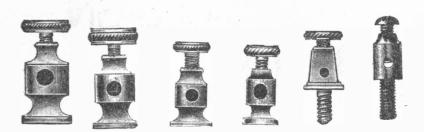
214-286-1673

THE NEWSPAPER FOR THE HOBBYIST OF VINTAGE ELECTRONICS AND SOUND

Binding Posts











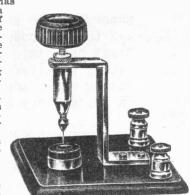


ELECTROLYTIC DETECTOR.

Our improved electrolytic detector has the same marked improvements which characterize our Improved Peroxide of Lead detector. The piston holding the pin moves within our newly devised bushing. The resistance spring inside the pin moves within our newly devised bushing. The resistance spring inside the pin moves within our newly devised bushing. The resistance spring inside the pin moves within our newly devised bushing. The resistance spring inside the pin moves within our newly devised bushing of fine adjustment. All contacts critically all types of electrolytic detectors that have come to our attention, the Wollaston wire is wobbly and renders it very difficult to get a good adjustment. Another great advantage in this detector is the simple and easy manner in which the Wollaston wire is put in place. No ting list in the simple and easy manner in which the Wollaston wire is put in place. No ting list in the simple and easy manner in which the Wollaston wire is snugly. It is a very simple matter to put the wire into the pin, and once it is in. The extreme sensitiveness of electrolytic detectors is conceded by all persons of the pin, into which the Wollaston wire distance in the pin and once it is in. The extreme sensitiveness of electrolytic detector is conceded by all persons of the pin and once it is in. The extreme sensitiveness of electrolytic detector which we was impossible to purchase an electrolytic detector which we work is required. It is unquestionably the best and most practical and efficient type of electrolytic detector on the market for the price.

Instead of the carbon to hold the acid, this detector has a graphite carbon cup, absolutely guaranteed not to leak. One of the most important features of an electrolytic detector consists in the mechanism used to raise and lower the fine Wollaston wire. With our detector the wire is moved up and down in a vertical direction, so that it may be dipped into the electrolyte (acid) to the precise depth required.

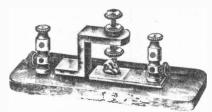
Wollaston wire is q



the receiver.

It is a simple matter to prepare the detector for work. The cup should be filled by using the pipette furnished with detector. It has been discovered that it is not necessary to draw off acid each time the detector is used. Place but one drop of ordinary kerosene oil on the acid in the carbon cup, using the pipette to do so. This will effectually prevent evaporation and the acid may be left in detector for weeks without the instrument being in the least affected. The solution can of course be kept in bottle tightly stoppered, to be used a great many times.

Detectors



No. 60X12 Detector Stand is very simple in construction, and very sensitive.
Any of the substances used with detectors may be used in this detector stand,

No. 60X12 Detector Stand only...\$1.00

Postage 11c.

IMPROVED PEROXIDE OF LEAD DETECTOR.

Our improved Peroxide of Lead Detector is the result of much experimenting. The piston holding the upper electrode moves within our newly devised bushing. The resistance spring inside the bushing is held in place without danger of being thrown to one side or another, when using the detector, thus permitting of fine adjustment. All contacts as a result are perfectly made, giving an extremely sensitive instrument. The very serious and annoying defects common to several types of Peroxide of Lead detectors now on the market, are all avoided in this excellent detector.

«This detector is one of the most sensitive types of detectors yet devised. It works on a unique principle. Although no acids or liquids of any kind are used, the action is electrolytic. As is commonly known, this action is brought about by the plating of the detector plates between which the peroxide of lead pellet is placed.

is placed.

This detector works only with a battery, and to obtain the best results, our Potentiometer should be used with it. The positive pole of battery must be connected to the post marked "X." It is especially desirable for portable sets, or sets subjected to shocks or jars. It will also retain its adjustment better than the majority of detectors. A good sized piece of Peroxide of Lead is provided with each detector. For short distance, a fine adjustment is not necessary, but a fairly good pressure should be brought upon the peroxide.

For long distance work, very light adjustment is required.

No. 40X02 Improved Peroxide of Lead Detector........25

Postage 12c.



THE BOOK THAT NO WIRELESS FAN SHOULD BE WITHOUT

Cat's Whisker

JONATHAN HILL PHOTOGRAPHS BY TREFOR BALL

The history of the wireless set, from the earliest amateur creations, through its heyday in the Second World War, to the post-war advent of television.

Jonathan Hill's complete and readable account of the sets and how they were developed has more than 120 illustrations from the author's own collection of vintage radios and components, early photographs of transmitting and receiving stations, wireless manuals, magazine advertisements and cartoons.

THE CAT'S WHISKER also contains a chronology of wireless history, from 1864 when James Clerk Maxwell presented his theory of the existence of electromagnetic waves to 1946 and the introduction of the BBC "Third Programme" in Great Britain. There is valuable information on how to date a receiver from the names of the stations on the tuning dial, and a bibliography of U.S. and British works on the history of radio broadcasting.

Everyone who even knows what THE CAT'S WHISKER means will find Hill's book a treasure house of information and delight. Order it today!

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The Triumph of the Master Mind

The autome of close concentration on the fundamental principles of radio reception by the Manconi Company's Engineers.

Marconiphone Model 22 (Two Vaive) Receiving Set with Sterling "Buby" Lond Speaker

Each type of Marconiphone, from a single valve to an eight valve, instrument represents the highest efficiency in its particular class for simplicity of operation, perfectly pure and natural reproduction of music and speech and above all consistent reliability.

Most of the new models of Marconiphone Receivers are adaptable for operation entirely from A.C. mains, D.C. mains or batteries, thus giving a choice of power supplies unobtainable with any other instruments of their type.

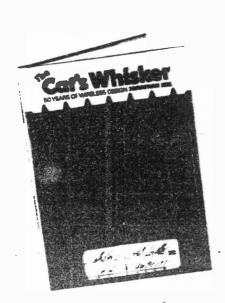
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Descriptive literature on Marconiphone Wireless Equipment is abtainable from all responsible Radio desires or on application to

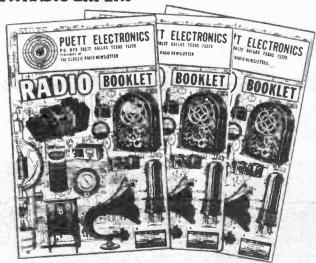
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OUR ALL NEW ANTIQUE RADIO SUBSTITUTION BOOKLET IS OFF THE PRESS!! When it seems impossible to find a certain tube type, it is often possible to substitute another type tube with no circuitry changes. This booklet contains Four Levels Of Substitution. How to substitute 6.3 vac filament tubes for 2.5 vac filament tubes, A table of direct substitute tubes, A table of tube adapters, A table of identical tubes with exception of filament requirements, VT List, and much more!! ONLY \$2,00 POSTPAID!!!!!!

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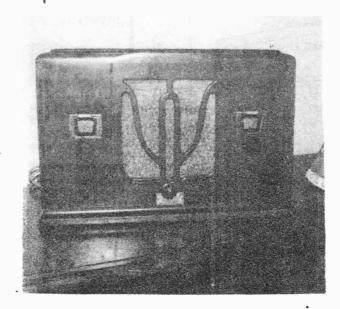
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This is the correct picture.
The picture that was here last month was not the right one.

I wrote to Dick Ransley of AWA to identify a table model Grebe model 63A (picture inclosed) and he tried but without success, that is to tell me the approximate year of manufacture. He thought you might out through

THE HORN SPEAKER. It intriques me because Grebe's workmanship was so good along with quality, but this set is badly put together, but it still has the Grebe trademark and has a besutiful enclosure.

Les Raymer 5512 N. 71st Place Scottsdale AZ 85251

2,312

HAWKINS ELECTRICITY

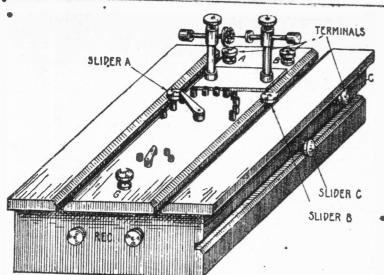


Fig. 3,162.—Marconi type D tuner. In adjusting, the wave length of the open circuit is varied by the sliders A and C. A closed oscillatory circuit is variably bridged around one of these coils, the inductance of which is varied by means of the sliding contact B. This circuit includes a carborundum crystal and a fixed condenser connected in series, a potentiometer and battery and the telephone receivers. When electric waves are brought to this tuner by throwing up the aericl switch the oscillations traverse these coils. Those produced in the second coil set up magnetic lines of force which interlink and cut through that part of the inductance included in the closed oscillatory circuit and pass through the detector, and being alternating in nature, surge through the condenser. Very interesting experiments have been made with the type D tuner, some of which will be noted here. If the A sliding contact be pushed up and off the open end of the first inductance one end of the loop aerial will be opened. Now the antenna would appear to have a very long wave length due to the fact that the linear length of the antenna is twice what it was before. But while the action of the loop aerial is not thoroughly understood, tests have shown that it has none of the characteristics of the ordinary plain aerial. Comparative tests were made when the antenna sliders A and C were on the inductance and when the A slider was pushed off, with the following results: With both the sliding contacts close to the open ends of the tuning coils, a wave length reading of 875 meters was taken. By pushing the A slider off the first coil, leaving the loop antenna connected only at one end like an ordinary plain aerial, a wave length reading of 930 meters was taken. Thus, by disconnecting one side of the loop, an increase of only 55 meters was taken. Thus, by disconnecting one side of the loop, an increase of only 55 meters was taken. The reason for such a slight increase is due only to the fact that the antenna doubles back on itself and the open

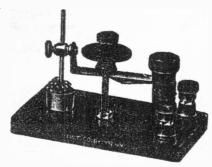
WIRELESS TELEGRAPHY

2,315

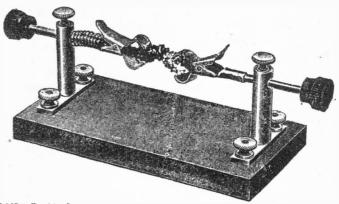
just mentioned are the only forms used commercially which require local battery current to operate them.

Galena is very sensitive when a clamped piece is touched by a thin copper wire, and thus completes the circuit.

Silicon is a sensitive detector and does not lose its adjustment easily. "Perikon" is the commercial name for a detector much used by the



3,186.—Crystal detector with double adjustment. This instrument is particularly designed to readily allow the delicate adjustment of any crystal or mineral. The very finest micrometer adjustment can be had by simply turning the hard rubber knob. It has two adjustments, one by means of the sharply pointed rod which can be lifted up or down and the other by the knob.

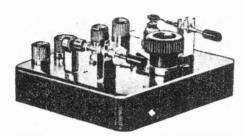


*** BG. 3,167.—Bouble Crystal detector. Two crystals in contact of the form a very sensitive detector, especially if one be an inactive substance and the other sensitive. This is the feature of the "perikon" detector. Carbon and carborundum may be used in this detector stand.

TYPE DB CRYSTAL DETECTOR, STYLE NO. 307216

IN the base of this detector what is known as I a blocking condenser is connected across the telephone terminals, thus making a very compact and complete unit.

The two types of detectors used on this unit are what is known as the "Pressure" type and the "Cat Whisker" type. In the former two selected minerals are held in pressed contact with each other. In the second type but a single with each other. In the second type but a single crystal is used, the adjustment being made by means of a fine wire which may be moved about the crystal to locate sensitive spots.



Westinghouse Supersensitive Crystal Detector Model DB . Dimensions: 4½ in. x 4½ in. x 2 in.

Weights: Net, 1 lb.; Shipping, 1½ lbs.

Spare Crystals (Pressure Type) Model DE, Spare Crystals (Cat Whisker) Model DD,

Note: Crystal Detector, type DB, may be very satisfactorily employed with any standard receiving outfit and it has been specially designed for use with the type RA Tuner, described in the first part of this book.

Radio Enters the Home, R. C. A., 1922

BURNDEPT Crystal Detector

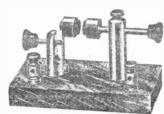
(Prov. Patent No. 23937/23)



THIS unusually efficient crystal detector will appeal to all users owing to the ease and certainty with which adjustments are made. Instead of "pushing and pulling" to get best signal strength, just rotate the ebonite handle to obtain micrometer screw adjustment of the gold cat whicher. All parts of the gratter are the screw adjustment of the gold cat whisker. All parts of the crystal can be explored, and the cat whisker stops just where you put it. The crystal is the new BURNDEPT Synthetic, and is sensitive all over; all working parts are enclosed in a glass tube, and can be assembled (without tools) right or left-handed as desired.

A BURNDEPT "Quality" component of real instrument finish.

- No. 215. Crystal Detector Assembly, for mounting on panel, and BURNDEPT Synthetic Crystal in special cup: packed in carton with accurate panel drilling template
- No. 216. Crystal Detector complete as above, but mounted on engraved ebonite panel, fitted with lacquered terminals, the whole on polished walnut base ready for use
- No. 217. Carton of spare parts for the above. Each carton contains 3 BURNDEPT Synthetic Crystals mounted in cups, 3 Gold Cat Whiskers mounted in brass adaptors, and I spare Glass Tube
- No. 218. Carton containing two unmounted BURNDEPT Synthetic Crystals
- No. 219. Carton containing three Crystal Cups to fit above Detector, together with a sufficient quantity of Wood's Metal



CARBORUNDUM DETECTOR, UNITED WIRELESS TYPE.

Carborundum is very satisfactory for use as a detector, as it is not affected by a heavy discharge when sending. This type of detector has been used for a number of years in the commercial stations of The United Wireless Company, and has proven itself to be the best. It consists of two large nickel plated standards, carrying carbon buttons, between which the crystal is set. The distance between the buttons is adjusted so that any size crystal may be accommodated. The adjusting screws are fitted with hard rubber heads. All metal parts are nickeled, and the base is of polished marble. This is a very excellent type of detector, and used by one of the foremet wireless companies in the United States is sufficient evidence of its worth. Crystals not supplied with detector.

Sociation

Carborundum

Detector**

Sociation

Carborundum

Detector**

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Carborundum

Detector**

**3.00

too late for insertion in catalog.)
No. 77X92. Audion Detector...... .. . \$4.00. Postage 25c

CELEBRATED FERRON DETECTOR. (Improved Type)



and will usually retain its adjustment for several weeks without attention. The users of Electrolytic and other styles of detectors will appreciate this point.

"Ferron" is a metallic crystal, and is held in a nickeled cup, mounted on the detector stand. An exceedingly fine adjustment of pressure is easily obtained by means of the triple spring, operated by the haard rubber knob. All the metal parts are nickel plated on brass, and the base is of polished Italian dove marble, measuring 5½ by 3 inches.

This detector operates best without either potentiometer or battery.

Our files are full of voluntary testimonials from enthusiastic operators throughout this country, Canada and foreign countries, recording the excellent results obtained with this most admirable detector.

The following letter was voluntarily written by an operator on one of the steamships lying at the docks at Port Arthur, Texas. He was using the Ferron detector in connection with instruments similar to those in our No. 60X40 receiving set:

"The responder (Ferron detector) is a peach. With it I copied the "City of Memphis," 765 miles; B. N. Boston, 550 miles; New York, N. Y., 1,656 miles, and also Manhattan Beach, while lying here at the dock. How is that for long distances, and over land, too?"

The same operator wrote later as follows:

"My profound felicitations: your detector is certainly a bird, and as the president would say, it has all others done to a frazsle. While in Baverly, Mass., I tested it out with a silicon, and I could get P. C. (35 miles) as loud as I could P. G. (15 miles) on the other, etc., etc."

The following clipping taken from the Toledo News-Bee shows the results Elmer Lamb, a local amateur, has been able to get with the detector. Mr. Lamb is now the wireless operator on one of the steamers on the Great Lakes. The distance from Toledo to Atlantic City is about 700 miles. Mr. Lamb was using our No. 60X39A receiving set with a 2000-ohm head set:

"Kemarkable Feat For Wireless Boy."

"Kemarkable Feat For Wireless Boy.
"With a wireless station that cost him just \$19, Elmer Lamb, an 18-year Toledo boy, living on Erie near Galena street, on Friday nicked up the U. W. Co.'s 2. K. W. station at Atlantic City, N. J., and a few minutes later picked

The J. J. Duck Co., Catalog No. 6, 1913

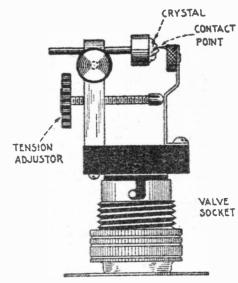


Fig. 163—Carborundum Crystal Holder to Fit Fleming Valve Socket.

English, 1921

Section II

STATION No. V

A Complete Station with Unlimited Possibilities

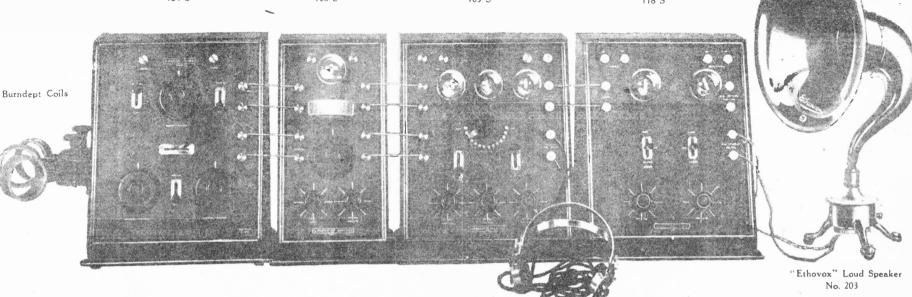
Will operate twelve Loud Speakers

Mk IV Tuner

H.F. Amplifier, Mk.

Ultra III Receiver

Power Amplifier



WE illustrate the finest and most complete station offered to the VV public. It is sufficiently powerful to actuate up to twelve Loud Speakers, and, under favourable circumstances, it has received American

Broadcast on a Loud Speaker.
No. 124 S. Burndept Tuner, Mark IV.
No. 108 S. Burndept H.F. Amplifier, Mark I.
No. 103 S. Burndept Ultra III Receiver

BURNDEPT Power Amplifier, Mark III Complete Set of 13 BURNDEPT Coils No. 118 S.

No. 184. No. 162. No. 168.

No. 152. 2 Accumulators, 75 amp. hrs. (actual)

H.T. Battery, in case, 75 volts (large) H.T. Battery, in case, 120–180 volts (large) "Ethovox" Loud Speaker, 120 ohms BURNDEPT Aerial Equipment No. 178.

No. 412. No. 203.

No. 420. No. 233. BURNDEPT Aerial Safety Switch

No. 474. 6 yds. Twin Flexible 40 '36

3 yds. Twin Flexible 70/36

Burndert Public Address Unit (optional) No. 475. No. 129.

No. 611. Hand Microphone

BURNDEPT LIMITED

MANUFACTURERS OF WIRELESS APPARATUS Head Office: ALDINE HOUSE, BEDFORD STREET, STRAND, W.Q.

English, 1924

BURNDEPT LIMITED

MANUFACTURERS OF WIRELESS APPARATUS Sactories: ANRIAL AND NASTHOR WORKS, BLACKHEATH, LONDON, B.E. 2

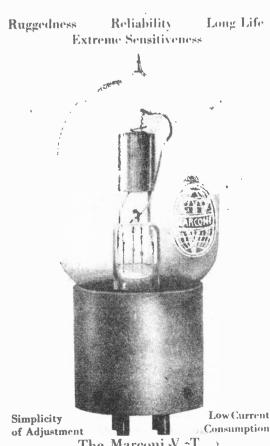
The Marconi V. T.

THREE-ELECTRODE OSCILLATION VALVE OR AUDION

VALVE OR AUDION

THE remarkable distances over which wireless signals are now transmitted may be attributed in a large measure to the amplifying properties of the vacuum tube. Although continent-to-continent wireless communication has been established with oscillation detectors of lesser degrees of sensitiveness, the Marconi V. T. (three-electrode valve) permits the same distances to be covered with smaller amounts of power. High power stations often employ several hundred kilowatts of electrical energy, whereas the experimental station is required to operate on a restricted wave length and with the relatively small antenna current of amateur transmitters. A sensitive oscillation detector such as the Marconi V. T. is therefore an esse tial to communication between low power mateur wireless stations; in fact, this ultra-sensitive oscillation detector is absolutely neces by to bring the signals up to the point of au ity when receiving over great distances.

Amateur wireless stations using power inputs of ½ to ¾ kw. and operating at the wave length of 200 meters, have established wireless communication with similar stations



The Marconi N.T. > Oscillation Detector

mf

Marconi Wireless Telegraph Company of America, 1920

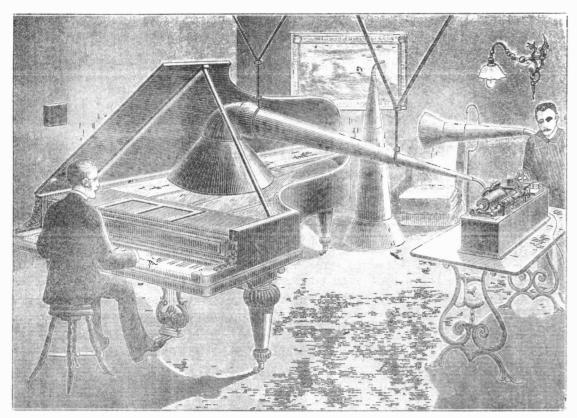


Fig. 1.-APPARATUS FOR REGISTERING PIANO MUSIC BY THE PHONOGRAPH.

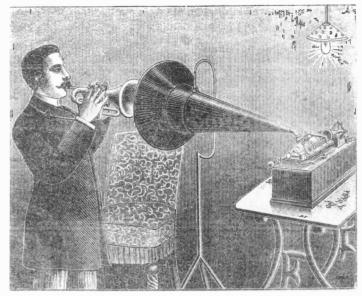


Fig. 2.-REGISTRATION OF A CORNET SOLO BY THE PHONOGRAPH.

Is Nature, 1880

Club News

I received your renewal notice here yesterday, stating that my subscription to "The Horn Speaker has expired. Thank you for letting me know. I want to take this means to congratulate you for the publication of a fine paper. It has a most excellent coverage of antique phonographs as well as radio receiving equipment. We are holding our annual -Radio Club meeting on the last Sunday of this month. The annual meeting of The Omaha Council Bluffs Radio Club will be hosted by Mr. Arthur Trauffer, Curator of the Doctor Lee deForest Memorial Museum, and Mr. Stephen Meyerman. The meeting will be held at the upstairs museum of Stephen Meyerman, 152-1/2 West Broadway, Council Bluffs, Iows. Members are urged to bring any antique wireless or phonograph equipment which they may want to swap.

My Sincerest regards, Howard C. Bergstrom 5142 Grant Street Omaha NB 68104

10-21-78 LETTERS

FOR SALE: Victor VV-VI: works, excellent appearance, \$90.00, shipping. From Tinfoil to Stereo, brand new (Sage) \$9.00 pmd. Evolution of the Phonograph, six part serial (November 1955 thru May 1956 Radio News), complete, \$20.00 ppd. Greg Dockter, 2519 Ave. C, Bismarck, N. Dak. 58501.

Classified ad rate: 6¢ per: word. Photo ads: \$2.00 extra.

Deadline: 20th of the preceding month.

SPECIAL PHOTO ADS will be repeated at no extra charge up to 3 times unless you cancel.



FOR SALE: Gilfillan Peter Pan cathedral \$275. or best offer. Have many more old radios, send \$1. for list. Chuck, 925 Starlite, Grants Pass, Oregon 97526. Ph: 503 476-1078.

ATWATER KENT REPLICAS Bread Board switches - \$10.00, front plates for variometer, variocoupler, and Tll tuners - \$8.50. AK thumb nuts, SASE for sample. Replicas of any dial or knob. WDll or UV99 adaptor - \$5.50, 2 for \$10.00pp. K. Parry, 17557 Horace, Granada Hills, CA 91344.





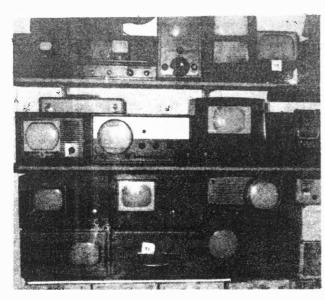
FOR SALE: Brown British horn cira 1926. Unusually small size (12 inches tall, 7 inch bell). Excellent condition, working. \$115.00 ppd. Greg Dockter, 2519 Ave. C, Bismarck, N. Dak. 58501.

Dear Jim:

Check for \$5.50 attached. Its a pleasure. Too bad about Jim Fred's Antique Radio Topics. As a publisher, wish I could think of a way to boost circulation for you guys.

That's what keeps you alive. Cheers and 73's George Kitchen 137 New Bridge Rd. New Milford. N.J. 07646 EDITOR...thanks for the kind words about Jim Fred and us.

FOR SALE OR TRADE



OLD TELEVISIONS: Three inch Pilots, 7" Teletone, 7" Sentinel, 8" RCA, 7" Emerson, 7" Hallicraftors, 7" Philco, 7" Raytheon/Belmont, 7" Admiral, also 7" Motorola and others. Have Zenith Transoceanic radio. Send \$1.00 for list. Charles, 925 Starlite, Grants Pass, Oregon 97526. Call Charles 503 476-1078.

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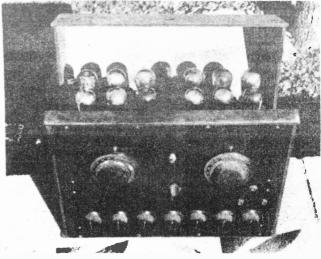
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FOR SALE: Please take note if: You are restoring a prized antique battery radio. We can supply ten conductor cable housed in an original type brown cloth knitted sheath to replace your torn and tattered battery cable. Use as many conductors as required and then discord the rest. The price is 75¢/foot plus shipping. Write: Olde Tyme Radio Co., 2445 Lyttonsville Rd., Silver Spring MD 20910.



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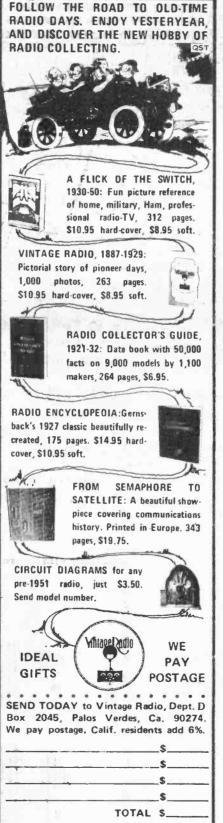
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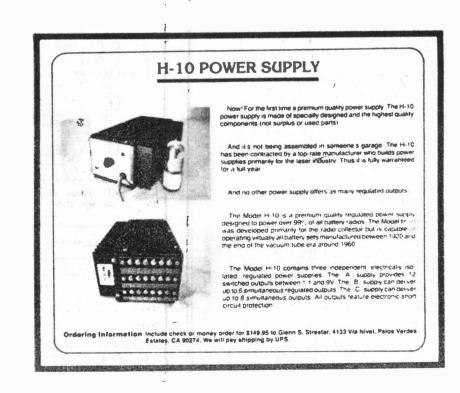
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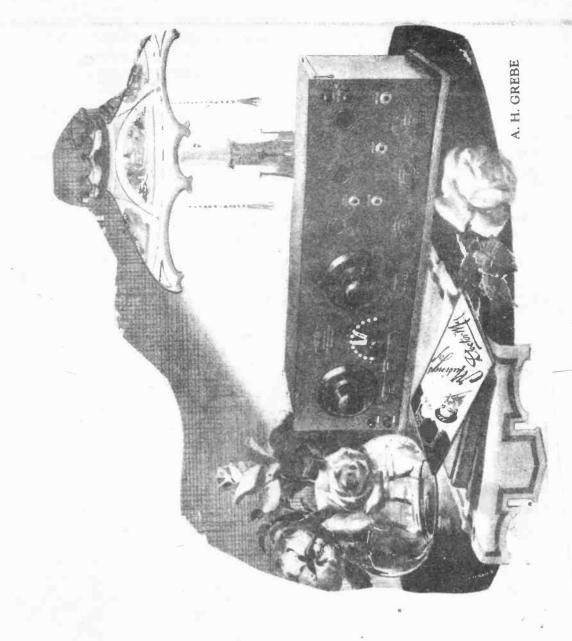
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