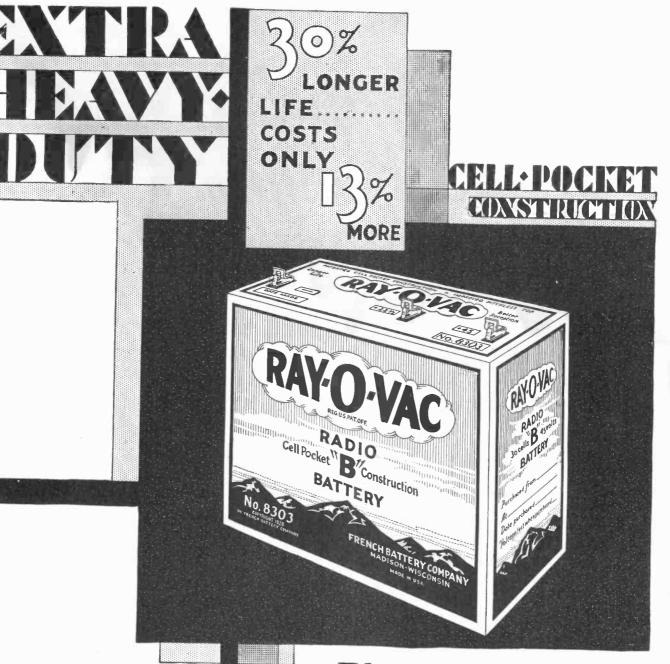
In each of 153 cities it reaches one out of every two families. In 119 more cities it reaches from 40 to 50% In an additional 108 cities it reaches from 30 to 40% In another 105 cities it reaches from 20 to 30%

And almost two million additional copies of The American Weekly are bought in thousands of other prosperous communities—constituting an amazing national total of 5,646,898 families who buy and read The American Weekly—the greatest and most responsive circulation of any publication on earth!



*Albany Atlanta Baltimore Boston Chicago Detroit Los Angeles Milwaukee New York Omaha Pittsburgh Rochester San Antonio San Francisco Seattle Syracuse Washington

J



FRENCH BATTERY CO.

Factory: Madison, Wis. Sales Office: 30 North Michigan Avenue, Chicago Also makers of Ray-O-Vac "A" and "C" Radio Batteries, Ray-O-Vac Rotomatic Search-

lights, Ray-O-Vac Flashlight, Ignition and Telephone Batteries You can tell your customers this: that they'll get longer, better service every time from the new Ray-O-Vac Extra Heavy-Duty "B" Battery (No. 8303) ... and what's more, you can rely on the battery's backing up your strongest statements. Thirty per cent longer life at only thirteen per cent greater cost is a great selling argument! Your jobber supplies you. Radio Retailing, March, 1929

Sonora makes 3 important

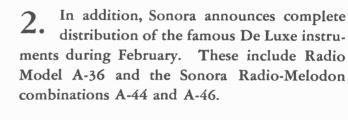
announcements

1. Sonora's production economies, together with a tremendous consumer demand, have made possible new lower prices on two Sonora Radios. These are Radio Models A-30 and A-32, now listed at \$260 and \$280 respectively—without tubes—instead of \$325 and \$345 as before. All stocks now in the hands of the trade will be protected to cover these price adjustments and credits will be issued to dealers who have stocks of these models on hand.

Model A-44. An exquisitely designed combination instrument embodying the utmost perfection of the electrical reproduction of music—either by record or from the air.

Model A-36. In this instrument Sonora presents a radio that represents the highest development in the art of recapturing music from the air.

THE SONORA MELODON MELODON WITH RADIO SONORA PHONOGRAPHS



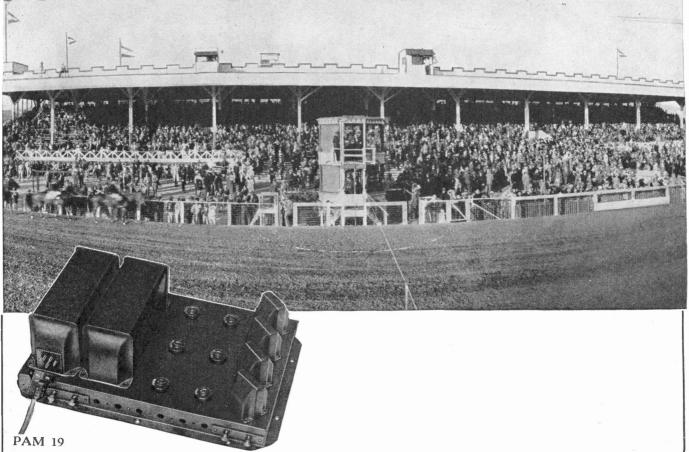
3. Instruments operating on 25-40 cycle current will be available this 'month—good news particularly for dealers located where this type of instrument is in demand.

With these important additions and adjustments, Sonora is now prepared to meet the demands of a tremendously growing volume of business. The 1929 Sonora line meets every need with low inventory requirements.



NEW SONORA RADIOS Melodonic speaker Sonora portables

SONORA PHONOGRAPH CO. INC., SONORA BUILDING, 50 WEST 57th STREET, NEW YORK CITY



Price, without tubes, \$175.00

Set the Pace with a "PAM"

Bang! They're off like a flash—and at Tia Juana (pictured above) the spectators, wherever located about the track, know the whole story because they are informed by means of a PAM 19 and MIK 1.

Every race track is a prospect for you and remember this is but one of a thousand applications for "PAM" amplifiers which are keeping dealers busy throughout this country.

> There is no closed season for "PAM" amplifiers and the dealer who installs them.

Send for handsome folder, RR6, describing the above and other Samson PAM Amplifiers, which are also a "Sound Investment."

Samson Electric ().

Main Office: Canton, Mass. Factories at Canton and Watertown, Mass.

Manufacturers Since 1882

ANNOUNCING

COMBINED ELECTRIC RADIO and PHONOGRAPH \$26500

Prices Slightly Higher West of the Rockies

UST a turn of the dial—and instantly you switch from J radio to phonograph-and back again, as your mood dictates. To appreciate the fine quality, the amazing performance, the simplicity of this great instrument-you must see, hear and try it!

LESS TUBES

Cabinet of beautifully matched butt burl walnut. Radio has three stages of tuned radio frequency amplification, using R. F. L. balanced circuit. Two stages audio amplification, the last stage using two 250-type power tubes. Electric phonograph with Majestic electric pick-up and electric motor-driven turntable. Phonograph switch combined with main tuning control. Volume control on front of set controls both radio and phonograph

GRIGSBY-GRUNOW COMPAN 5801 Dickens Avenue - Chicago, Illinois

EDISONS DADDOGRAPH COMBINATIONS

Here is the set the world awaited, heard, and *bought*! For it is the set that bears the greatest name in science. It is the Edison —and that is all the public needs to know about a radio! Thomas A. Edison, Inc., Orange, New Jersey.

Thomas a Edison_

The Thomas A. Edison, Inc., Radio Hour

"The Favorite Music of Famous Persons" played and sung by Edison Recording Artists.—Every Monday evening over the coast-to-coast N.B.C. Network.





EDISON DISTRIBUTING CORPORATION

ATLANTA, 155 So. Forsyth St. BOSTON, 96 South Street. CHICAGO, 3130 So. Michigan Ave. DALLAS, 500 Elm Street DENVER, 1636 Lawrence St. KANSAS CITY, 1215 McGee St. MINNEAPOLIS, 608 First Ave., N. NEW ORLEANS, 128 Chartres St. ORANGE, N. J. PITTSBURGH, 909 Penn Ave. RICHMOND, 1204 East Main St. SAN FRANCISCO, 1267 Mission St. SEATTLE, Volker Eldg.



8

C

CLEVELAND, B. W. Smith, Inc., 2019 Euclid Ave. DETROIT, E. A. Bowman, Inc., 5115 John R. St. LOS ANGELES, H. R. Curtiss Co., 727 Venice Blvd.
NEW YORK, Blackman Distributing Co., 28 W. 23d St.
OGDEN, Proudfit Sporting Goods Co., 2327 Grant Ave.
PHILADELPHIA, Girard Phonograph Co., Broad and Wallace Sts.
ROCHESTER, Alliance Motor Corporation, 727 Main St., East.
ST. LOUIS, Silvertone Music & Radio Co., 412 N. 12 St. Radio Retailing, March, 1929



The latest Crigsby-Grunow condenser (at left). Grigsby-Grunow has always used Alcoa Rudio Sheet for its variable condensers.

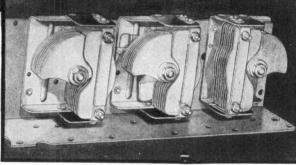
Alcoa Radio Sheet was first developed for Atwater Kent. The latest Atwater Kent condenser assembly is illustrated below.

AFTER more than two years of testing by the technical staff of Aluminum Company of America, and by the designing engineers of the leading manufacturers of receiving sets, nine manufacturers have adopted Alcoa Radio Sheet for their condenser blades.

In 1928 radio manufacturers used almost three times as much Alcoa Radio Sheet as was used in 1927, and more than six times as much as in 1926. In 1929 more than 6,000,000 single condenser units will be made of Alcoa Radio Sheet.

This wide and rapidly growing use of Alcoa Radio Sheet is due to its extreme accuracy of gauge, high electrical conductivity, unique freedom from vibrating, its lightness and its workability.

Paralleling the increased use of Alcoa



Radio Sheet are large increases in the use of aluminum for shielding, aluminum foil for fixed condensers, and aluminum die castings for loud speaker housings, chasses and condenser frames.

We will be glad to send you, on request, a copy of the booklet, "Aluminum for Radio."

Aluminum Company of America 2462 Oliver Building Pittsburgh, Pa. Offices in 18 Principal American Cities

Alcoa Radio Sheet, the exclusive product of Aluminum Company of America, is manufactured to limits of tolerance and uniformity hitherto unattainable. Its maximum total variation within a single sheet is $\pm .0005$ inch. Its sheet to sheet tolerance is $\pm .001$ inch. It is patent leveled, highly planished, and accurately sheared. We will be glad to quote on finished blades of high accuracy made from Alcoa Radio Sheet.

ALUMINUM The mark of quality in Radio



BELIEVING that fine tone quality is the principal desire of musiclovers, Webster has concentrated every effort on developing a pick-up of rarest artistic merit.

How well we have succeeded is evidenced by the sales volume accorded this pick-up over the entire country. Only recently have we been able to fill the flood of orders promptly, through a doubling in production capacity.

The Webster Electric Pick-up embodies many features that insure true fidelity of tone, and ability to capture the delicate intonations of any single or group of instruments. Every part is perfectly matched and balanced. Absolute travel freedom of the needle is assured by a frictionless stylus bearing. The built-in volume control in Model 1-A is a distinct improvement, making the unit extremely compact and simple to install.

Packed in convenient self-selling display cartons that bring constant turnover and profits. Regular wholesale and retail discounts apply. There is an increasing demand for this profitable article — order direct if your jobber is not yet supplied.



2

Webster Power Amplifiers used in conjunction with the Webster Electric Pickup provide new standards of perfection. When used in conjunction with the Webster Electric Pick-up you have an ideal sound-reproducing combination. Model A-210 List \$105.00 Model A-210 List \$115.00 Model A-211 List \$67.50 Prices slightly higher wet of Rochese

Prices slightly higher west of Rockies. Send for full details.

WEBSTER ELECTRIC COMPANY , RACINE, WISCONSIN



The Furniture for All ATWATER KENT Radios

Nodel 4700 Open



Model 4700 Closed

PRESENTING THE NEWEST RED LION No. 4700

This new Red Lion Cabinet is designed and built especially to house the new Atwater Kent Radio, Model 47, and the Atwater Kent Electro-Dynamic speaker.

It is, in every way, a fitting setting for this most advanced receiving set and speaker. Constructed with a five-ply, extra heavy baffle-board, it delivers the full value of

the marvelous Atwater Kent Electro-Dynamic.

> Price of Cabinet \$50^{.00}



RED LION ~ ATWATER KENT COMPLETE ENSEMBLE (Except Tubes)

Retailing at $^{\$}157^{.50}$

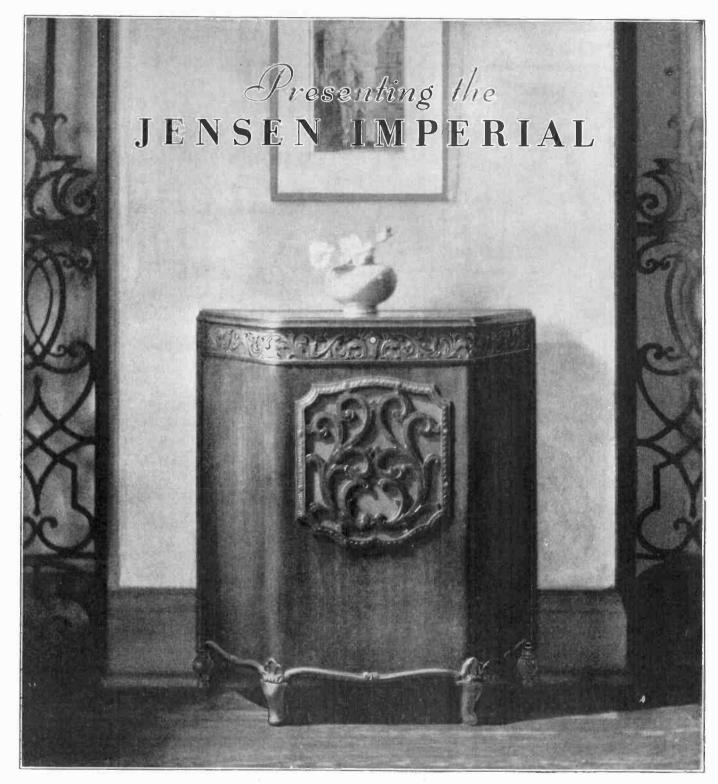
The sensational ensemble that has enabled the Atwater Kent-Red Lion dealers to offer a surpassing value in a complete radio of the highest order.

The new Model 155 Cabinet, with Model 46 Radio and Electro-Dynamic Speaker, needing only the tube equipment.



RED LION CABINET COMPANY

RED LION, PA.



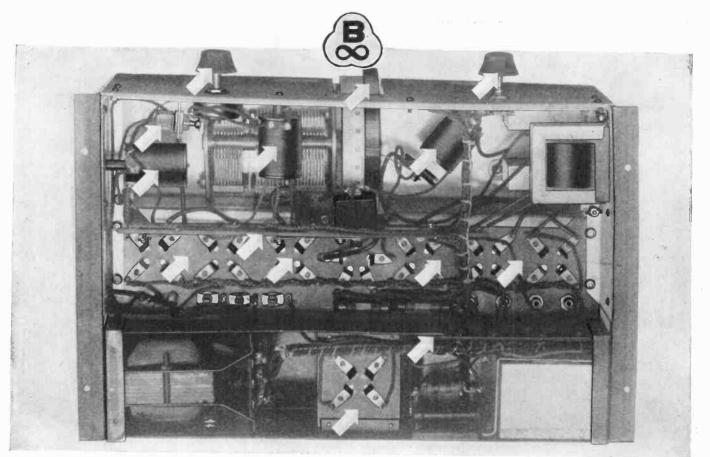
The Jensen Imperial, a magnificent reproducer with the new Auditorium Dynamic Unit perfected by Peter L. Jensen. Furniture design by Everett Worthington. * * * Music and radio loving America will demand this newly perfected reproducer capable of concert hall volume from push-pull amplifiers of the 250 type, but retaining full brilliance at softest living room volume. * * * Used with any type of radio receiver the superiority is the same. Models are now available for either 110 volt A.C. or D.C. operation. * * * Address the Jensen Radio Mfg. Co., 338 North Kedzie Avenue, Chicago, Ill., or 212 Ninth Street, Oakland, Cal. JENSEN PATENTS ALLOWED AND PENDING. LICENSED UNDER LEKTOPHONE AND MAGNOVOX PATENTS.





interesting Booklet. List Price, \$3.00 Send for Volume and Voltage Controls-Their Use.

BADIO CENTRAL RADIO LABORATORIES 30 Keefe Avenue, Milwaukee, Wisconsin



Chassis of Arborphone Receiver, showing some of the Bakelite Insulated parts. Made by Consolidated Radio Corporation, Ann Arbor, Mich.

Arborphone—like other fine Radio Receivers has Bakelite Insulation throughout

VOLUME, clarity, tone selectivity and range are all in a large measure dependent upon the proper insulation of the many sensitive elements of a radio receiver. The slightest loss in insulation value or change in physical dimensions may affect performance.

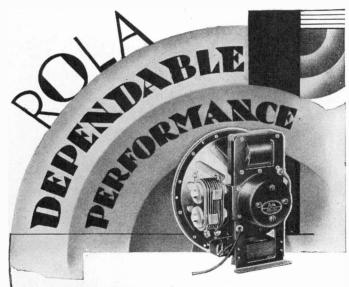
Makers of fine radio receivers, such as the Arborphone, can only afford to use time proven insulating materials such as Bakelite Molded and Bakelite Laminated. These insulations have proven themselves every step of the way, since the very inception of the radio industry.

Radio dealers are safeguarding their customers' interests, and their own, by making sure that

all radio sets and parts which they handle are Bakelite Insulated. Write for our Booklet 39, "Bakelite In Radio", telling story of the part these materials are playing in the development of radio.



Radio Retailing, March, 1929



ROLA REPRODUCERS

\ are used in the better makes of

Radio Receiving Sets Electric Phonographs Sound Film Installations Public Address Systems

and in the increasingly popular Rola Loudspeakers

WHEREVER you find sound re-creation of outstanding excellence, you will find a Rola Reproducer. Through faithful, consistent performance Rola speakers have established a reputation for freedom from maintenance troubles and for unequalled accuracy of reproduction. A A When you sell radio sets or electric phonographs Rola equipped ... when you sell Rola loudspeakers for use with table model sets you are sure of permanent customer satisfaction. A A For further information on Rola-equipped receiving sets or upon the complete Rola line of Electro-dynamic and Magnetic Speakers write A A A

IKULA CUNIPA

OAKLAND, CALIFORNIA

Forty-fifth and Hollis Streets

V V THE NEW Rola Electro-dynamic Units are now used as standard equipment in many makes of radio sets, electric phonographs, sound film installations and public address systems. The model in the illustration above is J-110, equipped for light-socket operation. Other models are wound for D.C. operation at from 6 to 220 volts. An inquiry will bring complete information and a description of each model.

CLEVELAND, OHIO

2570 East Superior Avenue

REPLACE WITH ACME NEW AUDIO TRANSFORMER





Special Trial Offer to Dealers

See coupon

Type 31 Radio 3-1 Replacement Transformer

Acme manufactured the first audio transformer ever offered for public sale in the United States. This was the famous Acme A-2.

Approximately nine million radio sets in use today in American homes. This means that about eighteen million transformers are working every day. It has been estimated that replacements total five hundred thousand per year.

Acme engineers have designed a good transformer at a low price:-Type 31 transformer.

This transformer has four cleverly placed oblong mounting holes which fit at least two holes on any subpanel. Savings have been made in the assembly and mounting arrangement combined with the fact that we make all parts in our own plant.

The coil is mounted on a shell type of core, which acts as an effective shield, an especially desirable feature when the transformers are to be used in A.C. receivers.

Overall dimensions are 2½ in. long, 2¼ in. high and 2 in. wide. DEALERS: You make your transformer replacement money off time and labor. We sell you these new audio transformers at \$1.00 each, two dollars the pair.

Just to show you radio dealers how good they are we will send anywhere in United States, prepard, a pair of these transformers for \$2, absolutely guaranteed, and when you see them if they are not exactly as you expected them to be, return them and we will send back your money. YOU RUN NO RISK.

Buy your sample order from us: Place your quantity order with your jobber.



Acme Apparatus Corporation Transformer and Radio Engineers and Manufacturers

39 Osborne St., Cambridge, Mass.

	**
Acme Apparatus Corp., 39 Osborne St., Cambridge, Mass.	
Here is my check, money order, eash, for $$2$, for which please send me two audio transformers which you guaranteed in every way and you agree to allow me to return if they are not just as 1 expected them to be; in which case you'll retund my money. This will be sent postpaid. Please send me free your builtein No. 100 describing your VR2 Voltage	
Regulator.	
Name	
Street	
City and State	

Increase your profits!

THE fact that the store makes a profit, in the last analysis, is the only reason for its existence. But in a great many cases the profit is not as large as it might be-due either to faulty methods of management or to antiquated systems.

How this additional profit can be obtained and the steps which must be taken in order to realize it are given in:

Methods of Retail Management

By WILLIAM E. KOCH, Business Counselor 272 pages, 6 x 9, 26 illustrations, \$3.00

The book presents the essentials of business management as applied easily and profitably by the retail merchant regardless of the kind or size of the store he operates.

It brings the retailer valuable ideas and practical plans which could be otherwise acquired only through years of specialized effort. It outlines rules of procedure which will not only result in greater sales but insure profit from these sales.

The book does not attempt to tell any retailer how to run his business, but it does formulate and present to him principles which have proved to be fundamentally sound and effective in preatice-principles that will make his selling efforts bring the maximum profit.

ments. Other Simple Forms That Guide High Lights in Ruying. to Consistent Assortments. High Lights in Controlling. How a Better Expense Budget High Lights in Selling. Leads to Greater Retail Profit. A Study of the Selling Price

Name

 The Age of Management.
 Gaging Profit By Lines.

 The Profit-making Program.
 How Fast Should the Merchan-dise Move?

 What the Retailer (an Do With Sales Quotas,
 How Fast Should the Merchan-dise Move?

 A Practical Basis for Positive Control of Retail Stocks.
 A Study of Mark-up Percentages.

 How Consistent Stock Assort-ments Are Developed and Maintained.
 How Should the Bookkeeping System Accompilsh?

 How a Simple Buying Guides to Consistent Assort-ments.
 More Profit Through Better Use of Figure Facts.

METHODS OF

VANAGEMEN

COUPON

KOCH

Order a copy NOW-Use This Coupon

McGraw-Hill Book Co., Inc., 370 Seventh Avenue, New York,

You may send me on 10 days' approval, Koch-METHODS OF RETAIL MANAGEMENT, \$3.00 net postpaid. I agree to remit for the book or to return it postpaid within 10 days of receipt. (To secure books on approval write plainly and fill in all lines.)

Home Address City and State..... Name of Company..... Occupation

(Books sent on approval to retail purchasers in U. S. and Canada only.) R.R. 3-29

FREE EXAMINATION

Acme Wire Products

Parvolt Filter and By Pass Condensers Coils-Magnet Wire Wound Varnished Insulations

Magnet Wire - - All Insulations

All products made to Recognized Commercial Standards, including those of:

National Electric Mfrs. Assn. Radio Manufacturers' Assn. American Society for Testing Materials

For 25 years manufacturers and suppliers to the largest and most discriminating users. . .,

THE ACME WIRE CO. NEW HAVEN, CONN.

Branch Offices

New York 52 Vanderbilt Ave. Chicago

Cleveland Guardian Bldg.

842 N. Michigan Ave.



Contents

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Radio Retailing, March, 1929

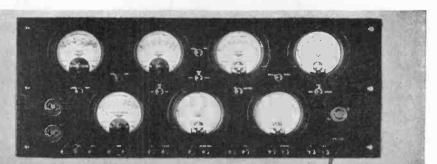
The Jewell 199 Set Analyzer, combined with Jewell Set Analysis Charts and Jewell "Instructions for Servicing Radio Receivers" eliminate guesswork by putting radio service on a thor-oughly scientific basis. Radio men everywhere find that this remarkable set analyzer not only reduces time required for set servicing, but also reduces number of repeat calls and eliminates comebacks. Ask your jobber's sales-man about the Jewell Method of Servicing.



The Jewell No. 210 is the first tube tester to give direct readings, thereby eliminating mental arithmetic. It provides for variations in line from 100 to 130 volts. Tests all tubes. A 100 milliampere scale is provided for rec-tifier tubes. Gives individual teading of each plate of double wave rectifier tubes. Operates from A.C. service line



29



The Jewell No. 581 Test Panel makes it easy to test sets rapidly. The large precision instruments with long scales make for accuracy. The convenient cord with 5-prong plug and 4-prong adapter provides for testing of circuits in the radio set with the tube, a socket for which is provided in the panel. Panel can be conveniently mounted on a suitable bench in your shop. Order from jobber or write for data.

Good Radio Instruments Assure Servicing Profits!

Your radio service instruments not only have a direct effect on the efficiency of your service organization, but in addition they are an important factor in maintaining the confidence and good will of your customers.

Jewell Radio Service Instruments take the guesswork out of radio servicing. Jewell methods of testing, developed through a careful study of radio service problems, scientifically locate trouble with minimum delay, thereby saving time and assuring customer satisfaction.

You should know about the time saving and business building possibilities of Jewell Radio Service Instruments and the Jewell Method of Radio Servicing.

> Ask your jobber's salesman or write us for complete information about Jewell Instruments that enable you to convert service liabilities into profits. Mail the coupon.

> > Name --

Address

YEARS MAKING GOOD INSTRUMENTS Inforendit antiputation HI] JEWELL SET ANALYZER 199

Jewell Electrical Instrument Company 1650 Walnut St., Chicago, Illinois Of course we want to know all about the Jewell Method of Set Analysis, Without obligating us send your book, "Instruc-tions for Servicing Radio Receivers."





Here's Where the PROFIT Is!

WHOLESALERS PLEASE NOTE

We are prepared to cooper-ate actively with all responsible wholesalers who wish to distribute Perryman Tubes. Our cooperation takes the form of intensive advertising in your own territory, right where it does you the most good. Write for our 1929 proposition.

The patented bridge in Perryman Tubes gives to Perryman Dealers permanent profit. Free from replacement worries.

The Perryman guarantee is based on the Perryman Bridge. Jars and jolts do not affect Perryman tubes. The bridge holds the elements in proper alignment, top and bottom-just as the cross bars support the pickets of a fence. Springs set on the bridge allow for filament expansion and contraction.

Dealers who sell Perryman Tubes get a fair profit on every sale—and keep it.

If you want to increase your net return on tube sales, write us at once for further information.

PERRYMAN ELECTRIC COMPANY, Inc. 33 West 60th St., NEW YORK, N. Y. Laboratories and Plant: NORTH BERGEN, N. J.



A Complete Line of Standard Equipment for every Radio Purpose







For superior radio performance the Bremer-Tully Eight is *without* equal.

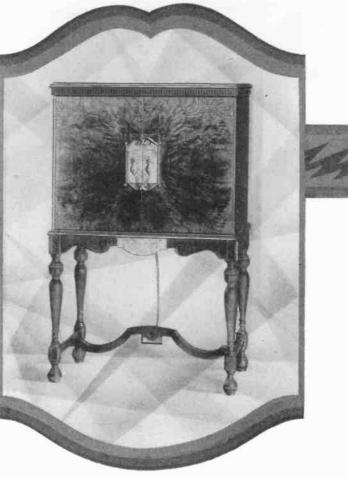
Its many exclusive features—the rejector, the patented selector and new B-T tone control—accomplish results heretofore believed impossible.

The B-T Eight has no competition.

For a More Profitable Business

Bremer-Tully has proved its dependability thru eight years of unparalleled success.

Thousands of Bremer-Tully dealers have found thru experience that that dependability spells profit for them.



That is why they are content to continue their franchises year after year. They know that when they sell Bremer-Tully Radio they sell satisfaction—and repeat orders.

Investigate the Bremer-Tully record and you, too, will want the franchise year after year.

The coupon will bring details.

Bremer-Tully Mfg. Company

656-662 Washington Boulevard, Chicago

Comprising the B-T line are five models priced from \$115 to \$490—a set for every reasonable requirement.

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Announcing A New CORBETT CONSOLE

Crosley and Atwater Kent Receivers

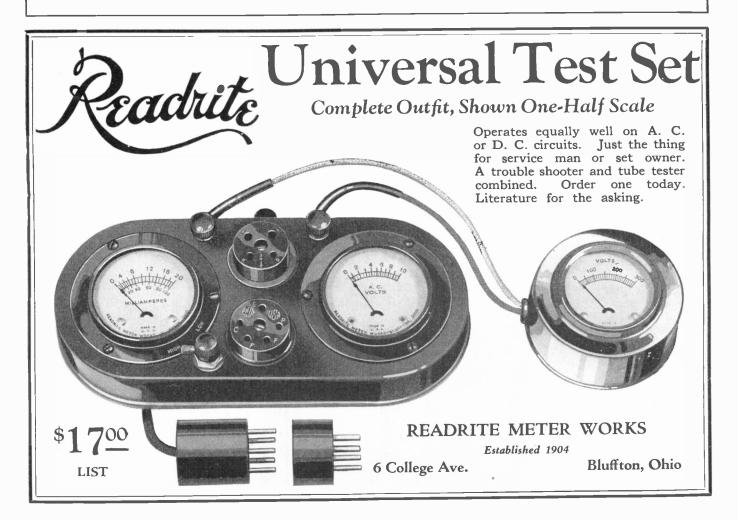
Corbett walnut sliding door consoles in stock for Crosley, Atwater Kent, Fada, Bosch, Eveready, Freed Eisemann, Pierce Arrow, Buckingham and other receivers.

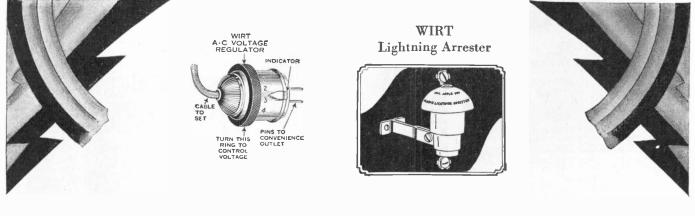
Special baffles installed for Dynacone and Atwater Kent Dynamic Speakers when ordered for these receivers.

Prices on walnut sliding door models ranging from \$19.50 up.

DEALERS: You will be interested in our new bulletin and price list. Write for it today.

CORBETT CABINET MANUFACTURING COMPANY St. Marys, Penna.





You can't sell what you don't have

Wirt products move. They are vigorously advertised in Collier's Weekly, perhaps better known to radio fans and to radio audiences than any other general magazine today. They are being pushed by thousands of radio dealers. They move fast!

The Wirt A. C. Voltage Regulator fills a long-felt want and there is nothing else like it on the market. It is the "safety valve" for voltage "surges" and line noises. Every service man should carry a pocketful. He can sell one on nearly every call. \$2.25 list.

Wirt Lightning Arrester is dependable; a real protection for every set as well as every home. Sturdy and good looking. Sells for only \$1.00.

Standard discounts on both lines. Order from your regular jobber -NOW! You can't sell what you don't have. For convenience fill in and send in the coupon.





the well-known addition to household lighting comfort and
beauty. Perhaps you can carry Dim-a-lite, it is a profitable
item and easy to handle.
Here's a good display idea. Get a modern standard (we

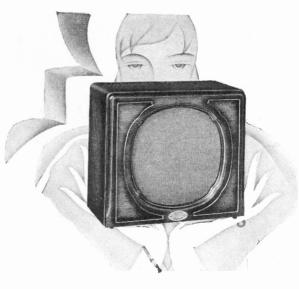
There is a good display idea. Get a modern standard (we can supply at cost); put on it a No. 23 Dim-a-lite with tags, which we'll furnisk free, and z 40-watt bulb. Then place the outfit on a counter, connect it up, and let your customers play with it. This sure sells Dim-a-lites! They cost only \$1.00 for No. 23, 25 to 40 watt size; and \$1.25 for No. 23A, 50 to 60 watt size.

Send for *free* booklet, "Many Lights from One Bulb," if you want to know more about Dim-a-lite and the part it plays in modern home lighting.

/	Wirt Company, 5221 Greene St., Philadelphia, Pa. RR 3-29 Please send me by return mail
	display cartons of 10 Voltage Regulators, No. 211
	display cartons of 10 Wirt Lightning Arresters, No. 200 Free interesting booklet "Many Lights from One Bulb."
	Bill through(jobber)
	Name
	Address
	TownState

128

STATISTICS CONTRACTOR OF STATES The Beede Line Conaffords genuine trol insurance against burnt - out tubes and alperfect lows operating voltage of all A.C. tubes List Price \$8.00 Dealer Price \$4.80 No. 275 Line Control Beede The Line Tester is a convenient and accurate method of test-ing A.C. Line Voltages. Sim-ply plug into No. 75 A.C. Line Tester 50 100 150 the receptacle .C.VOLTS Ø 0 or socket. E METER List Price \$3.00 Dealer Price \$1.50 Every Service Man realizes the importance of being able to check plate voltages right in the socket. The Beede method is the simplest and best. List Price \$3.00. Dealer Price \$1.50. Beede Electrical Inst. Co. Penacook, N. H. CHICAGO REPRESENTATIVE Darmstader, 326 West Madison St. Chicago, Ill. S. B. No. 50 Plate Voltage Meter Aerial No More New. New! BUD Tried ANTENNA ELIMINATOR Tested PRICED It Works AT ONLY AND \$3.50 SELECTOR Absolute Satisfaction FIRST AND LAST COST Guaranteed C Science's Latest Contribution The unsightly and troublesome aerial is at last replaced by the more modern and scientific— **BUD ANTENNA ELIMINATOR** AND SELECTOR No larger than your billfold, and enclosed in bakelite—this simple little device can easily be hidden away (inside the cabinet, if you wish) where it will, without any further attention— GIVE YOUR ELECTRIC SET More Selectivity Less Interference And none of the grief which has always heen associated with the now antiquated aerial. The thousands who have already bought the BUD ANTENNA ELIMINA-TOR AND SULECTOR are your assurance that it is truly "THE WORLD'S MOST EFFICIENT AND MODERN ANTENNA." MANUFACTURED BY **BUD RADIO, Inc.** 363 Erie Bldg., Cleveland, Ohio



Radio Retailing, A McGraw-Hill Publication

Change in design of the speaker opening and attractive routing on the front panel have greatly enhanced the artistic appearance of the Model Fifteen $\infty \infty \infty$

IMPROVED DESIGN Now Quality Performance Combined with Greater Eye-Value

\mathbb{ROL}_A for only \mathbb{SZ} .50

W IDESPREAD popularity with a reputation as one of the fastest sellers on the market has been won by this new speaker in less than three months. The Rola Model Fifteen has led the field in giving radio users finer performance for less money. Now the Model Fifteen with its improved cabinet design offers greater eye-value, greater beauty, with no change in performance and *no increase in prices*.

A New Market for Dealers: Thousands of radio users who are not prospects for the more expensive speakers desire the greater realism, greater power, greater volume of Model Fifteen at the low price of \$22.50. Here is your opportunity to go after this popular-priced market with a quality speaker that you know will give permanent satisfaction. Now, with added beauty, the rapidly selling Model Fifteen will prove an even more profitable item. Ask your jobber for full details on the 1929 loudspeakers or write to the nearest factory for name of Rola jobber.

MANUFACTURERS: The new Model M Magnetic Armature Unit is ideally adapted to built-in consoles and speakertables. It is the same unit a. installed in the Rola Models Fifteen and Twenty. It has the Rola full-floating diaphragm and responds to all tones between 100 and 5000 cycles per second in frequency. Inquiries for details, blueprints and prices from responsible parties are solicited.



List Price \$15

Electro-dynamic and Magnetic Speakers for every Radio Installation + + + + +



-

Radio Retailing, March, 1929

Wanted 138 Energetic Responsible Dealers who wish to increase their earnings \$20000 to \$50000 per Month

In one hundred thirty-eight choice localities of the United States we are looking for a dealer—the *right* dealer—to handle The Capehart Orchestrope, the commercial repeating phonograph which has at last, put the industry upon a basis of real quality and real profit.

To the right dealer, this proposition offers the possibility of profits amounting to \$2000.00 to \$5000.00 a month. We desire to correspond with established, responsible dealers who can measure up to this possibility. To such, we are prepared to prove by ample evidence that our estimate is not an exaggeration. We will show records of territories where it is *being done today*, and how, with the right kind of intelligent, energetic sales effort, it can be done in any other territory.

The Product

The Capehart Orchestrope has finally taken the commercial phonograph from the "hurdy-gurdy" classification and made of it an instrument that is a source of profit and prestige to any public establishment. It plays fifty-six selections, twenty-eight records on both sides, without repetition.

New outdoor park model and speaker now ready for amusement parks, pavilions, a u ditoriums and other places requiring especially large volume. wenty-eight records on both sides, without repetition. It plays continuously and automatically, without attention, for twenty-four hours a day, if desired. It uses three stages of electro-dynamic amplification, giving a tone quality that is startlingly true to life. Its volume is adjustable to any requirements, from a small room to a tremendous auditorium. It is supplied with or without coin-operating attachment.

The Market

Any public establishment that can profit, directly or indirectly, by the presence of good music, is a prospect for the Capehart Orchestrope. Every hotel, beauty parlor, billiard parlor, cafe, club, community house, confectionary store, dance hall, drug store, hotel, luncheonette, news and cigar store, pleasure boat, restaurant, soda fountain, summer park, tea-room, theatre and tourist camp is a prospect.

Orchestrope dealers are assisted in their sales by a complete advertising and circularizing campaign directed to their prospects by the Capehart Company.



Sold only thru dealers.

CAPEHART AUTOMATIC PHONOGRAPH CORP. HUNTINGTON INDIANA

Capchart full page ods to the user are now being run in the following papers: Soda Fountain Sweets Northwestern Confectioner Drug Trade News Drug Topics N.A.R.D. Journal American Druggist Retail Druggist Northwestern Druggist Pacific Drug Review American Restaurant Restaurant Management Roadside Refreshment. Topics Keelers Pac. Coast Hotel Wkly. National Hotel Review Hotel Management Hotel Bulletin Pacific Coast Record Golfilom



Mail this coupon now

If your organization has the equipment to develop the large profits which lie in this product in your territory, kindly fill out the coupon and mail it to us at once. Our representative will outline to you, without obligation, just why and how the right dealer can make and is making \$2200.00 to \$5000.00 a month with the Capehart Orchestrope, and he will explain why this instrument is the first—and the only one—which fully meets the requirements of an *enger* market.

Capehart Automatic Phonograph Corporation, Dept. 4853, Huntington, Indiana.

Gentlemen: Please send me without obligation 'descriptive literature on the new Capehart Orchestrope and detailed information with reference to your exclusive dealer franchise now open to only 138 more dealers.

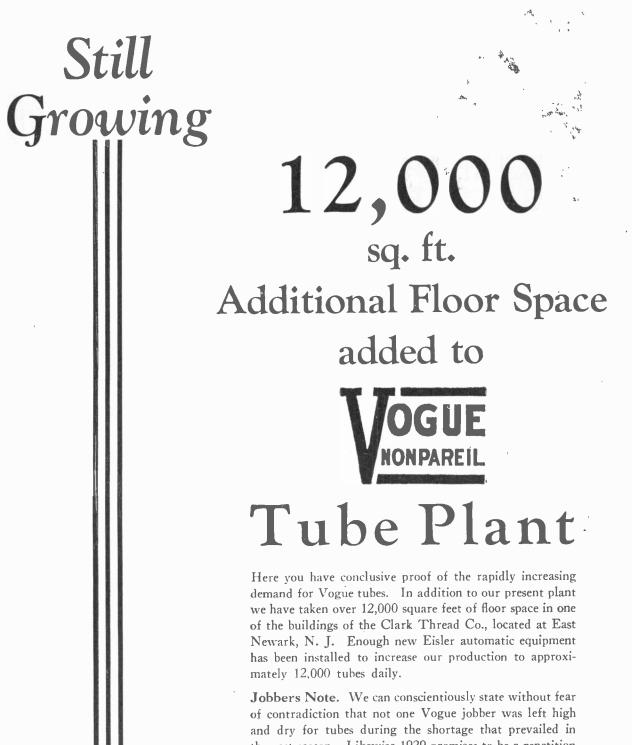
Name

City

130

Radio Retailing, A McGraw-Hill Publication





the past season. Likewise 1929 promises to be a repetition of this same condition. We absolutely assure those jobbers that tie up sufficiently early on this profit-producing line this year that they will have our unquestionable cooperation in keeping them supplied with merchandise. The same 100% guarantee prevails.

Write or wire now for further information.

ALLAN MANUFACTURING CO., Harrison, N. J. Los Angeles: 487 Chamber of Commerce Bldg.





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R

GENERAL EXHIBITS AND MANUFACTURERS' Demonstration Quarters Will Be Held at the Following Hotels

STEVENS BLACKSTONE AND CONGRESS

The exhibitions and demonstration quarters of the various manufacturers in each hotel will be equally prominent and important. It will therefore be necessary for all dealers and jobbers to visit the exhibitions and demonstrations in the three official hotels in order to get a comprehensive view of the entire Trade Show.

Plan now to go. There will be special reduced railroad rates from all points.

Radio Manufacturers' Association Trade Show, Room 1800 Times Bldg., New York Under Direction of U. J. Herrmann and G. Clayton Irwin, Jr.

0

Space Donated by Radio Retailing-Copy and Layout by Frank Kiernan & Company



Wire or 'Phone

SEARCHLIGHT

DEPARTMENT.

10th Ave. at 36th St., New York City Surplus Radio Stocks

Highest Cash Prices Paid. Write or Wire. FULTON RADIO CO.

16 Hudson St., New York City, N. Y.

· Jr v

These charts have the famous RADEX method of tuning which automatically calibrates the set, showing frequency and wave length to which set is tuned for any dial readings.

> THE RADEX PRESS P. O. Box 143, Cleveland, O.

SEARCHLIGHT SECTION

Even if you bought in carload prices so attractive and items



The New Gould Kathanode GOULD PRODUCT (With Built-In Relay)

Automatic Radio "A" Power From Light Socket

Model A.C. 6K (6-volt) Kathanode Unipower is the highest quality "A" Power Unit built. Furnishes rich, smooth, unfailing "A" current, without any trace of hum, which is auto-matically replenished from the light socket. Installed in less than three minutes, makes any set as simple and convenient to operate as an expensive A.C. outfit at only a fraction of the cost. No rewiring necessary in your set.

are needed.

cycle A.C. current.

tories.

Dubilie

The Kathanode construction uses the glass mat retainer, which insures extra long life of the battery elements and when sold it will require no servicing. It is very economical and will outlast several storage batteries. This exclusive patented feature (Kathanode) is used and approved by the United States Gov-ernment for its submarine batteries, which are furnished by Gould.

Equipped with a new noiseless Balkite Charg-ing Unit which has four graduated charging rates, and in addition one booster rate $(1\frac{1}{2})$ amperes) for an emergency charge, which en-ables it to properly take care of all sizes of sets and conditions of operation. Operates on 110-120 V. 50-60 cycle A.C. current. Com-plete with extra fuse.

List Price \$39.50 Ea.

Special \$9.75 Ea. Lots of three, \$8.50 " Lots of six, \$7.50

NOTE

All units offered in this advertise-ment are BRAND NEW, packed in original factory sealed carton and fully guaranteed!

TERMS:--20% cash with order, balance C.O.D. f.o.b., New York, (2% Discount for Full Remittance with Order.)



Genuine R.C.A. (RCA)

March, 1929

Radio Retailing

These excellent detector tubes draw one amp. Due to the extreme low prices of these tubes, we cannot allow replacements.

However, every tube is brand new and packed in the original factory sealed carton, we having pur-chased them direct from the Radio Corporation of America.



March, 1929 Radio Retailing SEARCHLIGHT SECTION

lots, it would be difficult to get as good as those offered here!





Sold only in Carton lots of 50

SCANLAN

A. C. Filament Transformer

(Model 413)

Supplies up to-six 226 tubes, one 227

tube, two 171-A tubes

This Scanlan A.C. Filament Transformer fills a very definite existing need for an accurate and reliable Transformer. Will not overload or heat up. Used in conjunction with an A.C. Cable Harness such as the Eby, Carter, Naald, Enterprise, Sterling, etc., which makes an ideal combination for converting battery sets to A.C. operation. No rewiring necessary. For 110-120 volts, 50-60 cycles A.C. current.

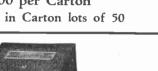
Look at These Features!

List Price \$9.00 Ea.

Special \$2.00

Green crackle finish case.

Absolutely correct voltage. All voltages center tapped. "B" Eliminator Plug-In. Sturdy and Compact. Wire to panel switch.





Vitalitone

36 in. CONE SPEAKER KIT WITH GENUINE VITALITONE **POWERFUL MAGNET CONE UNIT**

This 36-in. Cone will reproduce all the low as well as the high frequencies with absolute fidelity.

Every component part of this kit is of the same high quality that made Vitalitone famous.

Can be easily assembled by anyone in a very short time with only a screwdriver.

All parts complete-nothing else to buy. List Price \$12.00

> **Special \$2.90** (The Unit Alone Is Worth More)

-LAST MINUTE SPECIALS-

Size overall

	t Output Transformers, 1-1 ratio				Price			
E-210 B	radleystats, fine A.C. line voltage con	ntrol "	4.00		66		66	
New Al	gonquin Cone Speakers	"	15.00	66	66	3.95	66	
Reliable	Automatic Relays. Automatic Po	wer						
Con	trol Switch for use with trickle cha	rger						
and	"B" eliminator	"	2.00	66	66	.35	66	
Scrantor	Storage Battery Cap Testers, set	s of						
. thre	e; descriptive booklet on request	"	2.00	. ""	44	.37	per s	et
Timmor	s Combination 210 Power Ampli	fiers					-	
and	"B" Supply Units	"	70.00	6.	"	17.50		

19-21 Warren St., New York, N. Y.





PXY-1 Model R-20. Complete "A, B & C" Eliminator and 210 Power Amplifier

This is the new, improved Powerizer, exceptionally fine for use in conjunction with Dynamic Speakers, which require the use of a 210 power tube to bring out their best tone quality. Also can be used with any Cone Speaker.

It is a "B & C" Eliminator furnishing "B & C" current to the entire Radio Set, also a Super Power Amplifier furnishing "A, B & C" current to the 210 power amplifying tube. Simple to connect, no rewiring necessary in the set. Comes equipped in the last audio tube socket. Has fila-ment windings which will also supply A.C. current for the A.C. tubes, if desired. Uses the UX-210 super power and the UX-280 full wave rectifying tubes.

Using this Powerizer with any Battery or Electric Set will bring out the finest tone reproduction and volume, comparable with the results obtained from any of the best modern receivers.

Operated direct from light socket; 110-120 V., 50-60 cycle, A. C. current.

List Price \$59.00 Ea.

Special \$16.50

(Complete with Harness)

Manufacturers and Jobbers

We are prepared to offer each for surplus stocks of Radio Merchan-dise. This means of course stock in first class condition and in such volume that insures a good value to our many established buyers. Send details of your offerings for quick action.

SEARCHLIGHT SECTIO

March, 1929 Radio Retailing,

R. C. A. "B" ELIMINATOR

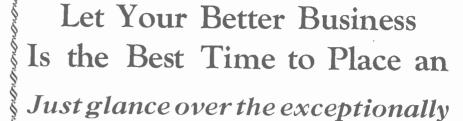
The new RCA "B" Elinina-tor is a decided improvement over all previous types. It is sturdy, compact and relia-ble. The cost of operation is unusually low and it will last indefinitely in service. The power output is ample for sets having up to eight tubes with a power tube in the last stage.



A junction type of Rectifier is used, requiring no atten-tion or replacements during its exceptionally long life. LIST PRICE \$48.00

son man man man man and man and

Dealer Cost, \$17.50



Q-15 POLYDYNE All-Electric Receivers List Price, \$69.00

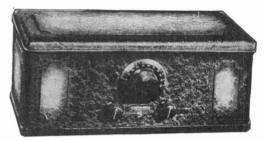
Atwater Kent (POOLEY)

ARMCHAIR

CONSOLE

A genuine Pooley Cabinet made for the Atwater Kent set. Built-in Pooley speaker, Battery com-partment and tool drawer, Finished on all four sides. Suitable for A. K. No. 20 Compact Set and No. 30, LIST PRICE, \$75,00 Dimensions: Height 3114

Dimensions : Height, 31 1/4 in.; Length, 22 1/2 in.; Depth. 17 1/2 in.



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The Q-15 all-electric screen grid set uses 5 tubes, 1-222, 1--227, 1—280 and 1—171A. Altho this set has only 5 tubes, owing to the famous screen grid circuit it is as good as any 7 or 8 tube set. Small, compact and neat. This table set has single dial operation, with volume control, selector and switch. Finished in dull brown and gold lacquer with stippled effect. 181/4 inches long, 8 inches high, 81/2 inches deep.

> (No Set included)



Argus 210 Dynamic Power Electric Set

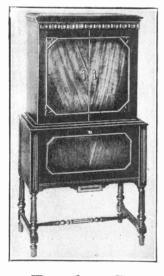
The Argus Electric is a real power receiver—just plug in the nearest base plug or wall socket. Costs less than one cent per hour to operate. Uses standard tubes and a 210 (ube in the last audio stage. Two Illuminated Dials. Voltmeter on panel. Tip-jacks for phonograph pick-up. Designed for use with five type UX-199, one type UX-210 and two type UX-281 tubes. For A.C. 110 volt, 60 cycle current. No tubes included.

List Price, \$195.00

Dealer Cost. \$37.50

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FRESHMAN Mahogany CONSOLE



The console is 53 in, high, 27 in, wide and 16 in. deep. The panels are cut out 8 x10 in, now but can be re-cut to accom-modate any set with panel up to 10.5 in, x 22 in, and 15 in, deep.

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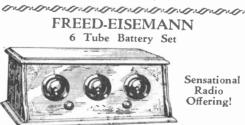
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Beautifully matched mahogany veneers throughout, hardwood legs and crossbar for strength and delicate-ly decorated with overlays. 6

The two doors are of the disappearing type that turn back out of the way. The roomy bottom com-partment is suitable f or accessories or makes a very fine sil-ver or linen chest.

No Set or Speaker Included



Dealer Cost, \$9.50

The set employs the popular tuned R.F. Hook-up and is wired for power tube. Switch for power time. Completely shielded, 3 stages, T.R.F. 1 Detector and 2 Audios—six tubes. Stippled panel, genuine Mahogany Cabinet, List Price, \$80.

Dealer Cost, \$11.50



Crosley Musicone Tip-Table Model Mahogany Base

The secret of Crosley's faith-ful reproduction of all tones lies in the patented actuat-ing unit—an exclusive Cros-ley Feature found only in the "Musicone."

Perfect reception is assured —there is never any metallic sound or distortion to mar the reproduction.

List Price, \$27.50 **Dealer Cost**, \$3.75



Dealer Cost, \$22.50

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List Price, \$115.00 (Less tubes and speaker)

N-11 POLYDYNE All-Electric Table Set

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This circuit is a seven-tube tuned radio frequency design embodying the exclusive Polydyne System of stabilization.

Foryayne System of stabilization. N-11 employs three stages of tuned radio frequency, detector and two stages of improved audio amplification using 4— 226, 1—227, 1—250 and 1—281 recti-fler tube.

UX-250 Radiotron is used in last audio stage, making set suitable for dynamic reception of extreme volume without dis-tortion.

tortion. Model N-11 has illuminated single dial operation, with volume control and switch. All-electric receiver. Finished in dull brown and gold lacquer with stippled effect. 19 inches long, 10 inches high and 11½ inches deep.

Dealer Cost, \$35.00 nonmon ひしつしつしつしつしつしつしつしつしつしつ

THE NEW PACENT CONE

New and improved oversize unit. Flawless reproduction. Takes the tre-mendous power of a power amplifier or power tubes without ratile or blasting. Has extreme sensitivity, reproducing the highest violin notes down to the zooming of the bass viol without dis-tortion. Greater rigidity and rugged-ness in construction.

LIST PRICE, \$28,50



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Castle Cone A 17 inch free edge cone protected by metal rim. а

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An opportunity to buy real ship model speakers. Height 18 inches. Dealer Cost Each \$4.50

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Ship Model

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577

ALL ELECTRIC TAB This set embodies the world famous Ortho-sonic Tone; Single Dial, electrically illuminated; Alternate Selectivity; Vernier Control, assur-ing maximum results from every station; Federal push-pull amplifi-cation; New-type Control, perfect volume gradation; All-Metal Chas-sis, mechanism completely enclosed; Light Socket operated. Uses three 226. one 227, two 171 and one 280 tubes, Genuine Mahogany Cabinets, rich Walnut finish.

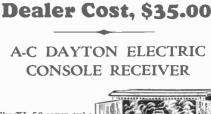
Service Corp.



LIST PRICE, \$130.00

Dealer Cost, \$42.50 っしつしつしつしついついのののの **FREED-EISEMANN** The New Freed-Eisemann Cone Speaker is 26 in. in diameter, making it one of the largest on the market today. It has a 20-foot cord, allowing removal from set to adjoining room. Faithful reproduction of all notes from the lowest to the highest. 🕆 Dealer Cost, \$7.50

ALL ELECTRIC TABLE MODEL H-10



Model XL-50 Electric Receiver These sets are seven tube sets consisting of 3 stages of tuned R. F. and one tuned detector and two stages of tuned audio using 6 - 227 and one Raytheon.

Raytheon. This 7-tube all electric re-ceiver is char-acterized by simple tuning. The cabinet and wooden panel are of beautif ully grained wal-nut, and all controls a re grouped on a beautif fully mbossed bronzed instrument plate. Uses all new A.C. Tubes. Dimensions are 22 in. long, 9 in. high and 9 in. deep. For 110-120 volt, 50-60 cycles, A.C. current,

For 110-120 volt, 50-60 cycles, A.C. current, List Price, \$175.00

The XL-50 seven-tube receiver installed in this beautiful cabi-The dimensions of this cabinet which are 22 in, wide x 15° in, deep x 40 in, high, Built-in Ortho-phonic S p e a k e r. O n 1 y the finest grained and matched walnut veneers have been used on it. Uses all new A.C. Tubes. Complete "ready to operate on net. The this ready to operate on 110 volt 50-60 cycle.



Dealer Cost, \$43.00

A-C DAYTON ELECTRIC **Console GRAND Receiver**

The compact XL-50 seven-tube A.C.g Dayton receiver is installed in the famous AC Day-ton Duophonic Console G r an d. Has two Air Col-umn Speakers, Uses all A.C. Tubes, Cabinet of walnut especially s e l e c t ed and matched g r a i n, t r im m ed with bird's eye maple. Complete: ready to operate on 110-120 volt, 50-60 cycles A.C.

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Brooklyn, w York, N. Y.

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Dealer Cost, \$49.00 mmmmmmmmm 20% with order.

Balance C. O. D. All Merchandise Brand New. **Only Certified Check** or Money Order.



The GRUEN Six Tube Battery Set

Late model, uses 3 stages R. F. and 2 stages A. F. Totally shielded, jacks for phonograph pick-up and power amplifier, wired for any type power tube. Beautiful bronze escutcheon, single dial control. Shipped

in plywood cases.





CHELSEA Treasure Chest Seven Tube All-Electric

Well made steel constructed chassis. Power Pack (licensed by R. C. A.). Uses $1{-}{-}227,\ 4{-}{-}226,\ 1{-}{-}171$ and $1{-}{-}280$ rectifier tube.

Beautiful bronze escutcheon and illuminated single drum control. Massive Mahogany Cabined with genuine burl panels. The most beautiful set you have ever seen. This all-electric receiver is the best "buy" on the market. It's beautiful cabinet will sell the set alone, and — The Price!! Order a sample today.



Ferguson All-Electric 7-Tube Receiver

Set uses 1-227, 4-226, 1-280 and 1-171 with full 180 volts on plate. Acme power supply unit and C. R. L. volume controls. A limited quantity at this special price. All sets guaranteed.

DEALER NET PRICE



All Sets guaranteed new and in original packing. Phone As-toria 5492.

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Terms: 3% discount on full remittance, or 20% with order, bal-ance C.O.D.





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THAT'S what the dealer says as he checks his sales. Not just "pretty good", "profits average", or any other half-hearted endorsement. More likely it's "wish my whole stock were half as lively as Gold Seal. What a tube!"

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Make the occasional tube customer a regular by showing him that you carry the full line of RCA Radiotrons -and are never out of stock. A radio customer who has had to waste his time shopping from dealer to dealer for tubes is glad to find a store that can always be depended upon to be stocked with the complete line of **RCA Radiotrons.**

Superior resources of research and manufacturing guarantee to RCA Radiotrons the finest possible quality in vacuum tubes. They are the standard of the industry-and so accepted by both the trade and the public.

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