

The

ANTIQUE



P.O. Box 12 Kleberg, Texas 75145

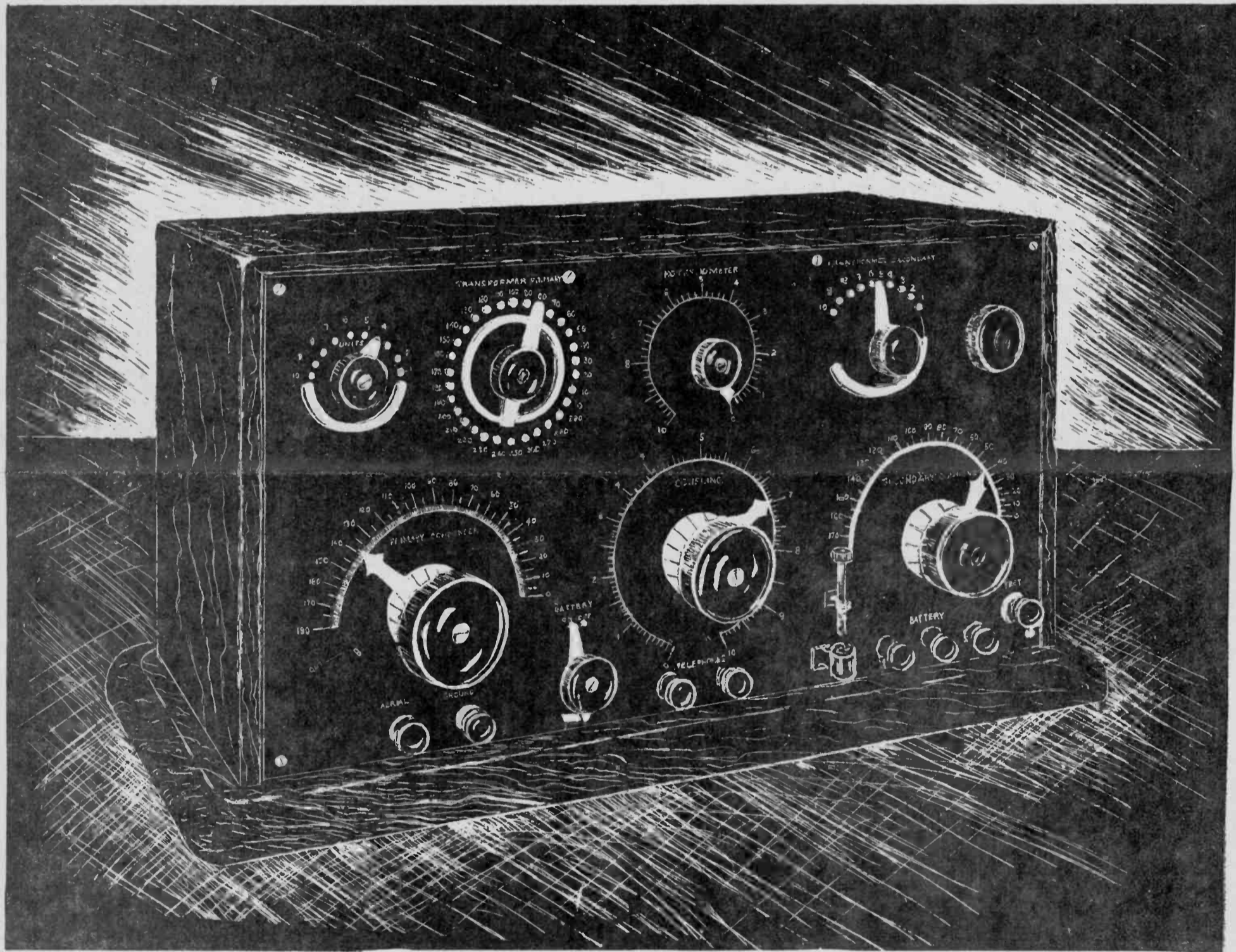
No. 31

Feb. '72

Price \$3.00 yearly Single issue 50¢

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AND PHONOGRAPH NEWS

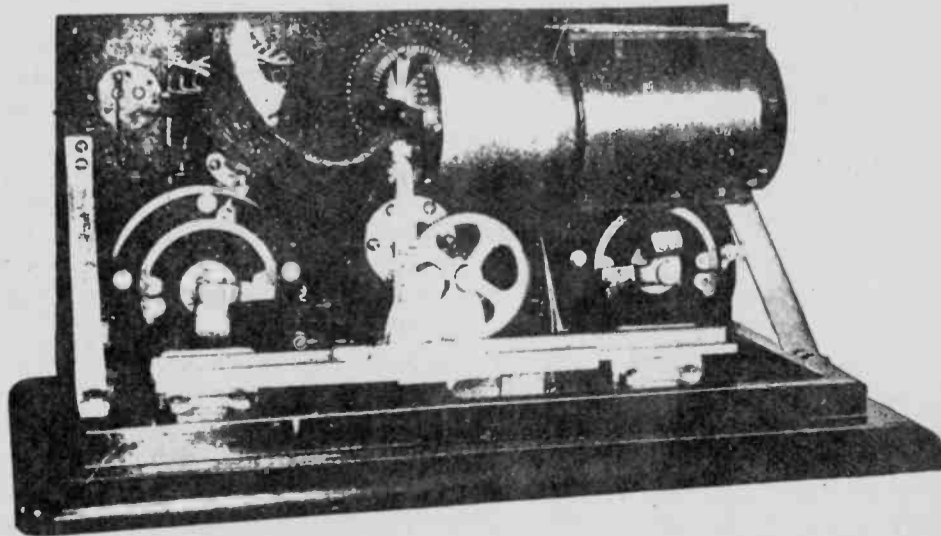


MARCONI 106 ...

The early wireless telegraphist was introduced to quality workmanship that is rarely discovered by today's radio collector. The Marconi 106 was described by Elmer Bucher, who wrote an early Wireless Press book called Practical Wireless Telegraphy, as a receiving set of particular excellence combining mechanical and electrical features of merit.

The following is from his book:

This set is of the panel type, the necessary controlling switches being mounted on the front of the board, the coupler, variable condensers, potentiometer, etc., being mounted on the rear. The coupling between the primary and secondary windings is varied by means of a special rack and pinion adjustment which is in turn controlled by a knob on the



Rear View Type 106 Receiving Tuner.

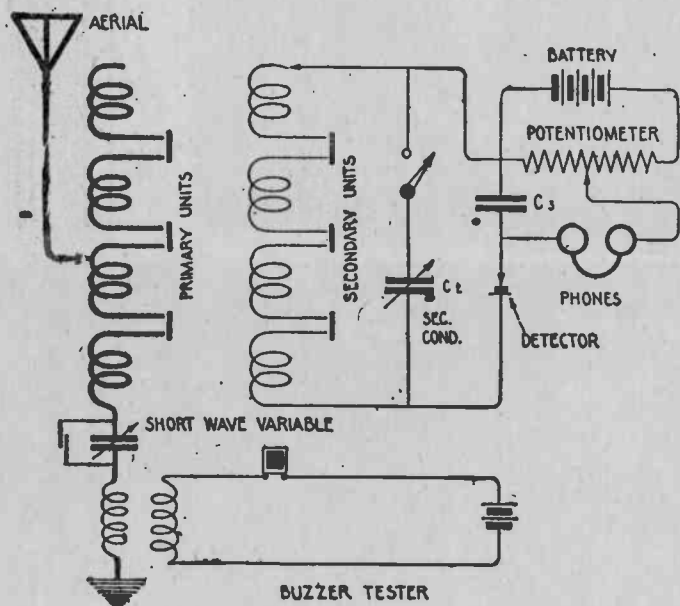
front of the panel with a scale marked from zero to 10.

The inductance of the primary winding is changed by means of two multipoint switches, one of which operating in conjunction with a barrel switch disconnects the unused portions of the primary winding for any particular adjustment of wave length. That is, the primary winding is divided into four groups which are cut into the circuit as the wave length is progressively increased. The connections to the separate aerial tuning inductance connected in series with the antenna system are included in the "tens" switch of the primary winding. The "unit" switch controls 10 single turns of the primary winding permitting any number of turns from one to maximum to be included in the circuit.

The aerial circuit includes a short wave variable condenser which in the 180° position short circuits itself automatically by means of special contacts fitted to the movable and stationary plates. The secondary coil divided into 10 groups is fitted with an end-turn switch which splits the winding into three complete groups. The secondary winding is shunted by a variable condenser which in the zero position is completely disconnected from the circuit, thereby cutting off the capacity effect between the opposite plates (of the variable condenser) in the so-called zero position of capacity.

A special wire wound potentiometer is supplied, having a resistance of about 450 ohms, the value of which is adjusted by a rotary multipoint switch.

The receiving detector, placed in a vertical position to the front of the panel, consists of a contact point with spring pressure mounted on a universal joint which may be placed in contact with the sensitive spot on one of several crystals mounted in a cup directly underneath.



Fundamental Circuit Diagram 106 Tuner.

A fundamental diagram of the type 106 tuner is shown. The part of this diagram to be given particular attention is the connection of the potentiometer, the head telephones and the fixed condenser C-3, and the grouping of the primary and secondary turns. The buzzer excitation system shown will be described in detail.

The reader should note that the 106 tuner is constructed so that only the used turns of the primary and secondary windings are in direct inductive relation, that is, the unused turns of either winding do not overlap and consequently when the primary and secondary turns of either winding do not overlap and consequently when the primary and secondary are set at low values of inductance, care must be taken to have these two windings in the correct inductive relation. For instance, by a little consideration, it will be evident that if the secondary winding is placed too far inside the primary coil the coupling is decreased just as it is when the secondary winding is drawn out of the coil.

The general instructions for the adjustment of the inductive receiving tuner are thoroughly applicable to the type 106 tuner. An increase of inductance in the antenna circuit for adjustment to a given wave length should be followed by an increase of the secondary inductance to maintain resonance. Also with each change of wave length there is a critical degree of coupling which gives the louder signals in the head telephone.

Under conditions of loose coupling the secondary variable condenser is of some use to reduce interference, but under conditions of close coupling the condenser is preferably set near to zero values of capacity.

The short wave variable condenser is employed to tune the antenna circuit to signals the wave length of which is below the natural wave length of which is below the natural wave length of the receiving antenna. Response to shorter waves is obtained at capacities near to the zero position of the condenser scale. With this condenser in circuit, the wave length of the antenna system will be progressively increased (that is, the oscillation frequency decreased) as the control handle is moved in the direction of maximum capacity. In case of severe interference, the damping of the receiving antenna may be decreased in the following manner: For a given wave length set the short wave variable condenser at a certain value of capacity and obtain resonance by adding inductance at the aerial tuning inductance until maximum response is obtained. Care must be taken to select the correct values of inductance and capacity, which, of course, vary with each aerial. If excessive values of inductance are added, variation of capacity will have little effect on the incoming signals. The fact is that signals would not be heard under these conditions unless the transmitting station is near to the receiving station. Correct values of inductance and capacity are assured if a slight change in condenser capacity eliminates the signals.

We may resume the function of the elements of the tuner as follows: The small push button marked "Test" immediately to the right hand side of the receiving tuner closes the circuit from the battery to the buzzer which permits the manipulator to obtain the best adjustment of the crystal. When turned to the right this button is locked in position. The two switches on the front of the Type 106 tuner marked "transformer primary" vary the inductance of the primary circuit. The switch marked "Units" cuts in a single turn at a time. The switch marked "Tens" varies the primary inductance in groups of ten turns at each point of contact.

The primary condenser has minimum capacity in the zero position but if turned to the 180° mark it is shunted by a special set of contacts (attached to the movable plates and thus cut out of the aerial circuit. All control handles attached to the inductance changing switches and variable condensers of the primary and secondary circuits should be turned counter clockwise for increase of their values.

The switch marked "transformer secondary" and the control handle marked "secondary condenser" control the inductance and capacity of the secondary circuit. The wave length adjustment of the circuit can be increased by turning the switch or the knob of the condenser counter clockwise. Different values of inductance and capacity can be employed in this circuit while holding the same wave length. This changes the damping of the circuit and proper proportioning (of inductance and capacity) may give increased strength of signals during the reception of signals from certain stations.

The control handle marked "potentiometer" varies the flow of current through the detector crystal. Close adjustment of the potentiometer is necessary when the incoming signals are comparatively weak. The switch marked "battery" turns the local battery current on and off.

The terminals marked "battery" connect to four dry cells in a separate box and the terminals marked "telephones" are the binding posts for connection to 2,000 ohm receivers.

As the transmitter operates at approximately the wave length to which the secondary circuit of the receiver is adjusted, it produces exceedingly strong signals which are liable to impair the sensitive condition of the crystal. To obviate this, connections are made with the antenna switch so that when the antenna switch is in the transmitting position the terminals of the detector and the secondary condenser are short-circuited. Care should be taken to see that the antenna switch, with which this receiver is to be used, is so constructed as to perform the above operations. If this is done, the transmitter has very little or no effect on the sensitiveness of the crystal. . . .

S. L. T. FOR TO (214) 3

COLUMBIA

1909 AD



INDESTRUCTIBLE

Records for Phonographs and Graphophones

Own a cylinder Graphophone (or phonograph) get one Indestructible Record from your dealer. Or let us mail one to you:—35 cents, prepaid, and a catalog with it. Drop it to the youngsters. Toss it on the table. Drop it on the floor. Kick it across the room. Throw it in the sun. Then play it and hear a finer, clearer, purer, stronger reproduction—better in every way—than your machine ever gave out before. Play it every day for 10 years and it still have it, good as new. Almost too good to be true? Try it! Prove it! Risk your 35 cents.

Just Out!—The first numbers of a new line of 4-MINUTE INDESTRUCTIBLE RECORDS 50c. Fit any Columbia or Edison machine that has the new 200-thread attachment. Play the complete selection—from 4 to 5 minutes. The only "4 minute" records that are right!

Columbia Phonograph Company, Gen'l, Dept. A, Tribune Building, New York
 Manufacturers of Disc and Cylinder Graphophones—\$20. to \$200. Double-Disc and Indestructible Cylinder Records. Headquarters for Canada—338 Confederation Life Bldg., Toronto, Ont. Prices in Canada plus duty. Dealers Everywhere.
 DEALERS WANTED—Exclusive selling rights given where we are not properly represented.

COMPLETE SELL-OUT

EVERYTHING GOES

RADIO COLLECTION

TS FROM...
SE COUPLER
BOOB SCOTT

SEND SELF-ADDRESSED STAMPED ENVELOPE

FREE LIST

8350 JOHN HERVEY
 2318 KLONDIKE
 DALLAS, TX. 75228

DEC. 25 1909



The "Carborundum" Detector

REG. U. S. PAT. OFF.

No. 30

... IN ORIGINAL BOX WITH INSTRUCTIONS

\$1250 POSTPAID

It's Adjustable
 After Adjustment It's permanently sensitive

ODDBALL??
 TYPE
 31 TUBE

SAME GLASS ENVELOPE (SLIGHTLY TALLER) AS 199 A REAL GOOD BUY... GET SEVERAL!

\$4.00 EA. 3 FOR \$10.00 POSTPAID

WANTED

- RADIOLA II
 - BREADBOARD
 - CRYSTAL SETS
 - CROSLEY (AND OTHER MAKES) TREASURE CHESTS
- PLEASE SEND PRICE AND CONDITION

FOR TRADE ONLY CROSLEY PUP
 WHAT HAVE YOU...??

SET RIDER MANUALS

VOLUMES 1 THRU 10

\$55.00
 FOB DALLAS

...OTHERS THRU VOL 44 AVAILABLE...

WALT JACKSON W5ZYA

909 N.E. 11 TH GRAND PRAIRIE, TX 75050
 WEEKDAYS 214-526-2023 - AFTER 6 CST 214-262-7853

SEND 10¢ AND LONG STAMPED SELF-ADDRESSED ENVELOPE FOR A COPY OF ANTIQUE RADIO TOPICS James Fred, R.1, Cutler, Ind. 46920

KEN WOOD, RECORD AND PHONOGRAPH COLLECTOR buys, sells and trades. 1731 E. Austin, Nacogdoches, Texas 75061



TUFTS COLLEGE, MASSACHUSETTS, HAS FIRST WIRELESS COLLEGE FACULTY
 The first wireless college in the world—this is the distinction that Tufts College, Massachusetts, has. Thirteen of the leading members of the faculty have volunteered to give lectures on their subjects through the wireless radio at the American Radio and Research Corporation plant. The lectures will reach as far west as Wisconsin and as far south as Florida.

RADIO TUBES

FOR SALE IN 1972



METAL AND CERAMIC BASE TUBES

UV 00	8.50
UV 01	7.95
101 D	6.75
202	11.95
205 D	5.75
216 A	12.95
R	8.95
Det.	5.95
205 B	5.75
203 B	9.25
203	7.95
UV 99	14.95
209 A	8.75
250th	8.75
VT-1	18.96
VT-2	22.75
01 A	7.95
VT-4B	12.95
Rect.	7.95
276 A	10.95
261 A	12.95
1162cg	8.95
VD 11	26.95
VD 12	34.95
212	38.95
852	37.95
DV 3	8.75
DV 6	12.95



REGULAR NON-OCTAL PLASTIC BASE TUBES

10	6.95	30	3.50	T-20	6.50	76	2.75
11	7.75	230 D	5.95	308	7.50	77	2.95
12	3.95	2A5	7.95	6285	12.50	78	3.50
20	6.95	2B7	6.75	245	8.50	102 F	4.50
202	8.95	35	3.75	401	11.95	230 D	5.50
205	6.50	36	3.50	71	3.50	Visitr.	3.50
215A	3.95	39	2.75	6B7	4.50	25Z5	3.25
22	4.50	40	5.75	2A5	6.50	106	3.25
24	3.95	41	3.75	6A7	4.50	6A7	4.50
26	3.50	42	4.50	UV 99	5.75	80	2.50
27	2.95	44	3.50	UX 99	3.75	81	4.50
		45	7.95	UV 00A	6.50		
		47	3.50	UX 00A	4.95		
		50	6.50	UV 01A	5.50		
		6D6	2.75	UX 01A	4.95		
		75	2.50	01A	2.75		



WRITE FOR HARD-TO-FIND
EARLY OCTAL TUBES

RED TOP TUBES \$17.95



401 TUBES WITH
FILAMENT CON-
NECTION AT TOP
OF TUBE \$11.95
each

Please add appropriate sales
tax and make remittance to:
JIM CRANSHAW
9820 Silver Meadow Dr.
Dallas, Texas 75217

TRIPLE SET OF BRIGHTSON TRUE
BLUE TUBES IN FELT LINED BOX
ONE TUBE DEFECTIVE \$37.75

DURING FEBRUARY 1972
OR SOLD OUT

**30% OFF ON
ALL TUBES**

JIM CRANSHAW
9820 SILVER MEADOW DR.
DALLAS, TEXAS 75217

214 286-1673

DURING FEBRUARY '72

**20% OFF ON
ALL RADIOS AND
ASSOCIATED ITEMS**

Unless indicated tubes not included in price of sets, but are available from us. Sets shipped by Express, Bus or Parcel service with del. charges collect. Provide adequate postage for small items via US Mail. Please provide stamped and self-addressed envelope in event of correspondence or for return of your check if item is previously sold. \$5.00 Min. Please.

SEND \$3.00 FOR AN 8x10 PHOTOGRAPH OF ANY ITEM ON THESE PAGES FOR SALE

FRED ELSEMANN NR-7

Beautiful bakelite front.
Only needs audio trans-
former.

\$45.00

WILLYOUNG APPARATUS

Test instrument with
early style contact
settings. \$35.00



CREBE SYNCHROPHASE

Beautiful condition \$65.00

BREADBOARD TRANSMITTER
(not wired)

With R.C.A. oscillation
transformer ul-1008, G.E.
rheostat, R.C.A. choke,
R.C.A. transformer, R.C.A.
chopper wheel, Two ut 541
tube bases, and R.C.A.
transmitting condenser
uc1831 \$85.00

RADIOLA RA with DA AMP.

Good condition \$85.00

PEERLESS KONDENSER KIT....\$35.55
ELLIS HAND MIKE, CHROME....\$10.95

STROMBERG CARLSON B POWER SUPPLY

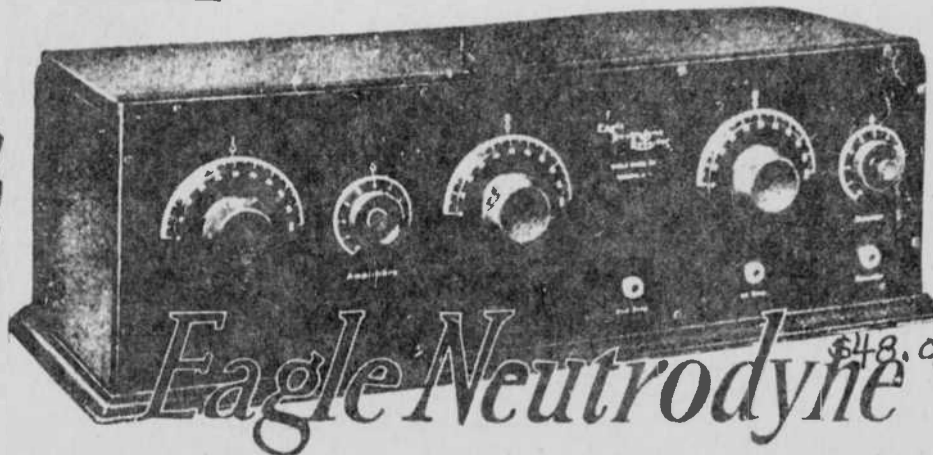
Works well! \$18.95

RADIOLA SUPERHETRODYNE
(semi-portable)

Cabinet good. Controls
and components excellent. \$75.00

RAWSON VOLTMETER

With level and
mirror scale. 1
meg. per volt.
Exciting. \$35.00



Eagle Neutrodyne \$118.00

The

ANTIQUE



P.O. Box 12 Kleberg, Texas 75145

No. 32 monthly (10 issues) March 1972

Price \$3.00 yearly Single issue 50¢

Classified ads....., 8 cent per word

AND PHONOGRAPH NEWS

Edison Records

9676 Dauny and His Hobby Horse (Pryor) Edison Concert Band
9675 When Summer Tells Autumn Good-bye (Helf and Lamb)

October 26, 1907

Manuel Romain
9676 Oh, Oh, Miss Lucy Ella (Von Tilzer & Sterling) Collins & Harlan
9677 Secret Love Gavotte (Resch) bells solo Albert Berzler
9678 He Lost Her in the Subway (Henry and Bryan) Ada Jones

9679 Honey Boy (Von Tilzer and Norworth)

Reed Miller and Reinald Werrenrah
9680 Who? Me? (Snyder and Whiting) Billy Murray

9681 I See Thee Again Waltz (Estrada) Edison Symphony Orchestra

9682 June Moon (Vanderveer and Benham) Irving Gilliatte

9683 Kiss, Kiss, Kiss (Hoffman & Smith) Anna Held's big

success in "The Parisian Model" Ada Jones & Billy Murray

9684 If I'm Goin' to Die, I'm Goin' to Have Some Fun

(Geo. M. Cohan) Arthur Collins

9685 Victorious Eagle March (Rosey) Edison Military Band

9686 Why Did They Sell Killarney? (Dillon Bros.) Frank C. Stanley

9687 At the Village Post Office (Original) Edison Vaudeville Company

9688 'Neath the Old Cherry Tree, Sweet Marie

(Williams and Van Alstyne) Byron G. Harkin

9689 Sweet Spirit, Hear My Prayer (Wallace) Edison Venetian Trio

9690 I've Had Many a Sweetheart, but None Like You (Kerr)

Reed Miller

9691 The King's Business (Cassell and Cassell) Sacred Song

Edison Mixed Quartette

9692 Flanagan at the Doctor's (Original Monologue) Steve Porter

9693 Rakoczy March (Tobani) Edison Hungarian Orchestra

9694 Yesterday (Charles K. Harris) Reinald Werrenrah

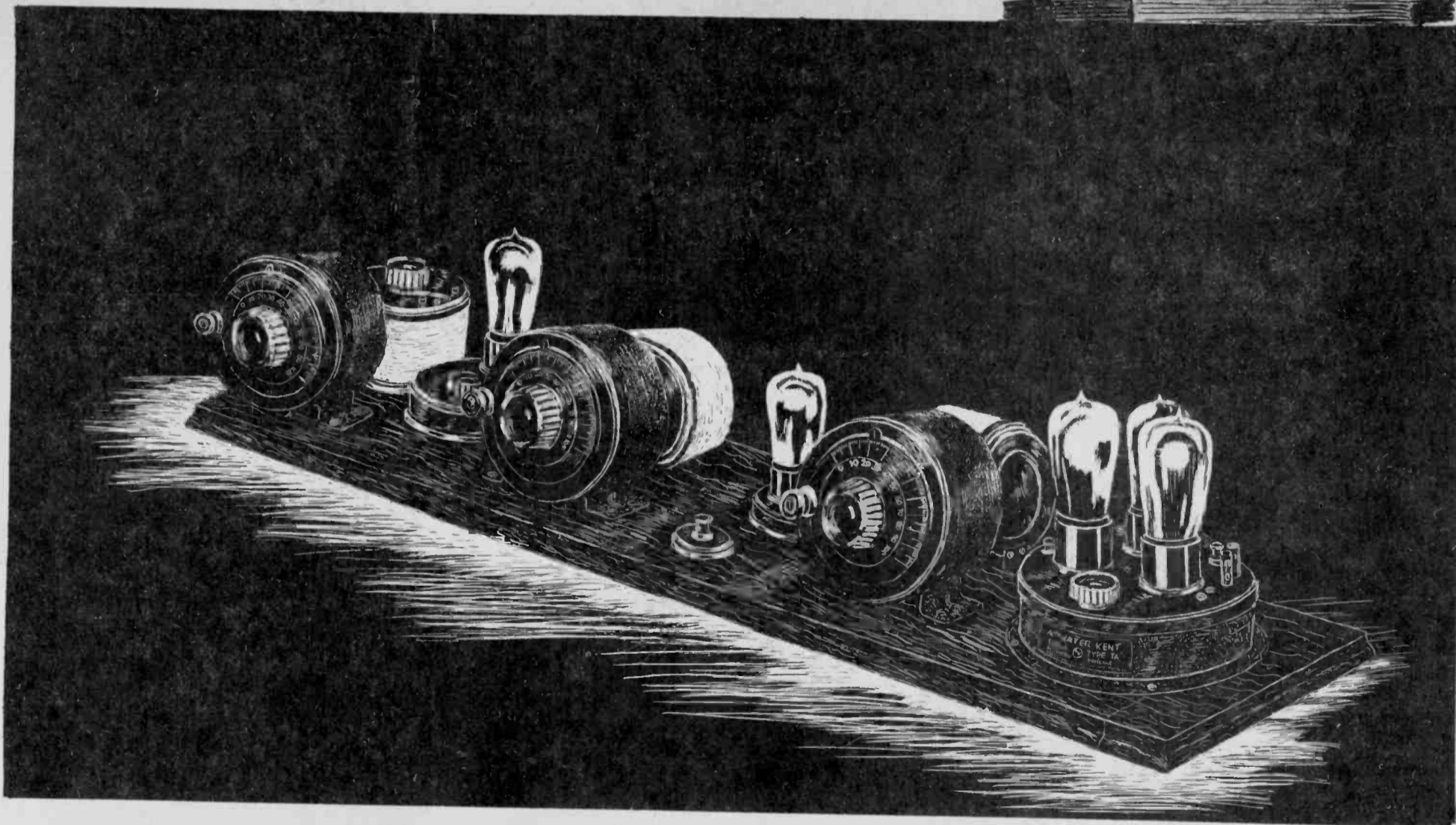
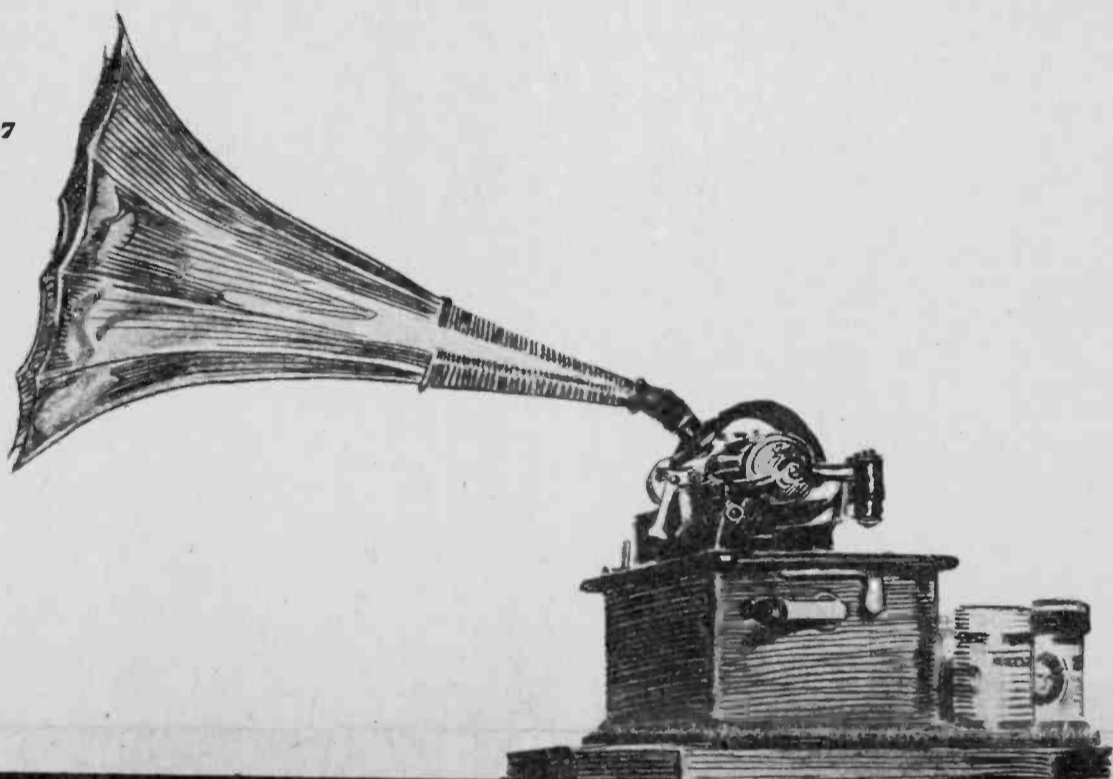
9695 A Coon Courtship (Vaudeville Sketch)

Ada Jones and Len Spencer

9696 When the Band Plays "Yankee Doodle" (Corin and Felst)

Edward Meeker

9697 Many's the Time Medley Edison Military Band



The AK 10

"breadboard" presents electronic components constructed in finished detail to form an arrangement of a beautiful radio. This Atwater Kent model 10 is the vintage radio that often furnishes the "love bite" that "infects" a person's bloodstream to become a radio collector. Many collectors cannot rest until they discover a

"breadboard" radio. It was one of the first radios designed for home entertainment broadcast receiving, starting in the early 1920's. Atwater Kent, the man who built these fabulous "breadboards", progressed to build millions of radios, which of course included radios of modern quality in the middle 1930's. He "closed the doors" of his business in 1936. photo p. 2

Artists on the Air

JANUARY, 1925

THE HORN SPEAKER

Jan Grebe

CRYSTAL SETS

Roland Matson is purchasing 30 Kenrad crystal sets... still in their original cartons. He said, "All have mahogany case aprox 7" wide, 6" high and 6" deep. Have two metal dials in front of crystal. These are coming from a factory in Boston that has been closed down since 1922."

Roland can be reached by writing to 388 Concord Road, Bedford, Mass. 01730

RADIO SHOW

Tom Peters of Dallas is planning to organize a radio show for April. But first he wants to form a club for radio historians and collectors of the Dallas area. Tom can be reached by calling (214) 374-8544.



A. ATWATER KENT 1930



Betty Bronson, movie star, in "Peter Pan" and Herbert Brenon, producer, telling broadcast listeners all about it from KNX

Broadcast listeners enjoyed a real treat when Paula Ayers, contralto opera star, broadcast her songs from WOR



Helen Taylor, coloratura soprano, favored WJZ listeners with an exceptionally fine program recently

WORLD WIDE NEWS

JANUARY, 1925

Station on Island of Yap

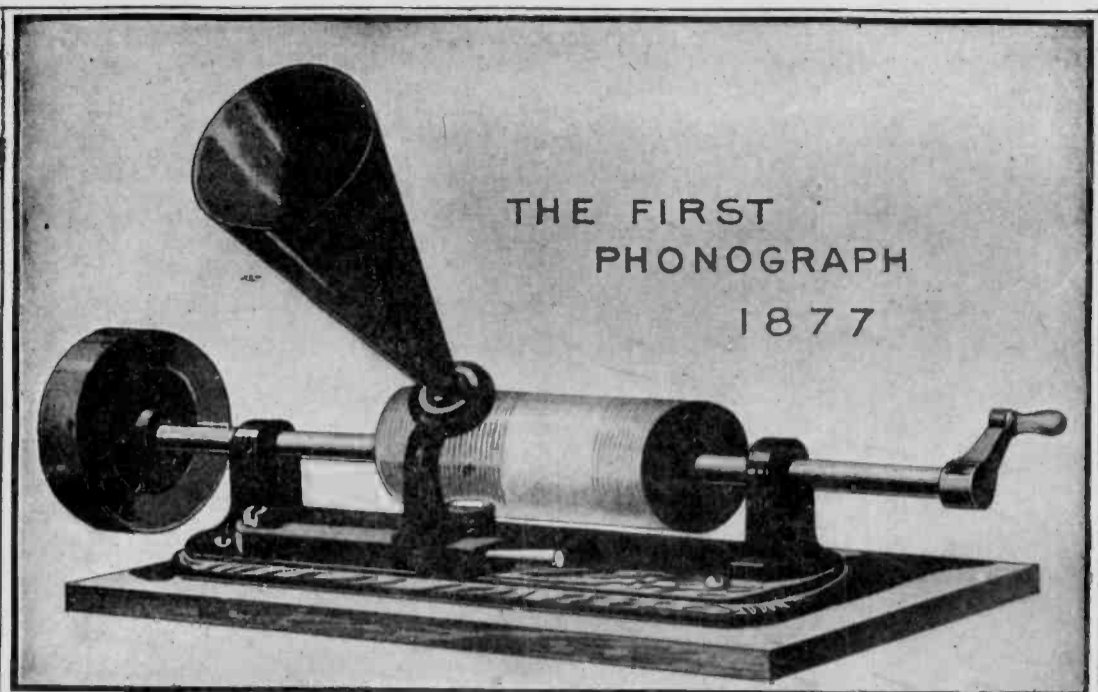
THE Japanese Government is planning to erect a large wireless station on the island of Yap in the Pacific Ocean at a cost estimated at 1,500,000 yen. Construction work on the new station is expected to be started early this year. It was stated in official circles that the plan of the Japanese Government is in accordance with the treaty between the United States and Japan concerning Yap and other mandated islands in the Pacific Ocean, which was signed at Washington at the time of the Disarmament Conference.



President Kalenin of Russia using radio to broadcast his address to the all-Russian Council of Soviets



Winston Churchill using the radio public loudspeaker system in an address to the British electorate



THE FIRST
PHONOGRAPH
1877

Underwood & Underwood

GEO. L. SHUMAN & Co. 1914, 1918

THE PHONOGRAPH AND ITS INVENTOR

AMONG the many brilliant ideas which have sprung from the marvelous mind of the wizard Edison, few have produced a more lasting impression on the world at large than that which made the modern talking machine possible.

The first phonograph appeared in 1876, but as early as 1856 an instrument was devised by a man named Scott which would mechanically register the atmospheric vibrations caused by the human voice or by musical instruments. This, however, was only a recorder, not a reproducer, and this second part did not make its appearance until Edison embodied both principles in his first phonograph. It was a very simple instrument and consisted of a metal cylinder finely threaded with a continuous square-section groove. This was mounted on a long spindle supported on upright bearings and having at one end a screw thread with the same pitch as that cut on the cylinder. A heavy flywheel was also placed on the spindle to make the speed of rotation uniform, and the whole was turned by a handle. A thin sheet of tin foil was stretched over the grooved cylin-

der and on it rested a steel point held down by a spring and separated from a vibrating diaphragm by a rubber pad. There was also a large mouthpiece to concentrate the sound vibrations.

To make a record with this machine a person would speak into the mouthpiece, turning the spindle by hand at the same time. The vibrations set up by the voice acted through the diaphragm on the steel needle and caused its movements to correspond with these voice vibrations. Then the needle, passing over the tin foil directly above the grooves in the cylinder, forced the thin sheet down into the grooves to a greater or less degree according to the vibrations. When the record was completed the needle could be again started in the grooves it had just made in the tin foil and the variation in the shape and depth of the grooves caused by the different vibrations of the voice would reproduce the sounds which had caused the vibrations. This first instrument, of course, had many faults. It was heavy, clumsy, and harsh-toned, and the records became quickly worn out.

CONTINUED NEXT MONTH



The ARBITER

Electric
Phonograph
and Radio
Combination

\$137.50
LESS
TUBES

1930

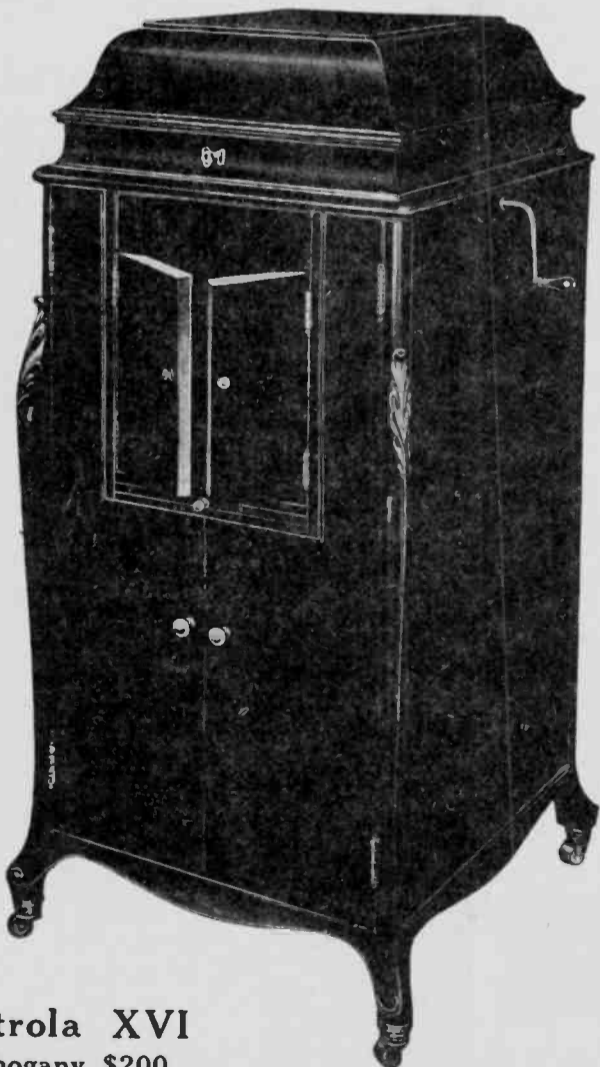
As an example of the beauty, value, originality and distinction of the NEW Crosley line, look at The CROSLY ARBITER shown above. An electric phonograph and radio combination at only \$137.50! A highly sensitive and selective Screen Grid, Neutrodyne, power speaker, A. C. electric receiving set housed in a delightfully designed and executed cabinet—plus— an electric phonograph and pick-up. Never before has such an outstanding value been offered in radio. The beauty of the cabinet is self-evident. The latest type Crosley moving coil dynamic power speaker is used. The automatic volume control maintains a uniform volume all over the dial. The tubes required are: Three Screen Grid type -24, one type -27, two type -45, and one rectifier tube type -80. Dimensions: Only 35" high, 23 3/4" wide, 15" deep. Available with induction type self-starting motor at \$147.50.

Backed with extensive national advertising, this remarkable Crosley line will be the fastest-selling, biggest profit-making line on the market. Get in touch with your Crosley distributor immediately and learn more about this wonderful new line.

THE CROSLY RADIO CORPORATION
POWEL CROSLY, JR., President Home of "the Nation's Station"—WLW
CINCINNATI, OHIO

Also manufacturers of CROSLY Battery Radio Receivers: the CROSLY ROAMIO
Automobile Radio Receiving Set, and the famous AMRAD RADIO

FOR CONTINUED DELIVERY SUBSCRIBE
NOW TO THE ANTIQUE RADIO AND
PHONOGRAPH NEWS



Victrola XVI

Mahogany, \$200
Quartered oak, \$200
Circassian walnut, \$250

Classified Ads



WANTED: Old electric incandescent lightbulbs with tip on top. Standard and unusual bases. Unusual sockets. Also literature on early electric lighting. Send sketch, description and price. Michael Mosny, 66 The Terrace, Katonah, New York 10536

KEN WOOD, RECORD AND PHONOGRAPH COLLECTOR BUYS; sells and trades. 1731 E. Austin, Nacogdoches, Texas 75961

SEND 10¢ AND LONG STAMPED SELF-ADDRESSED ENVELOPE FOR A COPY OF ANTIQUE RADIO TOPICS James Fred, R. 1, Cutler, Ind. 46920

STROMBERG CARLSON model 72, C. K. Wesley, The Monroe Evening News, Monroe, Michigan 48161

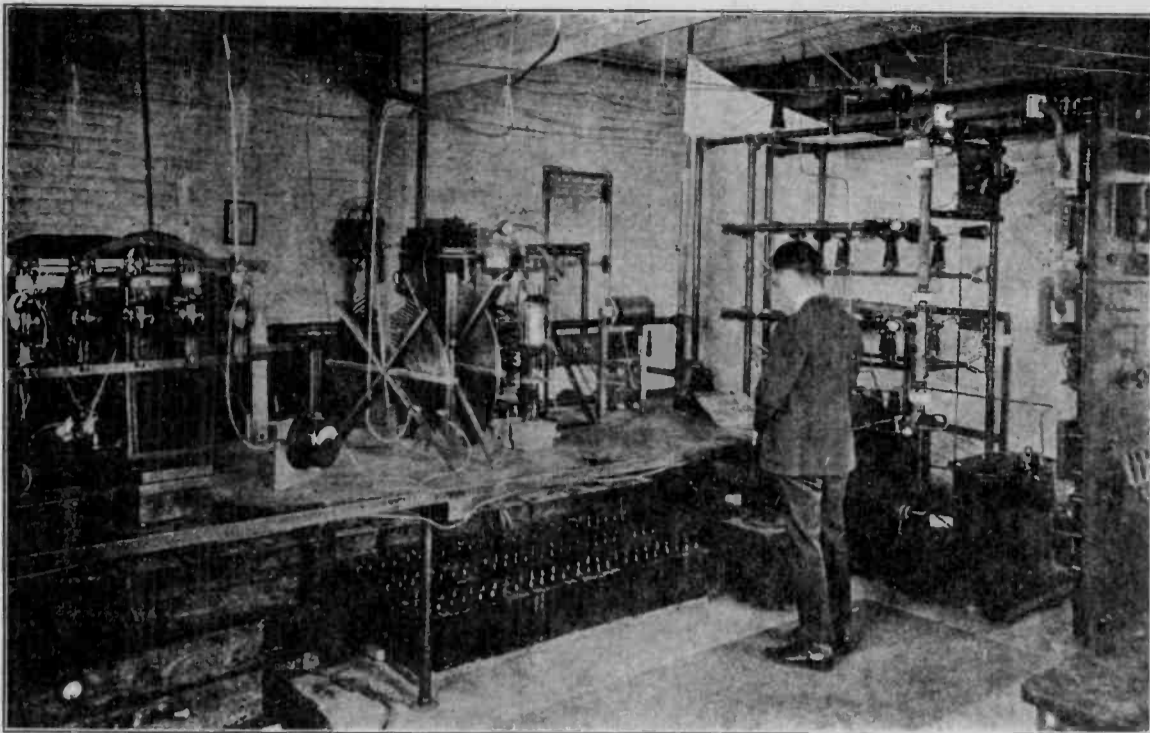
WANTED, audio transformer and tube socket for Crosley 52, Al Schwarz, 7232 Keystone, Lincolnwood, Illinois 60646

Wanted, Kennedy type 521 amp. Parts for Kennedy 220 receiver and 525 amp...1 binding post knob, 1 dial for amplifier rheostat, 1 rheostat for receiver, 2 rheostats for amplifier, 1 knob for receiver rheostat. Harry Williams, 1303 College hill St., Pleasant Hill, Missouri 64080

WANTED, audio transformer for RCA Radiola 111, Edward P. Remski, 8-Caffrey Ave. Bethpage, N.Y. 11714

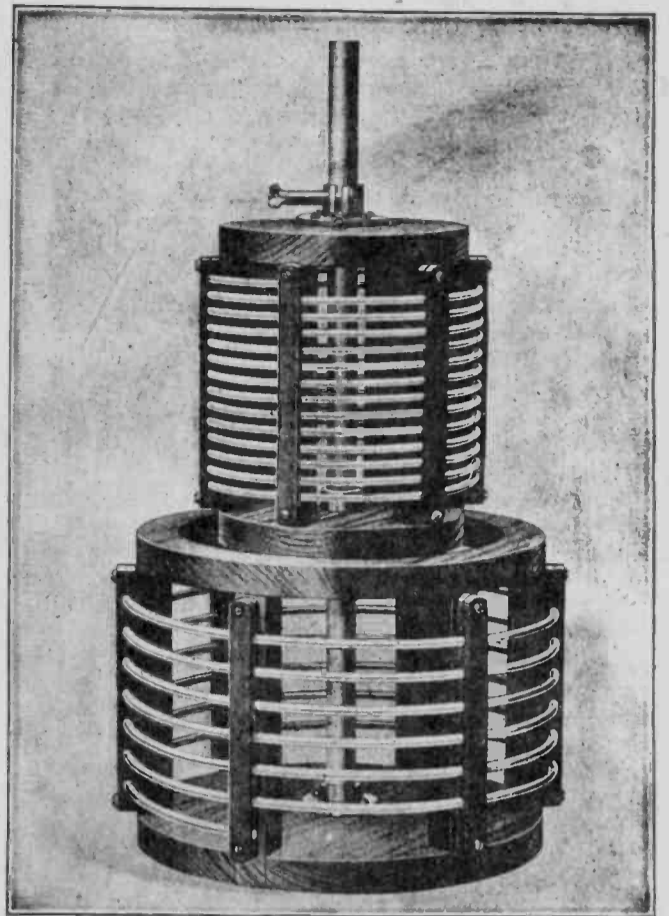
WANTED: radio and phonograph collections, Wallace McPeak, Route 1 box 86, Lindale, Texas 75771

Wanted, interstage transformer and tube socket for Crosley 51, R. A. Misak, 5524 N. Major Ave. Chicago, Ill. 60630



Underwood & Underwood, N. Y.
A POWERFUL RADIO BROADCASTING STATION

An interior view of the new wireless broadcasting plant of The General Electric Company at Schenectady, N. Y., showing the apparatus which amplifies the voice or music several thousands of times, then huris it out into space at the rate of 186,000 miles per second. Recently its tests were heard 1,450 miles away, in Santa Clara, Cuba. "Don't stop your music, we're dancing to it down here," read a cablegram received from a hotel in Santa Clara.



Double helix oscillation transformer; coils separated axially.

14-inch Bell Polished Pyralin

Burns
A Speaker of Distinctive Lines

All the volume you want with no sacrifice of clearness or naturalness. The full true tones of voice or music are reproduced. Equal to hearing the original. Speaker Unit only supplied for use on phonographs—fits any make.

No. 205B—Polished black flare.....\$22.50
No. 205D—Shell pyralin flare..... 25.00
No. 100—Unit for phonograph use..... 10.00

Makers of telephones for 30 years.

Manufactured by
American Electric Company
State and 64th Streets
CHICAGO

Aluminum sound column

Learn the Code at Home with the Omnigraph

"Just Listen—The Omnigraph will do the teaching"

THE OMNIGRAPH Automatic Transmitter will teach you both the Wireless and Morse Code—right in your own home—quickly, easily and inexpensively. Connected with Buzzer, Buzzer and Phone or Sounder, it will send you unlimited messages, at any speed from 5 to 50 words a minute. THE OMNIGRAPH is not an experiment. For more than 15 years it has been sold all over the world with a money back guarantee. The OMNIGRAPH is used by several Depts. of the U. S. Govt.—in fact the Dept. of Commerce uses THE OMNIGRAPH to test all applicants applying for a radio license. THE OMNIGRAPH has been successfully adopted by the leading Universities, Colleges and Radio Schools.

Send for FREE Catalog describing three models.
DO IT TODAY.
THE OMNIGRAPH MFG. CO.
16B Hudson St. New York City

If you own a Radio Phone set and don't know the Code—you are missing most of the fun

GENERAL RADIO AUDIBILITY METER 166
\$12.00
Every collection needs one! ~~\$25.00~~

RADIOLA SUPERHETRODYNE
(semi-portable)

Cabinet good. Controls and components excellent.

WITH TUBES ~~\$75.00~~ NOW! \$70.00

DEFOREST HONEYCOMB COIL SET

Good working and appearance condition but one knob is missing. ~~\$25.00~~ \$18.00

RADIOLA RA with DA AMP.

Good condition ~~\$85.00~~ NOW! \$52.00

ATWATER KENT 20 COMPACT

Good condition with rubbed down cabinet.

WITH TUBES ~~\$40.00~~ NOW! \$28.00

GROSLEY V1

Next to perfect. Original warranty card included.

~~\$85.00~~ \$78.00

BREADBOARD TRANSMITTER
(not wired)

With R.C.A. oscillation transformer ul-1008, G.E. rheostat, R.C.A. choke, R.C.A. transformer, R.C.A. chopper wheel, Two ut 541 tube bases, and R.C.A. transmitting condenser uc1831 ~~\$85.00~~ \$75.00

CREBE SYNCHROPHASE

Beautiful condition ~~\$65.00~~ \$48.00

JIM CRANSHAW
9820 SILVER MEADOW DR.
DALLAS, TEXAS 75217

214 286-1673

Unless indicated tubes not included in price of sets, but are available from us. Sets shipped by Express, Bus or Parcel service with del. charges collect. Provide adequate postage for small items via US Mail. Please provide stamped and self-addressed envelope in event of correspondence or for return of your check if item is previously sold. \$5.00 Min. Please.

SEND \$3.00 FOR AN 8x10 PHOTOGRAPH OF ANY ITEM ON THESE PAGES FOR SALE

KENNEDY V1

A very rare early broadcast set with tubes that project out of a brass trimmed sloping front.

~~\$175.00~~ \$160.00

The

ANTIQUE



P.O. Box 12 Kleberg, Texas 75145

No. 32 monthly (10 issues) March 1972

Price \$3.00 yearly Single issue 50¢

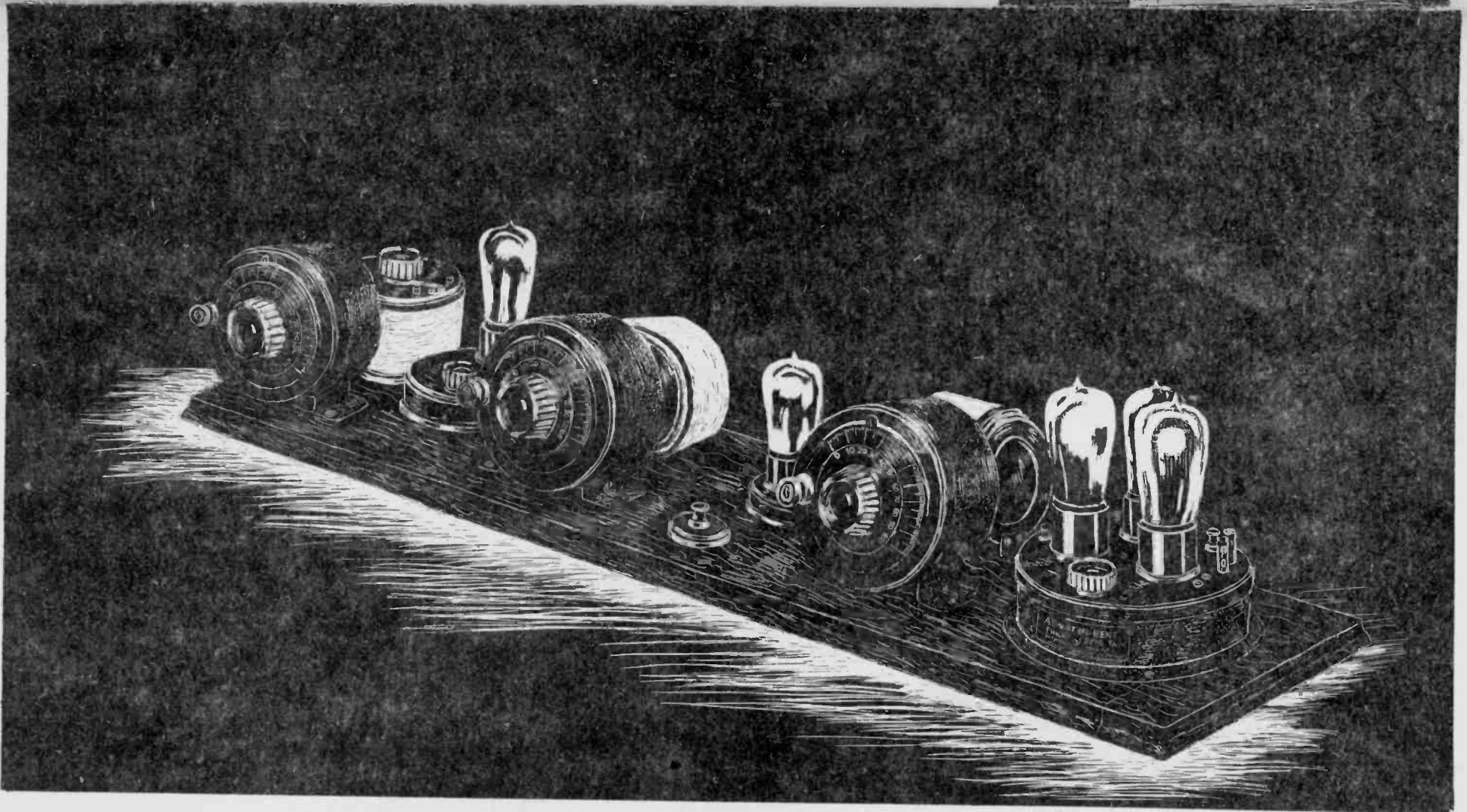
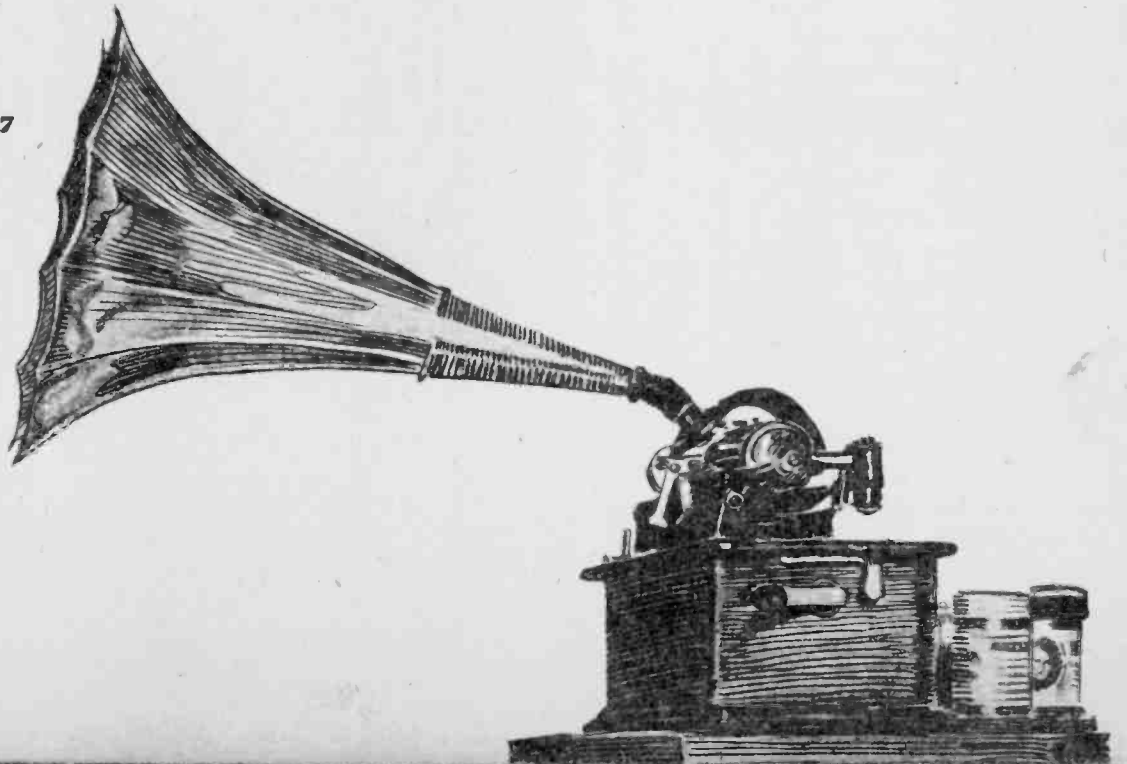
Classified ads....., 8 cent per word

AND PHONOGRAPH NEWS

Edison Records

October 26, 1907

- 9674 Danny and His Hobby Horse (Pryor) Edison Concert Band
- 9675 When Summer Tells Autumn Good-bye (Helt and Lamb) Manuel Romain
- 9676 Oh, Oh, Miss Lucy Ella (Von Tilzer & Sterling) Collins & Harlan
- 9677 Secret Love Gavotte (Resch) bells solo Albert Benzler
- 9678 He Lost Her in the Subway (Henry and Bryan) Ada Jones
- 9679 Honey Boy (Von Tilzer and Norworth) Reed Miller and Reinald Werrenrath
- 9680 Who? Me? (Snyder and Whiting) Billy Murray
- 9681 I See Thee Again Waltz (Estrada) Edison Symphony Orchestra
- 9682 June Moon (Vanderveer and Benham) Irving Gillette
- 9683 Kiss, Kiss, Kiss (Hoffman & Smith) Anna Held's big success in "The Parisian Model" Ada Jones & Billy Murray
- 9684 If I'm Goin' to Die, I'm Goin' to Have Some Fun (Geo. M. Cohan) Arthur Collins
- 9685 Victorious Eagle March (Rosey) Edison Military Band
- 9686 Why Did They Sell Killarney? (Dillon Bros.) Frank C. Stanley
- 9687 At the Village Post Office (Original) Edison Vaudeville Company
- 9688 'Neath the Old Cherry Tree, Sweet Marie (Williams and Van Alstyne) Byron G. Harlan
- 9689 Sweet Spirit, Hear My Prayer (Wallace) Edison Venetian Trio
- 9690 I've Had Many a Sweetheart, but None Like You (Kerr) Reed Miller
- 9691 The King's Business (Cassell and Cassell) Sacred Song Edison Mixed Quartette
- 9692 Flanagan at the Doctor's (Original Monologue) Steve Porter
- 9693 Rakoczy March (Tobani) Edison Hungarian Orchestra
- 9694 Yesterday (Charles K. Harris) Reinald Werrenrath
- 9695 A Coon Courtship (Vaudeville Sketch) Ada Jones and Len Spencer
- 9696 When the Band Plays "Yankee Doodle" (Corin and Feist) Edward Meeker
- 9697 Many's the Time Medley Edison Military Band



The AK 10 "breadboard"

presents electronic components constructed in finished detail to form an arrangement of a beautiful radio. This Atwater Kent model 10 is the vintage radio that often furnishes the "love bite" that "infects" a person's bloodstream to become a radio collector. Many collectors cannot rest until they discover a

"breadboard" radio. It was one of the first radios designed for home entertainment broadcast receiving, starting in the early 1920's. Atwater Kent, the man who built these fabulous "breadboards", progressed to build millions of radios, which of course included radios of modern quality in the middle 1930's. He "closed the doors" of his business in 1936. photo p. 2

Artists on the Air

JANUARY, 1925

THE HORN SPEAKER

Jan Grebe

CRYSTAL SETS

Roland Matson is purchasing 30 Kenrad crystal sets... still in their original cartons. He said, "All have mahogany case aprox 7" wide, 6" high and 6" deep. Have two metal dials in front of crystal. These are coming from a factory in Boston that has been closed down since 1922."

Roland can be reached by writing to 388 Concord Road, Bedford, Mass. 01730

RADIO SHOW

Tom Peters of Dallas is planning to organize a radio show for April. But first he wants to form a club for radio historians and collectors of the Dallas area. Tom can be reached by calling (214) 374-8544.



A. ATWATER KENT 1930

Betty Bronson, movie star, in "Peter Pan" and Herbert Brenon, producer, telling broadcast listeners all about it from KNX

Broadcast listeners enjoyed a real treat when Paula Ayers, contralto opera star, broadcast her songs from WOR

Helen Taylor, coloratura soprano, favored WJZ listeners with an exceptionally fine program recently

WORLD WIDE NEWS

JANUARY, 1925

Station on Island of Yap

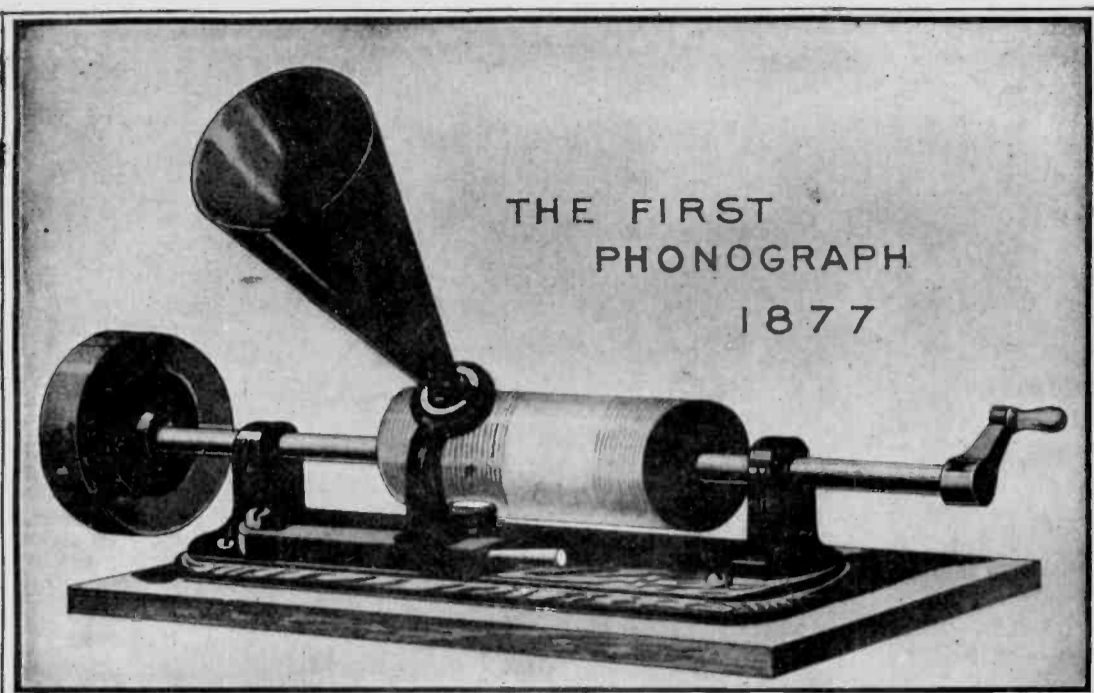
THE Japanese Government is planning to erect a large wireless station on the island of Yap in the Pacific Ocean at a cost estimated at 1,500,000 yen. Construction work on the new station is expected to be started early this year. It was stated in official circles that the plan of the Japanese Government is in accordance with the treaty between the United States and Japan concerning Yap and other mandated islands in the Pacific Ocean, which was signed at Washington at the time of the Disarmament Conference.



President Kalenin of Russia using radio to broadcast his address to the all-Russian Council of Soviets



Winston Churchill using the radio public loudspeaker system in an address to the British electorate



THE FIRST
PHONOGRAPH
1877

Underwood & Underwood

GEO. L. SHUMAN & Co. 1914, 1918

THE PHONOGRAPH AND ITS INVENTOR

AMONG the many brilliant ideas which have sprung from the marvelous mind of the wizard Edison, few have produced a more lasting impression on the world at large than that which made the modern talking machine possible.

The first phonograph appeared in 1876, but as early as 1856 an instrument was devised by a man named Scott which would mechanically register the atmospheric vibrations caused by the human voice or by musical instruments. This, however, was only a recorder, not a reproducer, and this second part did not make its appearance until Edison embodied both principles in his first phonograph. It was a very simple instrument and consisted of a metal cylinder finely threaded with a continuous square-section groove. This was mounted on a long spindle supported on upright bearings and having at one end a screw thread with the same pitch as that cut on the cylinder. A heavy flywheel was also placed on the spindle to make the speed of rotation uniform, and the whole was turned by a handle. A thin sheet of tin foil was stretched over the grooved cylin-

der and on it rested a steel point held down by a spring and separated from a vibrating diaphragm by a rubber pad. There was also a large mouthpiece to concentrate the sound vibrations.

To make a record with this machine a person would speak into the mouthpiece, turning the spindle by hand at the same time. The vibrations set up by the voice acted through the diaphragm on the steel needle and caused its movements to correspond with these voice vibrations. Then the needle, passing over the tin foil directly above the grooves in the cylinder, forced the thin sheet down into the grooves to a greater or less degree according to the vibrations. When the record was completed the needle could be again started in the grooves it had just made in the tin foil and the variation in the shape and depth of the grooves caused by the different vibrations of the voice would reproduce the sounds which had caused the vibrations. This first instrument, of course, had many faults. It was heavy, clumsy, and harsh-toned, and the records became quickly worn out.

CONTINUED NEXT MONTH



The ARBITER

Electric Phonograph and Radio Combination \$137.50 LESS TUBES

1930

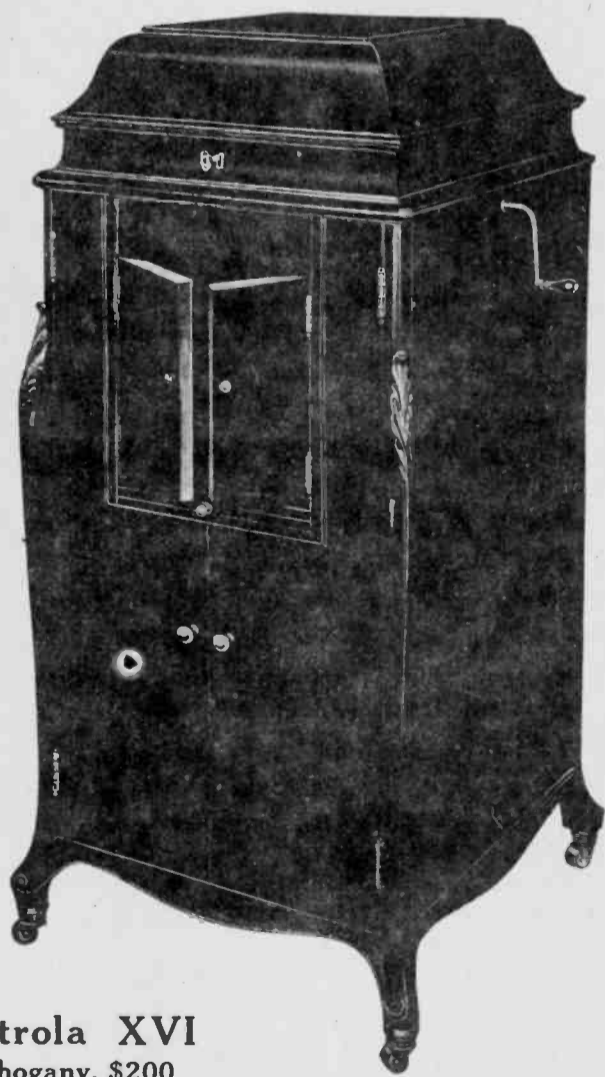
As an example of the beauty, value, originality and distinction of the NEW Crosley line, look at The CROSLY ARBITER shown above. An electric phonograph and radio combination at only \$137.50! A highly sensitive and selective Screen Grid, Neutrodyne, power speaker, A. C. electric receiving set housed in a delightfully designed and executed cabinet—plus— an electric phonograph and pick-up. Never before has such an outstanding value been offered in radio. The beauty of the cabinet is self-evident. The latest type Crosley moving coil dynamic power speaker is used. The automatic volume control maintains a uniform volume all over the dial. The tubes required are: Three Screen Grid type -24, one type -27, two type -45, and one rectifier tube type -80. Dimensions: Only 35" high, 23 1/4" wide, 15" deep. Available with induction type self-starting motor at \$147.50.

Backed with extensive national advertising, this remarkable Crosley line will be the fastest-selling, biggest profit-making line on the market. Get in touch with your Crosley distributor immediately and learn more about this wonderful new line.

THE CROSLY RADIO CORPORATION
POWEL CROSLY, JR., President Home of "the Nation's Station"—WLW
CINCINNATI, OHIO

Also manufacturers of CROSLY Battery Radio Receivers, the CROSLY ROAMIO Automobile Radio Receiving Set, and the famous AMRAD RADIO

FOR CONTINUED DELIVERY SUBSCRIBE NOW TO THE ANTIQUE RADIO AND PHONOGRAPH NEWS



Victrola XVI

Mahogany, \$200
Quartered oak, \$200
Circassian walnut, \$250

Classified Ads

WANTED: Old electric incandescent lightbulbs with tip on top. Standard and unusual bases. Unusual sockets. Also literature on early electric lighting. Send sketch, description and price. Michael Mosny, 66 The Terrace, Katonah, New York 10536



KEN WOOD, RECORD AND PHONOGRAPH COLLECTOR BUYS; sells and trades. 1731 E. Austin, Nacogdoches, Texas 75961

SEND 10¢ AND LONG STAMPED SELF-ADDRESSED ENVELOPE FOR A COPY OF ANTIQUE RADIO TOPICS James Fred, R. 1, Cutler, Ind. 46920

STROMBERG CARLSON model 72, C. K. Wesley, The Monroe Evening News, Monroe, Michigan 48161

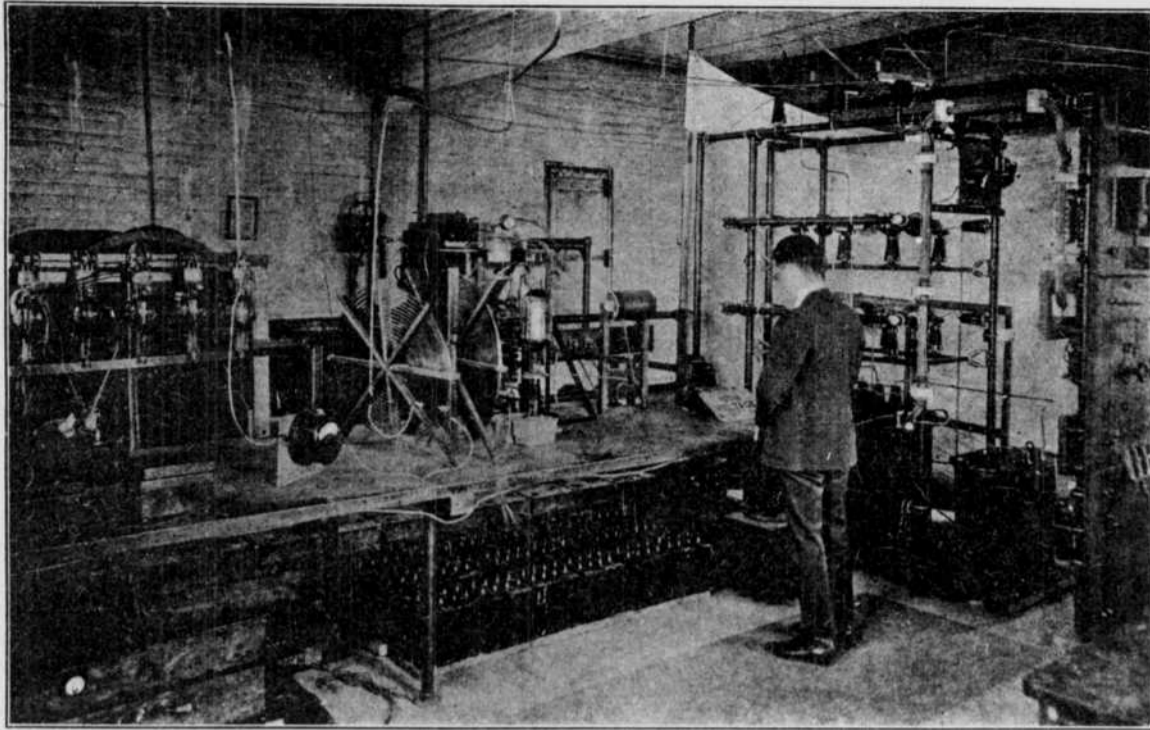
WANTED, audio transformer and tube socket for Crosley 52, Al Schwarz, 7232 Keystone, Lincolnwood, Illinois 60646

Wanted, Kennedy type 521 amp. Parts for Kennedy 220 receiver and 525 amp...1 binding post knob, 1 dial for amplifier rheostat, 1 rheostat for receiver, 2 rheostats for amplifier, 1 knob for receiver rheostat. Harry Williams, 1303 Collegehill St., Pleasant Hill, Missouri 64080

WANTED, audio transformer for RCA Radiola 111, Edward P. Remski, 8-Caffrey Ave. Bethpage, N.Y. 11714

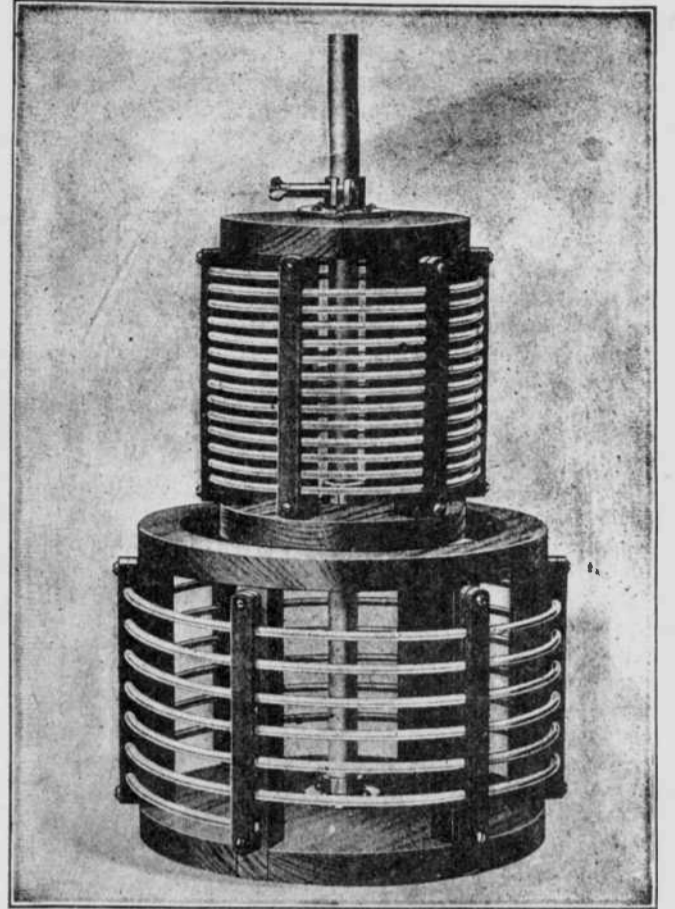
WANTED: radio and phonograph collections, Wallace McPeak, Route 1 box 86, Lindale, Texas 75771

Wanted, interstage transformer and tube socket for Crosley 51, R. A. Misak, 5524 N. Major Ave. Chicago, Ill. 60630



Underwood & Underwood, N. Y.
A POWERFUL RADIO BROADCASTING STATION

An interior view of the new wireless broadcasting plant of The General Electric Company at Schenectady, N. Y., showing the apparatus which amplifies the voice or music several thousands of times, then hurls it out into space at the rate of 186,000 miles per second. Recently its tests were heard 1,450 miles away, in Santa Clara, Cuba. "Don't stop your music, we're dancing to it down here," read a cablegram received from a hotel in Santa Clara.



Double helix oscillation transformer; coils separated axially.

14-inch Bell Polished Pyralin

Burns
A Speaker of Distinctive Lines

All the volume you want with no sacrifice of clearness or naturalness. The full true tones of voice or music are reproduced. Equal to hearing the original. Speaker Unit only supplied for use on phonographs—fits any make.

No. 205B—Polished black flare.....\$22.50
No. 205D—Shell pyralin flare..... 25.00
No. 100—Unit for phonograph use..... 10.00

Makers of telephones for 30 years.

Manufactured by
American Electric Company
State and 64th Streets
CHICAGO

Aluminum sound column

Learn the Code at Home with the Omnigraph

"Just Listen—The Omnigraph will do the teaching"

THE OMNIGRAPH Automatic Transmitter will teach you both the Wireless and Morse Codes—right in your own home—quickly, easily and inexpensively. Connected with Burner, Burner and Phone or Sounder, it will send you unlimited messages, at any speed from 5 to 50 words a minute. THE OMNIGRAPH is not an experiment. For more than 15 years it has been sold all over the world with a money back guarantee. The OMNIGRAPH is used by several Depts. of the U. S. Govt.—in fact the Dept. of Commerce uses THE OMNIGRAPH to test all applicants applying for a radio license. THE OMNIGRAPH has been successfully adopted by the leading Universities, Colleges and Radio Schools. Send for FREE Catalog describing three models. DO IT TODAY.

THE OMNIGRAPH MFG. CO.
16B Hudson St. New York City

If you own a Radio Phone set and don't know the Code—you are missing most of the fun

GENERAL RADIO AUDIBILITY METER 164
Every collection needs one } ~~\$15.00~~ ^{\$12.00}

RADIOLA SUPERHETRODYNE
(semi-portable)

Cabinet good. Controls and components excellent. WITH TUBES ~~\$75.00~~ NOW! \$70.00

DEFOREST HONEYCOMB COIL SET

Good working and appearance condition but one knob is missing. ~~\$25.00~~ \$18.00

RADIOLA RA with DA AMP.

Good condition ~~\$85.00~~ NOW! \$52.00

ATWATER KENT 20 COMPACT

Good condition with rubbed down cabinet.

WITH TUBES ~~\$40.00~~ NOW! \$28.00

GROSLY VI

Next to perfect. Original warranty card included.

~~\$85.00~~ \$78.00

BREADBOARD TRANSMITTER
(not wired)

With R.C.A. oscillation transformer ul-1008, G.E. rheostat, R.C.A. choke, R.C.A. transformer, R.C.A. chopper wheel, Two ut 541 tube bases, and R.C.A. transmitting condenser ue1831 ~~\$75.00~~ \$25.00

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