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THE NEWSPAPER FOR THE HOBBYIST OF VINTAGE ELECTRONICS AND SOUND

# THEHORN 51

THE AERIOLA GRAND

#### BROADCASTING RECEIVER, MODEL RG

1922

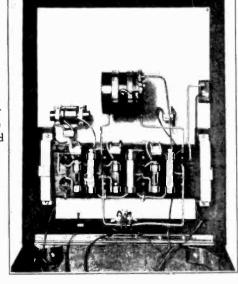


Aeriola Grand offers all that may be desired of modern radio telephone broadcasting. Its use makes possible the radio dance, the radio concert, the radio party.





An Interior View of the Aeriola Grand Receiver



Television

1930



Television receiver. Picture is three inches square and has a pale, pinkish glow.

### EDITOR ETTERS

EDITOR'S MAILBAG

Dear Mr. Cranshaw:

I noticed in this issue of The Horn Speaker you are looking for people who restore items in the New York area. You may use my name, I restore radios, phonographs, etc. Best Regards,

Richard M. Cane 103 Spring Street Passaic, N. J.

Dear Jim:

I heartily congratulate you on the article that appeared in the HORN SPEAKER.

I own an old Zenith (Model # 128 sets in their collection and have 568, Chassis # 12A1). It's a 3 information such as a booklet or

I'd like the years the radio was produced and any other in- MAIL. Below is a Hand-Made Diaformation about this radio avai-

Sincerely, Brent R. Miller 1730 Magdalene Way Johnstown, Pa. 15905 EDITOR'S NOTE. . . O. K. Zenith experts.

Dear Jim:

Fine enclosed my check for \$3.00. I sure don't want to miss any issues. I am slowly getting more sets for my collection. Was lucky and got hold of 2 Grebe 1921 sets that had never been sold. They are in excellent condition. Sure would like to find a bread board (A. K.) but they are so high.

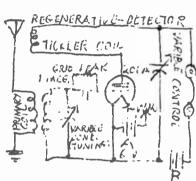
Would like to visit again with you.

Yours, W. S. Miller 2212 10 St. Greeley, Col. 80631 Dear Sir:

I am writing to say that your paper, THE HORN SPEAKER is excellent and appreciate it if you would put this letter in your column "Editor's Mailbag." I am trying to get as much information about a one-tube radio set made by the A.C. Gilbert, which was located in New Haven, Conn. The set uses a UV-201-V Brass Base Tube with tip.

The Company made a Crystal Set in 1922, which is shown on page 71 of VINTAGE-RADIO, My guess is, this set followed the crystal set and was the forerunner and beginning of vacuum tube radio sets made by this Company.

The year this set was made is unknown, it has no patent number, the only clue is written in pencil, repaired by 911, located on the botton of the set. This set is possibly made by the factory and not a kit. If any of your readers I once again need help. You see, have one of these one-tube-radio band AC MODEL with 12 tubes. paper on it, I would appreciate if if they contact me THROUGH THE gram of the set.



Any information on this set would be helpful.

Thank You. Yours truly, Edward P. Remski 43 F.lm Street Hicksville, N. Y. 11801 EDITOR'S NOTE. ..Some reader should know.

#### OPERATING INSTRUCTIONS FOR AERIOLA GRAND

Numbers Correspond with Diagram

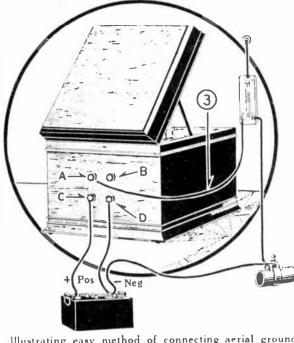
1. First, refer to accompanying sketch, then erect antenna and place protective device in position as described on page 56.

2. Place Aeriola Grand on table or stand and connect wire as shown herewith. The two wires connecting the Aeriola Grand to the protecting device should be separated by at least one foot. No. 18 rubber-covered wire may be used for connections. The rubber covering on each end should be carefully removed and the wire scraped with a knife until bright. The clean bare wire should then be placed under the terminal caps and these caps screwed tightly into position.

3. The wire from terminal R of the protective device connecting to terminal A of the Aeriola Grand should be removed and connected to terminal B when signals below 350 meters are desired.

4. Press the black button of the snap switch, thus disconnecting the battery.

Text numbers correspond to above diagram.



Illustrating easy method of connecting aerial ground and filament storage battery

No. 5. Insert Model WR-21-D Aeriotron detector tube into the right hand front socket so that stamped trade mark is facing toward front of cabinet. Tube should be pressed firmly into socket.

No. 6. Insert three Model WR-21-A Aeriotron amplifier tubes in the remaining front sockets.

lo. 7. Insert four Model WB-800 ballast tubes in rear sockets. Be sure that pins register with holes and press firmly into place.

No. 8. Press red button of snap switch (4) clear down. All Aeriotron silaments should now be lighted.

No. 9. Slowly rotate tuning handle over the scale until sound is loudest.

No. 10. This plug should be used to replace the front left-hand tube if the broadcasting station is so near as to make the sound abnormally loud.

Caution: Always press black button of snap switch (4) when not using instrument, as this conserves battery energy.

1922

#### **AERIOTRON VACUUM TUBES**

(Westinghouse Products)

#### Aeriotron Detector Tube. Model WR-21-D, for Use with Aeriola Grand Receiver

This tube is designed especially for use with the Aeriola Grand Receiver and when so used gives excellent receiving results. It is provided with a special base which prevents its being used in equipment with which it will not properly function. Aeriotron WR-21-D has a green tip marking and is designed for use as the detector tube in Aeriola Grands, and should be placed in the right-hand front receptacle.

The filament current for this tube is approximately .8 of an ampere and the drop across the filament is about 4 volts. A six volt storage battery with a rheostat or ballast tube control will, therefore, furnish satisfactory power

for heating the filament.

Aeriotron Detector Renewal Tube, Model WR-21-D for Aeriola Grand Receiver . . . \$7.50 Dimensions:  $4\frac{1}{2}$  in. x  $1\frac{1}{4}$  in.

Weights: Net, 4 oz.; Shipping, 1 lb.

#### Aeriotron Amplifier Tube Model WR-21-A, for Use with Aeriola Grand Receiver

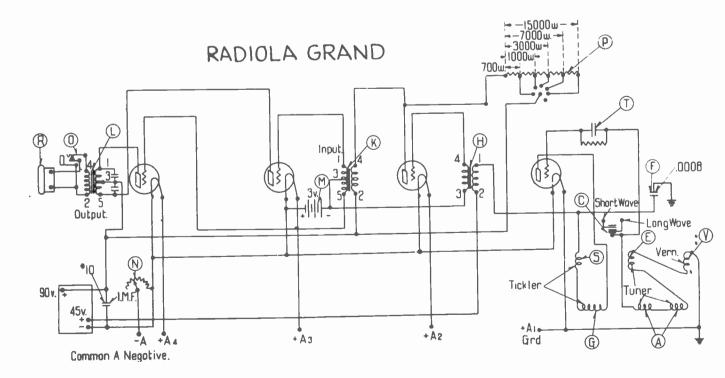
This is a specially designed and carefully selected tube for use in the amplifying circuits of the Aeriola Grand and may be placed in any of the three front receptacles from left to

The filament current for this tube is approximately .8 of an ampere and the drop across the filament is about 4 volts. A six volt storage battery with a rheostat or ballast tube control will, therefore, furnish satisfactory power for heating the filament to its normal operating temperature.

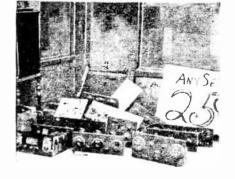
The plate impedance of this tube is from 60,000 to 80,000 ohms, making it adaptable to resistance coupled amplification.

WR-21-A Amplifier Tube for Aeriola Grand Receiver .....

Dimensions:  $4\frac{1}{2}$  in. x  $1\frac{1}{4}$  in. Weights: Net, 4 oz.; Shipping, 1 lb. Complete Aeriola Grand Broadcasting Receiver, Model RG, and Mahogany Stand, 150-550 meters, with six volt Storage Battery, Model 6HR-9, Rectigon Battery Charger (6 ampere size), Receiving Antenna Equipment and Full Instructions..... Aeriola Grand Broadcasting Receiver, as above, less Stand, Storage Battery, Charger and Receiving Antenna Equipment..... With Stand ..... Weights: Net 50 lbs.; Shipping 70 lbs., with Stand 140 lbs.



Cortlandt Street. New York City 1932





#### LIEUT. BETTINI'S NEW MICRO-GRAPHOPHONE.

Any reader of the daily papers must have noticed within the last few months frequent mention of a new instrument of the phonograph type, invented by Lieut. Gianni Bettini, an officer in the Italian navy,

at present residing in this country. This gentleman conceived the idea of constructing a phonograph so as to be exceedingly sensitive to the different qualities of the tones of the human voice, and to reproduce those tones with the original qualities, so that the voice of the speaker could be easily recognized; and furthermore to produce uniformly good records without regard to the quality of the speaker's voice, also to secure a volume of sound which would compare favorably with that of a voice engaged in ordinary conversation, so that the words could be heard and understood without the necessity of employing stethoscopic ear tubes.

Every student of acoustics knows that vibrating membranes, strings, rods, columns of air, and thin plates of various kinds have active points and neutral points, and Lieut. Bettini has taken advantage of this fact in the construction of his instrument. He connects his recording stylus with the diaphragm at various points, to insure contact with one or more of the actively vibrating parts or ventres of the diaphragm, thus avoiding the points of rest or nodes where little or no vibration occurs.

### Scientific American.

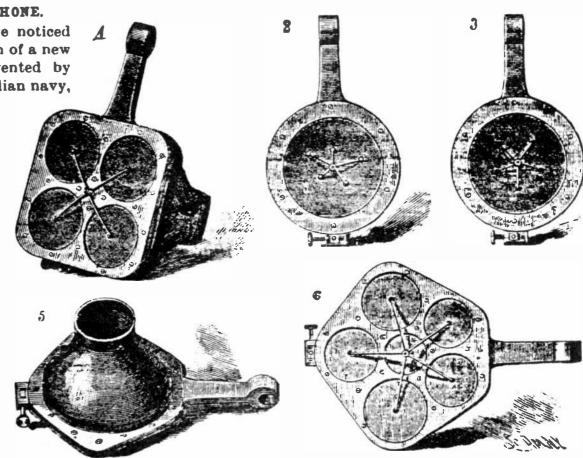
#### [APRIL 26, 1890.

This instrument, which has been named the micro-graphophone, is shown in perspective in the larger engraving, together with some of the accessories. The instrument proper is mounted upon the top of a case which contains an electric motor. In the frame of the instrument is journaled a shaft, which is screw-threaded upon one end and passes through a shear nut. Upon this shaft is mounted a metallic cylinder for receiving the record cylinder. The shaft is also provided with a pulley which receives motion from the electric motor in the base, through the medium of the belt. Upon a standard at the back of the record cylinder is mounted an angled arm which carries two sets of diaphragms, one for producing the record, the other for the reproduction of the speech. In the instrument as represented, the reproducing apparatus is in the position of use. The standard in front of the record cylinder is provided with vertical and lateral adjustments for causing the stylus of the reproducing apparatus to register with the record on the cylinder. The diaphragm cell, which is swung back out of the way, is the one employed for produc-

ing the record, and when so used it is swung into the position now occupied by the reproducing apparatus, and the flexible tube shown lying upon the table is used in connection with the cell.

At the side of the motor casing which supports the micro-graphophone are shown two record cylinders and a tool for turning off these cylinders. This tool takes the place of the adjusting apparatus on the standard at the front of the machine. In Figs. 1 to 5, inclusive, are shown various forms of diaphragm cells and diaphragus employed in connection with the rotating and adjusting apparatus of this instrument.

To the diaphragm, shown in Fig. 2, is attached a spider, having arms of different lengths attached to the vibrating parts of the diaphragm. These arms are inclined outwardly toward a point opposite, the center of the diaphragm, at which point they are all secured to the recording stylus. This construction, as the record shows, has considerable advantage over that in



VARIOUS DIAPHRAGMS USED IN BETTINI'S MICRO-GRAPHOPHONE.

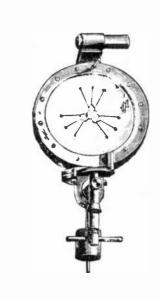
which the stylus is attached directly to the center of the diaphragm.

In Fig. 3 is shown a reproducing diaphragm in the simplest form. In this case a spider having equal arms is attached to the under surface of the diaphragm, with its arms arranged on a circle concentric with that of the periphery of the diaphragm. These arms are inclined outwardly, and joined at the center to the reproducing stylus. The effect of this construction is to secure a greater amplitude of vibration in the diaphragm, and to reproduce faithfully all of the overtones which are so necessary to reproduce the exact quality or timbre of the sounds originally nttered into the recording apparatus.

A similar idea in a modified form is shown in Figs. 1 and 5, in which a number of diaphragus are used in the reproducing apparatus. These diaphragms are of different sizes, or of different tension, or both, so that they will respond to a greater range of sounds. The small diaphragms are connected by arms to a central reproducing stylus. Each diaphragin has its particular range of sounds, while all are more or less affected by the same sound. As a consequence of this arrangement, Lieut. Bettini is enabled to produce a great volume of sound without destroying its timbre or peculiar quality. This instrument can be heard distinctly and understood in any part of an ordinary rocm. The instrument is equally susceptible to musical sounds, and singing, instrumental music, and whistling are brought out in a very satisfactory manner.

These sketches were made at Lieut. Gianni Bettini's laboratory at 110 Fifth Avenue, New York City.

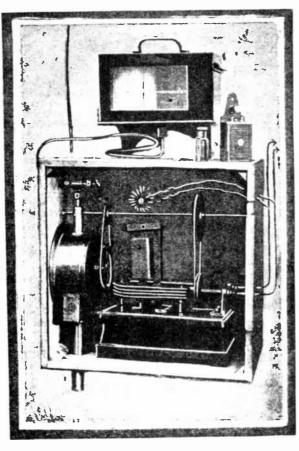
#### BETTINI



### Electric Light from Spigot

COLARDEAU, former professor of Physics at the Lycée Roulin and a scientist of European reputation, has just explained to the Academie des Sciences of Paris how electric light may be obtained from the kitchen tap. By a simple calculation, the eminent physicist showed how an ordinary water tap turned to allow the flow of one quart of water per second would furnish the equivalent of one horse power, provided the source of the water supply was situated at 75 meters above the level of the tap. By mounting a turbine on the tap and connecting it with a dynamo, sufficient current is obtained to light one 500 candlepower lamp and 20 other lamps varying from 10 to 50 candle-power. Every time the tap was turned on for domestic uses, the miniature electric station would work and accumulate in a storage battery the otherwise wasted energy of water. The professor has installed such a system in his own home. This is the water tap power plant which has set the scientific world talking about the utilization of wasted energy.

In his house he uses no other installation, and it never gives out and never costs him anything. In the country places M. Colardeau would use the wind to pump water up to the required



heights, and so transfer the wind energy into water energy, which would be transformed into electric energy.

"When we've done that," he concluded, "we needn't any longer worry about the exhaustion of our coal stocks."

Wind power was wasted wholesale, but even more culpable was the waste of water-power within one's own house.

The Accompanying Photograph Showa the Actual Spigot Power Plant Employed by the French Scientist, M. Colardeau. Every Time the Spigot Is Operated, the Water Discharges Thru the Water Motor Shown at the Extreme Left of the Cabinet, Which Motor Is Geared by Belts and Shafts to the Magneto Dynamo Shown in the Lower Center. The Energy from the Small Dynamo Passes into a Storage Battery Where It Is Accumulated, and It Is Said that M. Colardeau Has Supplied His Own Electric Lights from This Source Continuously Without Having Resource to the Central Lighting Station.

"The force of every kitchen and bathroom tap is wasted," he declared, and he put forward a scheme which he believes can be made practicable to utilize the force from the water that runs from every kitchen tap, which Paris derives from a reservoir 200 feet above the city.

Science and Invention for May, 1921

It was in 1932 that he estab-

lished his laboratory under the

name of McMurdo Silver, Inc.

By 1933, the first Masterpiece

was produced with fifteen tubes and

two brass-plated chassies. In No-

vember of 1933, the chrome-plated

Masterpiece II was advertised as

the official general-coverage re-

ceiver for the second Byrd Antartic Expedition. The Masterpiece

III was introduced in 1934, followed

by the IV in 1935, the V in 1936,

and finally, the Masterpiece VI

in 1937. From 1932 to 1938, se-

veral lesser sets were produced,

but none were so grand as the

collecting Colt revolvers. He had

one of the finest collections in the

McMurdo Silver's hobby was

In November of 1938, the com-

pany folded and the January 1939

issue of the Scott News carried

an enclosed letter under the

signature of E. H. Scott announc-

ing the purchase of McMurdo Sil-

During World War II, he was

employed by Lear Aviation, After

the war, he again formed his own

company, this time in Hartford,

Masterpiece series.

world at one time.

ver, Inc.

Connecticut.

BY J. W. F. PUETT

Starting in the twenties and continuing through the early forties, many an old-time radio man can remember those exciting articles written by McMurdo Silver. Today, a few radio collectors are fortunate enough to have a gleaming chrome Masterpiece tucked away in their hoard of early wireless and home entertainment antiquity. Even now, there are still a few of those kings of the air awaiting their fate in the dusty attics and cellars of old homes. But, what of the man who designed and manufactured these classic Masterpieces that once graced the formal living room of the affluent few who would be satisfied with nothing short of the very best? Who was this wellknown electronic trailblazer whose articles were published in such leading periodicals as Radio News, Short Wave Craft, Q. S. T., Radio Craft and others too numerous to mention? Although detailed information on McMurdo Silver is somewhat obscure; herewith, a short biographical sketch on this brilliant radio engineer:

McMurdo Silver was born March 15, 1903, in Geneva, New York. He was the son of John Archer Silver, a professor of Ancient History at Hobart College.

His interest in radio started at the age of eight from the story of the Titanic disaster. By 1912, he could be found winding coils spools and making "spark coils" and by 1913, he was cooperator of amateur station 8VM. In 1916 he moved to New York City where he attended school.

His first employment was in a Wall Street brokerage house, but, by 1919, he was working in the research laboratory Westinghouse at Bloomfield, New Jersey. There he assisted in the development of one of the smallest vacuum tubes manufactured at that time which measured one-half inch long by three-eights inch in dia-

Leaving Westinghouse in 1920, at the age of seventeen, he took a night engineering course in New York. From that time until 1922, he was employed by Haynes-Griffin Radio Service where he developed one of the first practical superhetrodyne radio kits. (The Haynes Cockaday and Radio Broadcast Supers).

In 1924, McMurdo Silver moved to Chicago and started Silver Marshall, Inc., which became Hallicrafters after he left the company.

1933 ad

#### Radio designed especially for ADMIRAL BYRD actually brings in the entire

World!



Tuning from 10 meters to 570 meters-all with one single dial, Mc-Murdo Silver's Masterpiece II, will bring

you enjoyable, loud speaker reception of music and voice from points 12,500 miles away in any direction. This super instrument was designed especially for the Byrd Antarctic Expedition from specifications developed by McMurdo Silver, with the engineering department of a great eastern University acting as the admiral's radio advisors. Each one of the duplicates now being made available for private home use is laboratory built and is sold with an unconditional guarantee of complete satisfaction or money instantly refunded. Free Book completely describes this receiver and illustrates the custom-built consoles made especially for it. Write for

M-MURDO SILVER, Inc 1731 Belmont Ave., Chicago, U.S.A.



J. W. F. Puett publishes a quarterly newsletter for collectors, who are interested in classic radios. He welcomes all correspondence about classics. J. W. F. Puett, 3008 Abston Drive, Mesquite, Texas 75149.

### McMurdo Silver

McMurdo Silver allegedly committed suicide in 1948. All that remains today is a few of his beautiful classic radios and his numerous articles which were published throughout the golden age of radio.

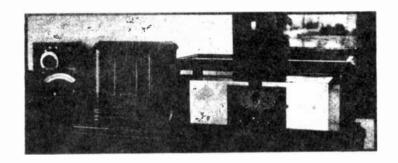




rule absent 3 w.

1931

#### SILVER MARSHALL RADIO 1930 PLAYS FOR 8760 HOURS . . . AND STILL GOING!



Aviation hasn't been setting the only endurance records in Chicago this summer—for on July 10th at 5 P.M. a Silver-Marshall Model 30A chassis had played continuously, twenty-four hours a day, for one year-8760 hours! And it's still going: not a single part being replaced in the whole year with the exception of two tubes.

The set was originally started not for a record but to prove a power-pack argument between M. C. Lanmon, the testing chief, and McMurdo Silver, President.

The receiver is on exhibition at Silver-Marshall's main office, 6401 West 65th Street, Chicago.

1935 ad

1931

### 1934 ad Jou can really hear the entire Borld with custom-built

### MASTERPIECE

The choice of experts and critical fans everywhere for diffi-cult reception feats. (See trial offer below)

MASTERPIECE III. dill

MANTERPIECE III. still more powerful, more sensitive than Masterpiece II, brings the Hilling dally surprises in the form of clear, enjoyable recention under favorable conditions from forekin and domestic stations you never dreamed of hearing. Range 13:570 meters. Read what Bling Crosby, Richard Arlen and Derammung Samuel Endurgers are about Marterpiece III.

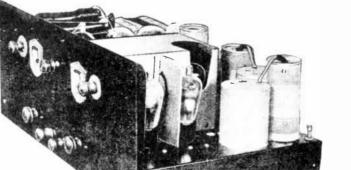


"Bling Crosby and Dick Arlen feet you have engineered most perfect sets yet. Prellininary tests brought in 102 broadcast stations, also 3 in Japan. Short-wave side produced France, Germany, Buenos Aires, England, Honoluiu, Russia, and Canadian. Mexican and American short-wave stations, which is phenomenal receiving on this coast. Crosby and Arlen early wait to get going Monday on their tuning contest. For sensitivity, case of operation, noise suppression and selectivity sets are unsurpassed ""John Feere Miles Paramount contest. For sensitivity, ease of operation, noise suppression and selectivity, sets are unsurpassed."—John Feere Miles, Paramount

10-DAY TRIAL You can prove Masterpleec 111 to yourself without risking a cent. 10 Your money back instantly . . . it

### MCMURDO SILVER, INC.

3353 N. Paulina Street



McMurdo Silver Masterpiece V, 1937

Silver-Marshall 726-SW short-wave receiver



Explore New Frontiers from YOUR EASY CHAIR

ALL-WAVE WORLD-WIDE The "Rolls Royce" of RADIO

Over the highest mountains . . . across the seven seas . . . the world's linest and most interesting radio entertainment can be yours to enjoy. Turn the dial of your Silver MASTERPIECE IV, and bring in programs the world over with life-like fidelity and thrilling clarity unapproached by the conventional radio set. Custom-designed, custom-built and tested in the McMurdo Silver laboratories, containing no less than 25 entirely new engineering advancements, the MASTERPH CE IV will prove its superiority in comparison with any all-wave receiver at any price.

Limitations of distance, difficulties of reproduction, fading, seldom exist for the owner of a MASTERPILCE IV. Without obligation, the coupon will bring you the completely descriptive "Blue Book," proofs of performance, details of 10-DAY TRIAL Offer and

5 YEAR GUARANTEL.





TRADE NAME: Silverset Radio Receiver.
TYPE: Two stages of tuned radio frequency detector and two stages of audio frequency amplification.
TUBES: Five.
BATTERIES: Not furnished.
CONTROLS: Thrus.
AERIAL: Indeor, sutdeor.
PRICE: \$125 without accommerce.
MANUFACTURER'S NAME: Silverset Radio Co.



TRADE NAME: "Sleeper Monotrol."
MODEL: 54.
TYPE: Grimes inverse duplex circuit.
TUBES: Four.
BATTERIES: Storage or dry cells.
CONTROLS: One.
AERIAL: Indoor, outdoor or loop.
PRICE: \$130.00 without accessories.
MANUFACTURER'S NAME: Sleeper Radio
Corn.



TRADE NAME: "Somerset Stratford."

MODEL: 4-A.

TYPE: One stage of tuned radio frequency amplification, detector and two stages of audio frequency amplification.

TUBES: Four.

BATTERIES: None furnished; may be self-contained in cabinet.

CONTROLS: Two.

AERIAL: Indoor or outdoor.

PRICE: \$65.00 without accessories.

MANUFACTURER'S NAME: National Airphone Corp.

TRADE NAME: "Somerset Shelbourne."

MODEL: 4-B.

TYPE: One-stage tuned radio frequency amplification, detector and two stages of audio.

TÜBES: Four.

BATTERIES: Full-size 6-volt storage "A" battery: can be self-contained in cabinet.

CONTROLS: One.

AERIAL: Indoor or outdoor.

PRICE: \$85.00 without accessories.

MANUFACTURER'S NAME: National Airphone Corp.



TRADE NAME: "Somerset Standish." TRADE NAME: "Somerset Standish.

MODEL: 4-C.

TYPE: One-stage tuned radio frequency amphilication, detector and two stages of audio.

TUBES: Four.

BATTERIES: Full-size 6-volt storage "A"
battery: can be self-contained in cabinet.

CONTROLS: One.

ARRIAL: Outdoor or indoor.

FRICE: \$150.00 including built in loud speaker.

MANUFACTURER'S NAME: National Airphone Corp.



TRADE NAME: "Sonoradio."

MODEL: 241, built-in with phonograph.

TYPE: Two radio, detector, and two audio.

TUBES: Five 199 type.

BATTERIES: "A"-3 dry cells, "B"-90 volts.

CONTROLS: Two.

AERIAL: Outdoor or indoor.

PRICE: \$475.00 complete with phonograph, but without radio accessories.

MANUFACTURER'S NAME: Sonora Phonograph Company, Inc.





TRADE NAME: "Sonoradio."

MODEL: 242, built-in phonograph.

TYPE: Neutrodyne, reflex radio frequency.

TUBES: Three UV-199.

BATTERIES: "A"-3 dry cells, "B"-90 volts.

CONTROLS: Two.

AERIAL: Inside or outside.

PRICE: \$235.00 without accessories.

MANUFACTURER'S NAME: Sonora Phonograph Company, Inc.



TRADE NAME: "Splitdorf."

MODEL: R-100.

TYPE: Tuned radio frequency.

TUBES: Five.

BATTERIES: None Furnished.

CONTROLS: Three.

AERIAL: Inside or outside.

PRICE: \$150.00 without accessories.

MANUFACTURER'S NAME: Splitdorf Electrical Company.



TRADE NAME: "Splitdorf."
MODEL: R-102.
TYPE: Tuned radio frequency with built-in TYPE: Tuned radio frequency with busins loud speaker.
TUBES: Five.
BATTERIES: None furnished.
CONTROLS: Three.
AERIAL: Inside or outside.
PRICE: \$235.00 without accessories.
MANUFACTURER'S NAME: Splitdorf Electrical Company

TRADE NAME: "Standardyne Receiver" TYPE: Two tunea radio, detector and two audio.
TUBES: Five.
BATTERIES: Dry cell or storage.
CONTROLS: Three.
AERIAL: Outdoor or indoor.
PRICE: \$60.00 without accessories.
MANUFACTURER'S NAME: Standard Radio



TRADE NAME: Stromberg Carlson.
TYPE: Hazeltine neutrodyne.
MODEL: No. 1A.
TUBES: Five.
BATTERIES: Not furnished.
CONTROLS: Three.
AERIAL: Indoor, outdoor.
PRICE: \$180 with headset; no other accessories. MANUFACTURER'S NAME: Stromberg-Carlson Mfg. Co.



TRADE NAME: "Summerset Mars."

MODEL: 5-A.

TYPE: Two stages of tuned audio frequency amplification, detector and two stages of audio. TUBES: Five.

BATTERIES: 6-volt "A" storage can be self-contained in cabinet; "B," 60 to 90 volts, can be self-contained in cabinet.

CONTROLS: Three.

AERIAL: Outdoor or indoor.

PRICE: \$75.00 without accessories.

MANUFACTURER'S NAME: National Airphone Corp.



Radio News for March, 1925

**BACK ISSUES** 

THE HORN SPEAKER NEWSPAPER

All 10 back issues for 1973 \$5.00

January '72 ......25¢ ea.

March '72 .....\$1.00 ea.

April '72 .....\$1.50 ea. May '72 .....50¢ ea. June '72 ......50¢ ea.

August 172 ......50¢ ea. 

October 172 ......75¢ ea. December 172 ......25¢ ea.

All 20 back issues for 1972 and 1973,

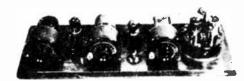
Any issue from Jan. '73 to now. .50¢ ea.

while they last...\$10.00.

**ORDER NOW!** 

#### **NEW 1973 VINTAGE RADIO**

Enthusiastic readers bought out our first edition. Now you can send for the fascinating new edition of this pictorial history of wireless and radio, 1887-1929. It's the collector's bible, with 263 pages and over 1,000 illustrations. Available in handbook or deluxe hard cover.



#### McMAHON'S 1921-1932 GUIDE

Be an instant expert. Lists 9,000 radio models by maker and year introduced, with original price, description and circuit type. A must for every radio buff or antique collector.

Vintage Radio, handbook \$4.95 6.95 Vintage Radio, hard cover McMahon's 1921-32 Radio Guide 3.95



**New and Revised Edition** 

by Roland Gelatt

Ever since 1877 when Thomas Edison invented a curious tin-foil apparatus to reproduce sound, the phonograph has provided entertainment and the delights of music for millions of

Roland Gelatt's history of this truly fabulous invention is a classic work in its field, and this revised edition covers new developments in stereo, recordings, and tapes.

☐ Enclosed is \$\_

PLEASE PRINT

Announcing: New limited reprint of S. Gernshack's 1927

Announcing: New limited reprin of information on the telegraph & many illus. of early tele-graph equipment. Reprints of KAINO ENCYCLOPEUIA, a priceless record of old-time wireless and radio. Choice of hard-cover or handbook. 175 pages. 1,000 subjects.

Special

TELEGRAPH BOOK, "History, Theory & Practice of the Electric Telegraph." The

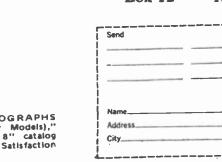
orig. copy of this book was-first printed in 1660 by George Prescott, Supt. of Electric Te-legraph lines. Over 500 pps.

this book \$7.50 ea., ppd.

Radio Encyclopedia, hard oner The Horn Speaker Book Sales

Kleberg, Texas 75145 **Box 12** 

EDISON PHONOGRAPHS 1912-13 (Cylinder Models)," illustrated 5 x 8" catalog reprint, \$3,00 ppd. Satisfaction





Bob Edwards of Deale, Mary-

Bob is searching for information to restore a Joseph W. Jones six-tube battery operated radio that he managed to "win" at an auction. He believes it to be the J-175 but he is not sure. He needs help to determine resistor values

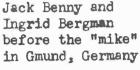
land has been buying and repairing old radios since 1931. But he qualifies as a collector rather than a dealer. "I've only sold one (old) radio and that was to a col-

lector," he stated.

for proper voltage, etc.



Jack Benny and Ingrid Bergman before the "mike"





Photos by U. S. Army Signal Corps

Al Jolson entertaining soldiers at a hospital in Palermo, Sicily

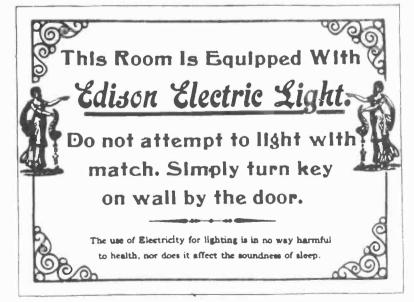
> Irving Berlin plays for WACs in Hollandia, Dutch New Guinea







Bob Edwards of Deale, Maryland stands at the controls of his Radiola Senior. He built the power supply, which is used to power the receiver. Indeed, a good looking Western Electric Horn Speaker.



Now you can have an exact 1890 EDISON ELECTRIC LIGHT PLAQUE REPLICA as used when electric lights were first installed anywhere. . .You can MOUNT and DISPLAY this PLAQUE on any SURFACE because of its ADHESIVE BACK. . .just remove paper from back and mount as desired. . All design and lettering are ENGRAVED and seated in black. . A special process added to the GOLD-IN-COLOR Aluminum plate makes it impossible to CORRODE or OXIDIZE. . . Unlimited uses and ideas in the Antique field, makes an EYE-CATCHING DISPLAY, HUMOROUS, but serious. . . A fine gift for any occasion. . . ORDER NOW, ONLY \$4.95 Postpaid. . . MIDCO HS10 BOX 15370, LONG BEACH, CA 90815.

### on the Air

Many people, who are not collectors, want The Horn Speaker to price items for sale. The policy of the newspaper is not to establish prices. We can give only a range of prices and they are wide.

Needless to say, sellers want high prices, buyers want low prices. The Horn Speaker feels that pricing for the benefit of the collector should be free of any influence of any kind of authority. Fortunately, the clubs, associations, societies, etc. have not established prices.

At the Foothill College Electronic Museum in Los Altos Hills, California members of the Antique Wireless Association will meet on April 27, 1974 for exhibits, a swap and sale session, old time receiver contest and talks.

#### EASY GOST CHART FOR CLASSIFIED ADS

No.	Ome	Two		TwoIve
Words	Laune	Laures	Ladnes	Insuce
1-25	1.35	2.45	3.45	12.75
26-80	1.70	2.90	4.15	15.30
81-85	1.95	3.40	4.80	17.80
36-40	2.25	8.90	5.50	26.35
41-45	2.50	4.40	6.15	22.95
46-50	2.75	4.80	6.85	25.45
51-55	3.05	5.80	7.55	28.00
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61-65	3.65	6.30	8.95	83.05
86-70	3.90	6.75	9.65	35.60
71.75	4.15	7.25	10.30	38.20
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86-90	5.00	8.70	12.35	45.80
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101-110	6.05	10.65	15.15	56.00
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Photo ads \$2.00 extra.

## MART

#### MISC.

WILL REPAIR, restore, refinish, renew or rebuild your old radio. Buy, sell or trade tubes, parts and radios. Bob Lucas, 9014 Mahoning, Houston TX 77036

PROFESSIONAL CW operators, retired or active, commercial, Military, Gov't, police, etc., invited to join Society of Wireless Pioneers, W7GAQ/6, Box 530, Santa Rosa, CA 95402.

PHONOGRAPH KESTORING, reproducer repairing a specialty. Alan Cotble, 826-9184 for Dallas area residents.

#### FOR SALE OR TRADE

FOR SALE: Large number of crystal sets in like new condition. (Most have never been used) Several hundred good early vacuum tubes including WD-11, UV 200, UV 201. Also many old broadcast receivers, speakers, etc. Crystal sets are the "WACCO" Gem, W. A. Cheever Co., Providence, R. I., \$35. each. The WD-11's are black base with good emission and the other two types are clear glass brass base 1 amp. filaments and have never been used and are in original cartons. Any of the above tubes are \$25. apiece or in lots of 10 for \$225. Hans R. Hermann, 1253 Main St., E. Hartford, Conn. 06108.



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ANTIQUE TELEVISIONS: 3" Pilot, 5" Anders, 7" Fallicraftors, 7" Crosley, 7" Philco, 7" Motorola, 7" Admiral, 7" Transvision, many more. Call Charles Seidel, (805) 962 3620, Santa Barbara CA.

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FOR SALE: Radiola 18, excellent \$40. Scott Phantom, no case, excellent operating condition \$50.00. Grebe Syncrophase \$75. WANTED: Utah enclosed speakers. Bill Wiley, 282 Highland, Wadsworth, Ohio 44281.

FOR SAIE: 6 old Radios; 2 horns; Western Elect. Amplifier; Cobra arm and turntable & misc. Bid. Charles Solgas, 821 Duchow Way, Folsom CA 95630.

FOR SAIE: 7 page illustrated list of horn phonographs, grind organs, toys, some radios, etc. \$2.00 refundible with order. S. Leonard, 60 E 12th St. Apt. 6E, New York. N. Y. 10003

REPLACE BULKY BATTERIES and noisy eliminators with solid state battery Radio Power converter. Send SASE - your needs. Gary Fischer, 6378 Pierce St., N. E., Fridley, Minn. 55432.

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RESTORE, REPAIR, buy, sell, trade antique radios, phonos, etc., 9 miles from N. Y. City. Ronald F. Hill, 386 Roosevelt Ave., Lyndhurst, N. J. 07071.

FOR SALE: All kinds of radios. parts itc. No list, if through look me up. Pat Cutini, 969 Genesee St. Buffalo, N. Y. Open Thursday, Friday, and Saturday 11 AM to 5 PM.

FOR SALE: Rubber stamp with your name and address plus AK Radio and speaker \$3.00 pp. James Fred, P. O. 42, Rossville IN. 46065.

1921-1931 schematics and service data where available \$2.00. Cecil Bounds, Pine Springs Rte., Carlsbad, N. M.

WANT ATWATER KENTS ANY MODEL FROM 7 THROUGH 42: CROSLEYS ANY BATTERY MODEL AND GEMBOX AND SIMULAR ELECTRICS: TTWATER KENT SPEAKERS: ANY TYPE HORN SPEAKERS: WD11, O1A, 201A, ETC. TUBES. DESCRIBE & PRICE. YOUNG, 11 WILLOW COURT, TOTOWA, N. J. 07512.

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WANTED: RADIO NEWS 1927-28 AND PRIOR TO 1923. CQ 1945-46. "RADIO" 1927-28, 1930-33 & PRIOR TO 1923. R. McNeill, Box 472, Yorkton, Sask., CANADA, S3N 2W4.

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WANTED TO BUY: Ghirardi Radio Trouble Shooters Handbook, need several copies. Also need early date RCA, Sylvania etc. Tube manuels. State price and condition in first correspondance. Wm. Poston, 3212 Peachtree Ct., Bakersfield CA 93301.

WANTED: "Popular Radio" magazines for the year of 1922 and 1923; "Radio News<sup>n</sup> magazine for 1925 and earlier years: RCA Horn Speaker Model UZ1320 and UZ1325: Wiring B/P for Zenith 4R. Albert Warren, Box 279, Church St., Waverly PA 18471.

WANTED: Allen D. Cardwell Co., Variocouplers, Radio Receivers, Headsets, Transformers, Microphones. Also old Cardwell Military Equipment, Telegraph Keys, Sounders, National Company one tube radios. Cardwell Condenser Corp;, 80 E. Montauk Highway, Lindenhunst LI., N. Y. 11757.

WANTED: AK instruction books, Volumes 2 and 4, I'm also interested in other Manuals and literature. Can supply copys of Schematics from Rider 1 and a few others for 50¢ each plus large SASE. Alvin Heckard, Rd. 1 Box 88, Lewistown PA 17044.

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WANTED: Early Radio/Wireless Sets, Tubes, Book, Magazines and Associated items. Western Electric Telephone and Audio Equipment. Will Nangle, 761 No. 29th St., Milwaukee, Wisc. 53208.

WANTED: Atwater Kent Breadboards, "M" and "G" horns, phono pickup, All original literature. Music Master receivers, horns, V and Vlll speakers, headphones, literature. Harry R. Katz, 415 So. Tenth St., Phila. PA 19147.

WANTED: Power Transformer part #D-53X174-F, for Corondo Radio, power transformer part #25B15430, for Motorola Radio. C. Elmer Nelson, 824 S. Pleasant St., Princeton, Ill. 61356.

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WANTED: Transducer base for Atwater Kent Type H horn speaker. Ronald Kramer, 199 E. St. #215, Lake Oswego, Oregon 97034.

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