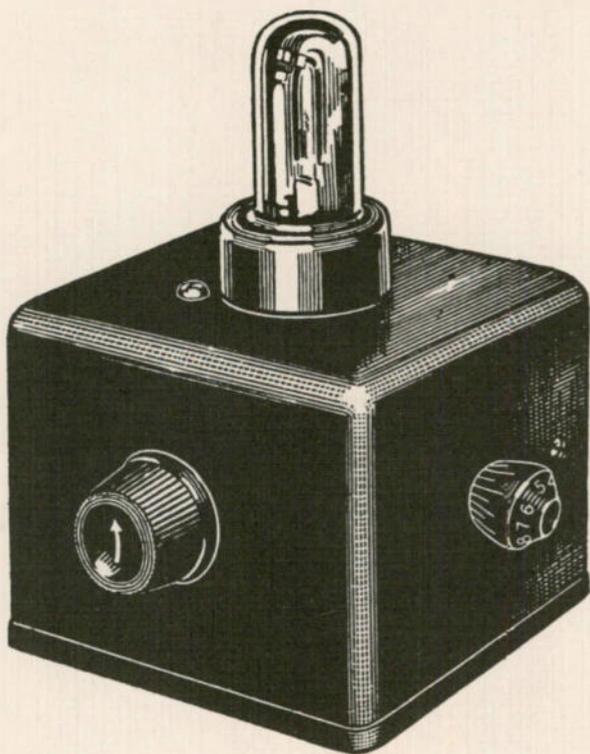

ANTIQUE RADIO CLASSIFIED



VOLUME 4

SEPTEMBER 1987

NUMBER 9



The **CROSLEY** *Pup*

THE NATIONAL PUBLICATION FOR BUYERS AND SELLERS
OF OLD RADIOS AND RELATED ITEMS - PUBLISHED MONTHLY

ANTIQUE RADIO CLASSIFIED

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Purpose

Antique Radio Classified is published for people involved in the radio collecting hobby. Its purpose is to stimulate growth of the hobby through the buying, selling and trading of radios and related items, and to provide a monthly forum for the interchange of ideas and information.

Writing to Antique Radio Classified

All correspondence should be sent to:

Antique Radio Classified
P.O. Box 2, Carlisle, MA 01741.

Your ads, renewals, letters, etc. can be handled faster and more efficiently if (1) each is on a separate page or card and (2) your name, address and SUB# is written on each.

Unfortunately, A.R.C. is not staffed to answer letters with questions about antique radios or requests for advice. However, A.R.C. does solicit letters of interest to its readers and will publish them as space permits.

Guarantee

You may cancel your subscription at any time and receive a pro-rated refund of that part of your subscription not yet mailed. If errors to ads are made by A.R.C., the ad will be run in the next available issue, free, upon request.

Ethics

All persons involved in the production of A.R.C. are not to act on any information in the magazine until they receive their regular subscription copy in the mail.

Display and Business Card Ads - Details and Rates

The deadline for artwork and payment for display and business card ads is the first of the month. Payment for continuation of ads also should be received by this date to insure the continuation of your ad. Late ads will be run only if space and time permits.

As artwork is reduced to 63% in the printing process, originals should be the artwork size listed below. Ads should be typeset or typed neatly with a carbon ribbon. If you want us to prepare your ad, include the optional cost for layout listed below. Minor changes will be made to ads sent in or already running for a \$2.00 charge.

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	H x W (inches)	H x W (inches)	H x W (inches)	1-month	3-months		
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1/2 H	5 1/4 x 7 1/2	3 5/16 x 4 3/4	3 5/16 x 4 3/4	22.50	60.75	10.00	
1/2 V	10 1/2 x 3 9/16	6 5/8 x 2 1/4	6 5/8 x 2 1/4	22.50	60.75	10.00	
1/4	5 1/4 x 3 9/16	3 5/16 x 2 1/4	3 5/16 x 2 1/4	11.25	30.37	5.00	
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Photos should be at an 85 line screen. When A.R.C. is preparing the ad, add \$5.00 per photo. Write A.R.C. with your ad ideas, and we will be happy to give you an estimate as to how much the ad will cost and/or recommend an ad size, etc. All items must be described fairly; reproductions, reprints and not-original items must be identified as such. Advertisers agree to respond promptly to inquiries and orders, and to resolve problems promptly if the buyer is not satisfied.

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Each subscriber is entitled to one 20-word classified ad free of charge each issue; multiple insertions of the same ad are limited to two consecutive months. Boxed-classified ads, display ads and business card ads do not have the multiple insertion limitation. Display ad details appear below; classified ad details are on the inside back cover.

Payment

All payments must be made in U.S. funds; checks drawn on a U.S. bank or money orders are preferred. Make check out to "A.R.C." U.S. stamps or cash are OK for small amounts. Canadian payers may send a Canadian check in U.S. funds, but must add \$1.00 (U.S.) for conversion costs. Traveler's checks made out to A.R.C. are acceptable also. On request, subscriptions will be prorated to amount sent, provided the term is at least one year.

Please send in full payment with your order or ad. A.R.C. does not carry accounts; all subscriptions, ads, etc. must be prepaid.

Submission of Material

Antique Radio Classified welcomes and solicits any information that pertains or relates to the radio collecting hobby. This may include material such as articles, upcoming radio events, meetings, radio books and publication reviews, new radio clubs and organizations, radio auctions and price reports, sources of old radio and restoration supplies, and any other material that would be of interest to the hobby. All material submitted should be typewritten and verified for accuracy. Unless prior arrangements are made, all submitted materials become the property of Antique Radio Classified and will not be returned.

Mailing of Antique Radio Classified

A.R.C. is available by subscription in the U.S. either by First Class or Second Class mail. First Class copies usually are received by the first of the month; copies by Second Class mail, by the tenth. The mailing of First Class copies is staggered, with those living farthest away mailed on the first day, and local copies mailed the last day. All non-U.S. copies are mailed on the first day. All Second Class copies are mailed on the last day. Mailing is usually completed by the 25th of the month.

Change of Address

Please notify us 4 weeks in advance of a change of address in order to receive uninterrupted copies of A.R.C. Please include your old address, SUB# and expiration date along with your new address. Note when the new address is effective. Temporary address changes can be made also.

Fine Print

The publisher is not responsible for any buying and selling transactions incurred, or for any other use of the contents of this publication.

Antique Radio Classified subscription and ad rates are subject to change, as well as frequency of publication, content and size.



EDITOR'S COMMENTS

The **BIG EVENT** of the year is here – the **Antique Wireless Association's Annual Conference** in Canandaigua, New York. September 23 to 27, 1987, are the dates for this five-day, world's-largest meet devoted entirely to antique radio. The meet is being held at the Sheraton Inn in Canandaigua, New York (near Rochester). Over 800 people attended last year and over 200 flea market spaces were sold. Every year this A.W.A. meet gets bigger.

The start of the meet – Wednesday noon – is the best time to begin your flea market browsing. Thursday is also a good flea market day. The equipment auction is Friday afternoon, with more good flea market activity on Saturday. The conference ends Saturday night with the grand banquet. Other activities include a vacuum tube auction, a ham equipment auction, talks, a Friday night banquet, antique equipment demonstrations and an old equipment contest.

Lodging will be hard to find if you are just now making plans to attend; as of August 10th, a few motel rooms were still available in the area (the Sheraton was full). See the advertisement on page 17 and the listing on the *Coming Radio Events* page for more information.

Don't feel too bad if you cannot make it to this or other meets. A lot of sets from these meets will be passing through the A.R.C. classified ads over the next few months.

Antique Radio Classified begins its fourth year with this September issue. This month marks the third anniversary of A.R.C.'s first regular issue, September 1984. Today, over two thousand subscribers have made A.R.C. the leading antique radio monthly publication.

Featured in this issue is Alan Douglas' article on the Freed-Eisemann Corporation. It is the first of several articles based on Alan's upcoming three-volume set on radio in the twenties. Alan expects the first volume to be out this fall.

Also in this issue is Jim Kreuzer's article on the Marconi Multiple Tuner and its inventor, C. S. Franklin. Jim's Marconi Multiple Tuner was shown in full color on A.R.C.'s June cover; the issue also contained an article on its restoration.

Dave Crocker and Richard Arnold have written about the Crosley Pup, the cover feature of this issue. Henry Rogers in his *Antique Radio Specifications* describes the Kennedy 281 Receiver and 521 Amplifier. A short report is included on the Ira Witthaus auction.

Completing the issue is a *Club Spotlight* on the Antique Wireless Association, and a book review by Dick Brewster of Peter Yanczer's *The Mechanics of Mechanical Television*. Sorry, there is no room for the *Photo Review* this month; it will

reappear next month.

There are lots of ads this month, over 200, plus several extra full page ads. Four pages were added for this overflow.

Renewals have been pouring in! Thanks for those already received and thanks for all those SUB#'s and expiration dates; they really speed the processing of your renewals. Important! If you have not yet renewed and your expiration date is AUG87 or before, renew today so you will not miss any issues.

Antique Radio Power Supplies! That is the topic of a 24-page (WOW!) article by Larry Babcock in the Summer '87 issue of the *NFWA Chronicle*, the journal of the Niagara Frontier Wireless Association. The article is complete with tables, graphs, formulas and schematics, and must include more than you ever wanted to know about power supplies. I highly recommend this article to you, and also membership in NFWA. Dues are only \$6.00, and back issues are \$1.00. Write to NFWA, Dick Schamberger, Box 68, Central Park Station, Buffalo, NY 14215.

Recently, I attended the A.W.A. regional meet in Rhode Island at the Museum of Wireless and Steam. The meet was a real success with over 1000 attending the combined radio/steam meet.

While this issue was being printed, I was at Radiofest in Elgin, Illinois. This major meet always draws a big turnout. In September, I will be at the A.W.A. Conference in Canandaigua, New York. If you are able to attend, look me up!

And don't forget, if your subscription is expiring, now is the time to renew!



John V. Terrey

ON THE COVER

The cover this month features the **Crosley Pup**. Introduced in 1925, the \$9.75 Pup was the first inexpensive and commonly available radio. A set of headphones cost an extra \$3.00. See Dave Crocker's and Richard Arnold's article for more information on this set.

From a Crosley ad: "Engineered and built to the strictest standards of Crosley quality, the genuine long distance set can be offered at the phenomenal price of \$9.75 only because of its simplicity and Crosley's tremendous manufacturing facilities."

"It will be talked about. Its performance will be marvelled at. It is so tiny – so compact and yet so efficient that it bids well to be the radio sensation of 1926. It is going to introduce radio to thousands."

RADIO IN THE TWENTIES

BY ALAN DOUGLAS, P.O. BOX 225, POCASSET, MA 02559

FREED-EISEMANN AND THE NEUTRODYNE

Joseph David Roth Freed was born in New York City on October 18, 1897. After graduating from the College of the City of New York where he had studied radio under Dr. Alfred Goldsmith, Freed became, in 1917, an Expert Radio Aide at the Radio Test Shop, Washington Navy Yard (Alan Hazeltine was consultant here); he left in 1918 to join Emil Simon. From early 1919 to mid-1921, he was designing engineer and assistant chief engineer with the Wireless Improvement Co. In 1921, Freed organized the Radio Manufacturing Co.

Freed's first product – a crystal set outfit named the Marvel, shown in Figure 1 – sold like hotcakes, so fast that within a few months he needed capital to expand. In January 1922, having been introduced by a mutual friend, he and businessman Alexander Eisemann incorporated the Freed-Eisemann Radio Corp. Marvel crystal set sales continued to boom. When the company was short of headphones, Freed's associate Victor Greiff persuaded his former partner Hugo Cohn to make them; Cohn founded the Radio Receptor Co. in January as a result. (Cohn and his company both outlived the Freed-Eisemann Radio Corp. by many decades.)

Radio World of July 1, 1922, profiled Freed as a "captain of industry"; this was stretching a point as his business was already declining severely. After a boom in radio sales, makers of crystal sets had a particular problem, aside from the bust when radio stopped selling, causing scores of small companies to go under. Since the Wireless Specialty Apparatus Co.'s patent position in crystal technology was its only toehold in the "radio group" with RCA, GE, AT&T, and Westinghouse, Wireless advertised its status in June 1922, claiming that any other company making or selling crystal detectors was liable for patent infringement and damages (See box on following page). This had the effect desired by Wireless Specialty of scaring off Freed-Eisemann's dealers, and began, incidentally, a series of events that dramatically changed the whole radio industry.

Freed-Eisemann's advertising manager was quoted in August 1922: "We have had in our employ here 138 operatives. Conditions are so bad that we have reduced the working crew to 26. There is nothing doing here. I only come around an hour or two a day myself. We are trying only to sell our radio apparatus to the radio departments of dry goods stores, anyway, for we feel that from such customers we have a good chance to collect our money. We cannot collect our bills from radio retailers or jobbers. If we try to dun them, on long-standing accounts, they promptly assure us that



Figure 1. Freed-Eisemann Marvel Crystal Set. (Collection of Emmett Smith.)

they are perfectly willing to return our radio manufactures as sold to them – for the goods didn't sell. I don't know what is going to happen in radio; there is no action around here. We can't even sell our Marvel cheap sets."

Freed-Eisemann went to court to enjoin Wireless Specialty from publishing these notices and to sue for damages of \$150,000. To aid in these suits the company gathered a group of other New York crystal-set makers together into the Independent Radio Manufacturers, Inc. (IRM), retaining the prominent law firm of Pennie, Davis, Marvin and Edmonds (PDME). In September 1922, the court did grant the injunction sought by Freed-Eisemann which restrained Wireless from continuing its advertising.

Through its PDME lawyer, Walter C. Russ, the Independent Radio group learned of an invention of Prof. Louis A. Hazeltine which was then being processed through the Patent Office by another young PDME member, Willis H. Taylor, Jr. Hazeltine's invention was a way of stabilizing a tuned radio-frequency amplifier which tends to become unstable and oscillate if not neutralized by some means. If Hazeltine's new circuit could be made to work commercially, then the IRM members could abandon crystal sets and the associ-

“Warning to Patent Infringers”

is the headline on the advertisement placed by the Wireless Specialty Apparatus Company in the July 1922 issue of Radio News. The advertisement continues:

“Various types of crystal detectors, renewals thereof, and crystal detector radiophone receiving sets now being offered for sale employ the inventions of one or several of the following United States patents (commonly referred to as the Pickard patents) the property of the Wireless Specialty Apparatus Company.”

After listing 21 patent numbers, the ad continues: *“The above patents cover, among other things, the most efficient circuit arrangement of apparatus commonly used in crystal detector radiophone sets, various kinds of crystal members, means for mounting the crystals and holding the mounting, special forms of contacting conductors for the crystals, and mechanism permitting the user’s selection of contact points of the contacting conductor on the crystals.....”*

“The Wireless Specialty Apparatus Company purposes to prosecute, vigorously, all infringers of its patents and, therefore, those manufacturers, distributors, jobbers and dealers who have not been authorized as yet are warned to cease the manufacturer or the sale or distribution of crystal detectors, renewals thereof, or crystal detector radiophone receiving sets or any other radio devices which infringe these patents.”

“Unauthorized distributing or selling, wholly independent of manufacturing, is just as much an infringement”

“For their own protection, the distributors, jobbers and dealers should demand a guarantee from the manufacturer from whom they purchase radio equipment holding them harmless in case of damage suits arising through their distribution and sale of radio apparatus which infringes the above-mentioned patents.”

WIRELESS SPECIALTY APPARATUS COMPANY

Boston, Mass.

Established 1907

U.S.A.

ated problems with Wireless Specialty, avoid the regenerative circuit now controlled by Westinghouse, and take up the new “Neutrodyne,” so named by Taylor.

Hazeltine and his assistant John F. Dreyer, Jr. occupied a lab at the Stevens Institute of Technology. Freed built a prototype from Hazeltine’s notes and took it to the lab where, after some attention from Dreyer, it worked.

Three IRM members lost no time getting into production. Frank A. D. Andrea (FADA) was first, with a reflexed four-tube design shown at the third annual Radio Convention in New York, March 1 -

3, 1923. Freed-Eisemann’s model, the NR-5, see Figure 2, was demonstrated by Hazeltine at the regular Radio Club of America meeting on March 2, where it created quite a stir. The Gard Corp. started advertising its reflexed model a month later, and production began in September. Freed-Eisemann and FADA also sold kits with the key Neutrodyne components.

Freed-Eisemann did rather well in 1923; sales practically quadrupled in succeeding quarters (wholesale figures):

(Continued on following page)

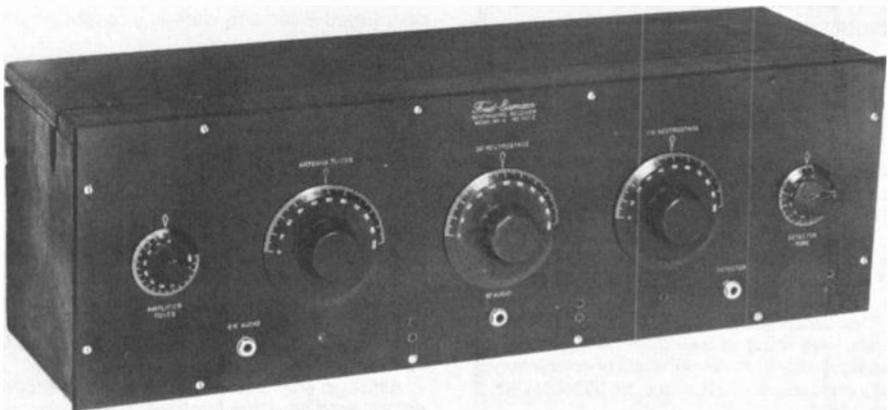


Figure 2. Freed-Eisemann NR-5 radio receiver.

The set was advertised as “squealless”; no shrieks and whistles; no longer would choruses of chirping birdies pipe in during the opera or emerge during the Sunday sermon. The “neutrodyne” cir-

cuit divorces radio frequency amplification from radio regeneration.

The receiver uses two stages of radio frequency amplification, detector, and two stages of audio frequency amplification.

(Freed-Eisemann, continued)

Apr-June 1923	\$42,000
July-Sep 1923	\$115,000
Oct-Dec 1923	\$687,000
Jan-Mar 1924	\$2,000,000
Jan-Dec 1924 (1 year)	\$4,507,130

At the end of 1923 the company moved into a new factory of 50,000 square feet in the Sperry Building in Brooklyn. It also turned against PDME, bringing suit against its former benefactors and refusing to pay royalties to Hazeltine. Freed-Eisemann claimed that PDME's lawyers were financially interested in the Hazeltine Corp. at the same time that they were advising their client Freed-Eisemann to sign the royalty agreement. Hazeltine in turn sued Freed-Eisemann for breach of contract. Freed-Eisemann was hoping to have its royalties reduced, from 6% of the wholesale receiver price, to 6% of the neutralizing condenser alone, and offered Hazeltine \$30,000 a year. Freed-Eisemann eventually lost, and reluctantly went back to paying the full royalty amount.

1924 sales were also excellent, enough to attract the attention of outside investors, who bought majority stock control by April 1925, reportedly for \$2.5 million. The same group, Hugh Prichitt and his two brothers-in-law (named Howard), also controlled the Ware and Dubilier companies. Prichitt was a "boy wonder" who owned a Stock Exchange seat and controlled or had a hand in such diverse enterprises as Caddo Oil, Ajax Rubber, even Duz soap flakes. But his timing was unfortunate.

Not wanting to tamper with a successful formula, Freed-Eisemann brought out its NR6 in October 1924. It was nearly identical to the NR5 and sported the same \$150 price. But Charles Freshman had introduced his Masterpiece in August for \$60, and Atwater Kent, his \$100 Model 20 Compact. Against them, Freed-Eisemann didn't stand a chance. Sales plummeted; Prichitt



Figure 3. Freed-Eisemann Portable Receiver "with Genuine WD-12 tube in solid Mahogany cabinet."

This cut from the N.Y. Radio Sun-Globe, Sept. 8, 1923, is the best illustration the author has of this set and has been extensively retouched by A.R.C. so that reproduction would be improved (mistakes may have been introduced in retouching). Any additional information, a photo, or correspondence with an owner of the set would be appreciated.

suffered a mental breakdown as his overextended empire collapsed. (He died in 1928 at 44.)

The three Freeds (Joe, Arthur and Leo) and two Eisemanns (Alex and his father Emil) managed to buy back control of their company when its stock price hit bottom. However, it took several years for it to regain anything like its former glory ... just in time for the stock market crash and the depression. Freed-Eisemann went into receivership in December 1929.

Joe Freed then joined Warner Bros. which in May 1930 bought Brunswick; Brunswick had bought Bremer-Tully for a very high price in Dec. 1928. However, this venture fizzled when Warner Bros. discontinued radio production. Joseph Freed died of leukemia in 1941; Alexander Eisemann died in 1953. © 1987 Alan Douglas

This story, on the beginnings of Freed-Eisemann and of the Neutrodyne, is extracted from my forthcoming series of three books on radio manufacturing in the 1920's. The Freed-Eisemann chapter will appear in Volume 2, scheduled for 1988.

Although only a few Freed-Eisemann models are covered here, the book will picture every advertised model to December 1929.

Further information on the early Marvel models, and a Model 234 or similar portable, is solicited from readers. There is still plenty of time to revise this chapter before layout work on Volume 2 begins.

INDEPENDENT RADIO MANUFACTURERS

Incorporated
announce that the

HAZELTINE NEUTRODYNE CIRCUIT

is covered by U.S. Letters Patent No. 1,450,080 issued March 27, 1923, and patents pending and that the trademark NEUTRODYNE is registered in the U.S. Patent Office.

The exclusive rights under this patent and pending applications and the registered trademark NEUTRODYNE have been granted and are now vested in the Independent Radio Manufacturer Inc.

The Independent Radio Manufacturer Inc. hereby give notice of their intention to promptly and vigorously prosecute all direct or contributory infringements of Hazeltine NEUTRODYNE receivers ...

The Independent Radio Manufacturers did not waste any time protecting their NEUTRODYNE patent as the advertisement from which the above is excerpted appeared in the N.Y. Radio Globe on April 7, 1923.



ANTIQUE RADIO SPECIFICATIONS

CONTRIBUTED BY: HENRY ROGERS, P.O. BOX 501, MINDEN, NV 89423

ANTIQUE RADIO SPECIFICATIONS - This column provides the collector with specifications, both physical and electrical on individual radio sets. Performance is measured and operation evaluated giving collectors a relative guide to expected results. Comments and suggestions concerning the evaluated radio are welcomed as well as additional radios you would like to see. (*Henry Rogers*)

COLIN B. KENNEDY CO. MODEL 281/521

Early manufacturing of the Kennedy 281/521 took place in San Francisco; however, by late 1922 most sets were being assembled in St. Louis. Designed primarily for amateurs, the 281 is labeled a shortwave receiver. Selling initially for \$200, the price dropped to \$145 by the end of production.

The Model 281 receiver is a three-circuit Armstrong regenerative detector. The Model 521 amplifier is a two-stage, transformer-coupled unit. San Francisco 281 models have two adjustment knobs for the Primary Inductance along with a single antenna input. St. Louis models eliminated one inductance adjustment knob and installed two antenna inputs instead. (See specs. for additional variations.)

Performance of the 281/521 can be very good depending on the set-up. Best results were obtained by running about 19 volts on the plate of a UV-200. (Adjust the plate voltage for optimum sensitivity for the particular detector tube used.) As pure tungsten filaments are used in UV-200s, keep the filament voltage as low as possible. A disadvantage is that the set has no shielding and is very sensitive to body capacitance. Also, switching from longwave to shortwave on St. Louis models requires moving the antenna lead-in from post A-L (Antenna Longwave) to post A-S (Antenna Shortwave), in addition to changing the L-S switch (wavelength switch).

Best DX was KTWO from Casper, Wyo. and KOMO from Seattle, Wash. Several amateurs, mostly W6's from Calif., were copied on 160 meters also.

SPECIFICATIONS

	281	521
Height.....	7 1/2"	7 1/2"
Width.....	18"	8 1/2"
Depth.....	6 1/4"	6 1/4"
Weight.....	11 lbs.	5 lbs.

Frequency Coverage:

Long Wave.....495kHz to 840kHz
Short Wave.....680kHz to 2000kHz

Circuit:Three-circuit Armstrong regenerative detector using one type UV-200. 2-stage, transformer-coupled AF amplifier using two type UV-210.

Construction:

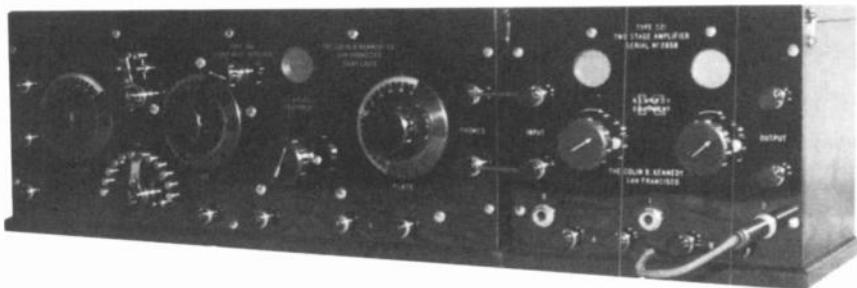
Mahogany cabinets with Formica panels. Dials on the 281 are black enamel with silver numbers; however, some sets also had silvered dials with black numbers.

Variations:

San Francisco (SF) models have: (1) Nickel plated binding posts. (2) 2 adjustments of the PRI inductance. (3) Plate potentiometer allowing adjustment of the voltage on the detector's plate. (4) Single antenna input.

St. Louis (SL) Models have: (1) Bakelite binding posts. (2) Single adjustment of PRI inductance. (3) No plate potentiometer - adjustment of detector plate voltage is external to the set. (4) Long Wave and Short Wave antenna inputs.

Note: There are sets which contain some of both SF and SL variations as Kennedy was constantly changing their design and assembly to keep up with the competition. The set shown is an example, a 521 with an SF panel but with SL bakelite binding posts.





CROSLLEY REVIEW

Contributed by DAVE CROCKER and RICHARD ARNOLD



CROSLLEY PUP

Editor's note: Two articles on the Crosley Pup were received within a few days of each other. Rather than presenting them separately, the two were combined by the editor into this single story.

Powel Crosley called it his "Sky Terrier." Canine mascots adorned its advertising. It was aimed at the youth market, and its price was a mere \$9.75 (25¢ cheaper than the lowest priced one-tube Kodak, the smallest radio yet on the market).

First advertised in August of 1925, the tiny radio was given the name of "Pup." It was Powel's idea of just what should have been available in 1921 when he unsuccessfully went looking for a "toy" radio set for his son's birthday...and one of the main reasons why Powel went into the radio business in the first place.

In 1925, the "Pup" was compared to a great American automobile; it was called the "Lizzie" of radio. Articles of the time also compared it to a cough drop - small enough to swallow by mistake, and to a speck of dust that the maid might sweep under the rug or out the back door.

The radio was well-built mechanically and electrically. The Pup, in reality, was nothing more than Crosley's highly successful Model 50, a one-tube

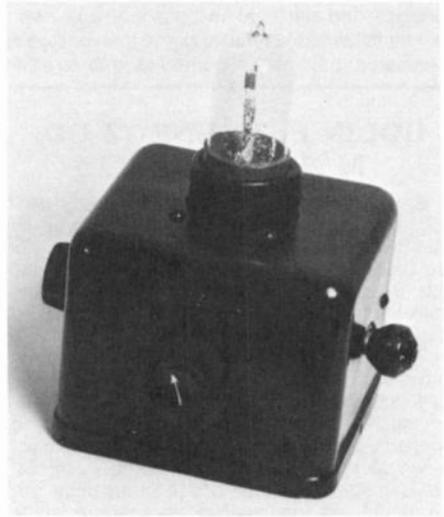


Figure 1. The Crosley Pup. (From the collection of Carl Boccock, Moore, Oklahoma.)

Armstrong regenerative receiver, crammed into the tight confines of a stamped metal can. The components are the same, except that space restrictions dictated the redesign of the "book" condenser, which was cam-operated, to operation by a knob connected to a fine-threaded screw acting on one of the plates of the "book" condenser. (The famous Crosley book tuning condenser was developed by Mr. Hugo Gemsbeck, the editor of *Radio News Magazine*.)

Also inside is a flat disk-shaped lattice grid coil that is also used as an antenna coil. The lattice tickler is moved by a sliding rod connected to a knob, common to large Crosley sets of that time

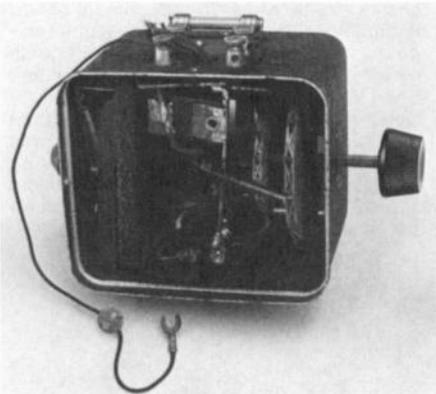


Figure 2. Interior view of the Pup. The book condenser is on the left, the rheostat on the bottom of the photo, and the coil assembly on the right. The Pup has a snap-in bottom cover with a paper label and four battery leads with tags and lugs. On the rear (top in the photo above) are the terminals for the antenna, ground, phones and mounting for a grid leak resistor.



Watch for the Crosley PUP!

"It's a Sky Terrier"

period; it has a standard Crosley rheostat and tube socket. The grid and bypass condenser are of the copper-foil and mica type.

When the user installed the recommended WD-12 tube and listened in on a good pair of phones (which were offered at \$3 extra), the reception was remarkably good. The Pup worked quite well and supposedly had excellent headphone volume on local stations; with the correct antenna at night-time, it could bring in stations 1,000 miles distant. Of course, this was with careful tuning, a lot of ear straining, and perhaps a whole lot of luck.

The Pup at \$9.75 was considered quite a bargain; it cost the same as a couple of theatre tickets. The Pup, one of the first inexpensive but reliable tube radios, was one of the few single tube sets to attach the tube on the top of the cabinet.

Despite the fact that many were produced, the demand for existing examples keeps its collector value high. Many antique radio collectors are not satisfied until an Atwater Kent breadboard and a Crosley Pup are in their collections.

Interesting to note is that the "Pup" name was reissued in 1933 to another bottom-of-the-line radio. The four-tube superhet receiver enclosed in

a metal case with a round speaker grill in the center was called the "New Pup," and its selling price was \$26.

(Dave Crocker's address is 6 Old Farm Road, Duxbury, MA 02332; Richard Arnold's, P.O. Box 275, Lone Grove, OK 73443.)

\$1,000 PRIZE CONTEST

A grand prize of \$1000 is offered to purchasers of the Crosley "Pup" for best report of results obtained over the period from September 1, 1925, to March 1, 1926, in addition to monthly prizes, including real live pedigreed puppies. Full details and entry blank in each set.

Figure 3. Announcement of a \$1000 prize contest in the July 27, 1925, Crosley Radio Weekly. The newsletter also told its distributors: "Crosley Pups are to be packed in cartons of 10 in each. So when you order just say 'Send me a litter of Pups.'"

IRA WITTHAUS AUCTION

On July 4, 1987, the Robert Merry Auction Co. of St. Louis, Mo. held an auction of items from the collection of Ira Withhaus. Also auctioned were numerous hand made scale models of farm machines from Mr. Withhaus's collection.

Included in the auction was the Vitus receiver, the subject of the article by Mr. Withhaus in the July 1987 A.R.C. It was only chance that the article appeared in A.R.C. just before the auction. There was controversy over the age of the Vitus receiver and it was withdrawn during the auction.

The prices realized at the auction follow. Many sets were refinished, other details on the condition of the items were not available for this listing.

AC Dayton XL25	\$55
Acme Reflex Model D	80
AK 10 breadboard	500
AK 20	90
AK 30	75
AK 35	55
AK 40	55
AK 57, steel console	110
Aladian Super 5, 5-tubes	100
Browning Drake, 2 sets	80 & 85
Brunswick, BR-200, 1924 radio/phono	290
Brunswick Phonograph	190
Crosley 4-29	125
Crosley 51	50
Crosley 51SD	70
Crosley 52S	85
Crosley 635B	80
Crosley RFL 75	100
Crosley Super Trirdyne	100
Crosley Trirdyne Special	80
FADA 192-A	90

Freed Eisemann NR5	80
Freshman Masterpiece, early	70
Freshman Masterpiece, late	110
GE G65, AC	55
Harmotone 5-tube TRF	75
Homebrews, 2 sets	70 & 80
Horns, misc	65 ea.
Juvenola crystal set	70
Kolster K20, AC, 1926 7-tube	75
Metrodyne 5-tube	90
Midwest 18-tube console	140
National NC200 & speaker	110
Paramount 249	80
Philmore Black Bird Crystal Set	60
Phonograph, Alma Talking Mach	160
Phonograph, Phonograph, Victor Model N	75
Phonograph, Standard Model A	280
Philco Safari TV	175
Pilot X304, tombstone	152
RCA Radiola 17	50
RCA Radiola 18	50
RCA Radiola 33	40
RCA Radiola IIIA, no tubes	65
RCA T80 tombstone	50
Reliodyne	75
S.W. 300	70
Silvertone wire recorder/phono/radio	160
Speakers, Cone & Cabinet	\$20 to \$65 ea.
Standard Model A Phonograph	280
Steinite 261	66
Steinite 488, AC console	80
Stromberg 328 (SW)	45
Travler Portable	120
Zenith 5R303	55
Box of Knobs and Dials	95

Thanks to Paul Chaney and Jerry Vanicek for this report.

The Marconi Multiple Tuner and Charles S. Franklin

BY JIM KREUZER, 6270 CLINTON ST., ELMA, NY 14059

Part 1

The Marconi Multiple Tuner

One of the most important breakthroughs in wireless was the development of the Marconi Multiple Tuner. This invention eliminated the need to tune the antenna with primitive coils (jiggers) and unwieldy switches. The selectivity desired for long distance communications was greatly enhanced.

The Multiple Tuner was the outcome of many years of experimental research at the Marconi Company by Mr. C. S. Franklin. Although he first developed the tuner in 1904, a patent was not actually applied for until 1907. Finally, the patent was awarded – patent #12,960, on June 4, 1907.

*The June 1987 issue of *Antique Radio Classified* contained an article by Art Albion on the restoration of the Multiple Tuner owned by the writer of this article, Jim Kreuzer. The restored tuner was featured in color on the cover of the June issue.*

This issue's article describes the historical development of the Marconi Multiple Tuner and presents a biography of the tuner's inventor.

The Marconi Multiple Tuner was built to withstand severe climate and rough usage; the tuner was a very solid instrument. It weighed 32 lbs., having dimensions of 8"H x 19"W x 9 1/2"D. It was electrically sound, utilizing an adjustable micrometer spark gap connected between the aerial and earth as protection against static discharges. The principle function was tuning the detector apparatus, including wavelengths from 500 to 8000 feet! This capability proved valuable in the measurement of wavelengths and estimation of the approximate distance of known stations.

Designed to serve as a companion to the famous "Maggie" or "Magnetic Detector," the Multiple Tuner was a true "state of the art" installation for shipboard and coastal stations. After many years of use, Maggie was replaced by the valve detector. Marconi operators were instructed on its application to the Multiple Tuner, and, after World War I, the Marconi Type 55 Valve Amplifier was

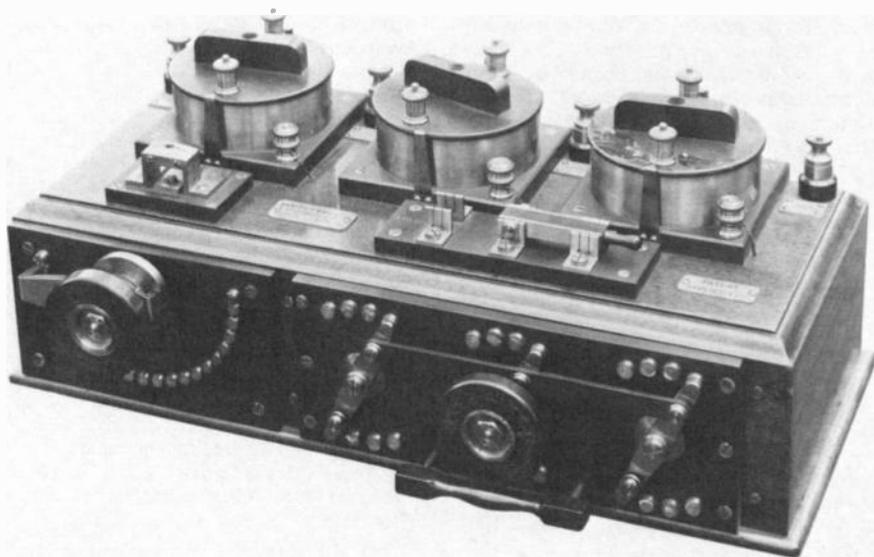


Figure 1. The Marconi Multiple Tuner.

The A.W.A. Museum obtained a Marconi Multiple Tuner from the Marconi Wireless Telegraph Co. at Chelmsford, England in the 1950's. The photograph above accompanied the tuner.

It is not certain whether the tuner in the A.W.A.

collection is the same as the one in the photograph.

© Marconi's Wireless Telegraph Co., Ltd.; used with the permission of Marconi's Wireless Telegraph Co., Ltd. and the Antique Wireless Association.

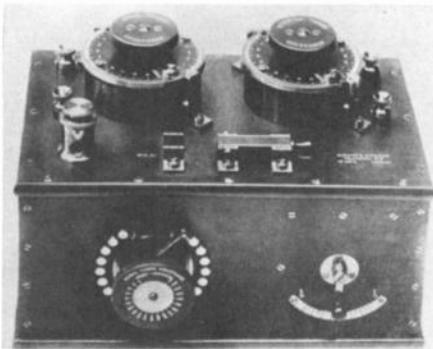


Figure 2. The Marconi Shortwave Multiple Tuner. (The Marconigraph.)

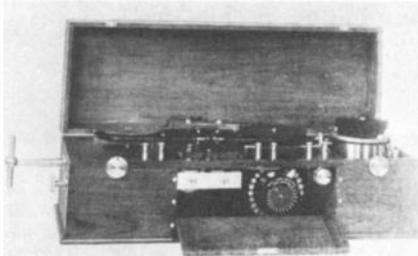


Figure 3. The Marconi Time Signal Receiver. (The Marconigraph.)

also adopted.

The earliest version of the Marconi Multiple Tuner is shown in Figure 1 (The photograph is from the collection of the Antique Wireless Association.) The basic construction consists of a wooden top, with the individual components mounted on it. The condensers are of the earliest design, with binding posts at the top. The antenna loading coil is a different version from the late 1907 tuner. It utilizes a tapped switch assembly, located on the left front. Brass plates identify the binding post connections.

In late 1907, the tuner was redesigned, using ebonite (hard rubber) as the front panel and top base plate. The brass identification plates were no longer used; instead the ebonite was engraved. On the right side, a new control was added, altering the degree of coupling between the intermediate and detector sections.

Figure 2 depicts a 1910 variation of the Multiple Tuner, containing only the antenna and detector tuning stages. It was known as the "Marconi Shortwave Multiple Tuner." The tuning ranged from 250 to 1,750 meters, the smaller size reflecting the desire for more compact apparatus in the wireless shack.

Still another variation of the Multiple Tuner is shown in Figure 3. Known as the Marconi Time Signal Receiver, it was designed in 1911. The case measured 22"L x 8"D x 8"H, and included a variable condenser, an aerial tuning inductance and a magnetic detector. The tuning ranged from

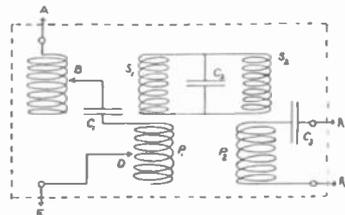
(Continued on following page)

Theory of the Marconi Multiple Tuner

A major problem in the early wireless days was interference between operating stations. Provided transmitting stations utilized different wavelengths, the solution fell to the receiving stations and their ability to sharply tune to the desired station, while at the same time tuning out the interfering station.

It was well known that if the coupling between the antenna and detector circuits was very loose, the tuning was more sharp than if the coupling was close. Likewise it was found that (1) if a tuned intermediate circuit was placed between the antenna and detector circuits and inductively coupled both to the antenna and detector circuits, (2) if all three circuits were put in resonance with the received wave, and (3) if the coupling were made very loose, the receiver could tune even more sharply to the desired signals, thus tuning out the undesired signals. Although the additional intermediate circuit reduced the strength of the desired signal in the detector, undesired signals were reduced even more (the signal to noise ratio was improved). The Marconi Multiple Tuner was based on this principal.

In the simplified circuit below, the antenna, A, is connected to the antenna circuit represented by the antenna tuning inductance, B, and antenna tuning condenser, C₁. E represents the ground/earth connection. The inductance P₁, also in the antenna circuit, is loosely coupled to inductance S₁, part of the intermediate tuning circuit formed by the two coils S₁ and S₂ and the intermediate tuning condenser, C₂. Coil S₂ is loosely coupled to the detector tuning circuit formed by coil P₂ and condenser C₃ which are connected to the receiver, R, where the signal is detected.



Reference: J. A. Fleming, *The Principles of Electric Wave Telegraphy and Telephony*, 2nd Edition, Revised, 1910, pages 806-810

(Marconi, continued)

100 to 2,500 meters, enabling clock makers, astronomers and shipboard operators to keep abreast of Greenwich time.

The Multiple Tuner, which was pictured on the front cover of the June 1987 issue, has been in my collection for two years. It was obtained through a fellow collector in Canada, who bought it from an antique dealer in England. Originally used in a coastal station until World War I, it was then taken out of service and stored in a barn for 70 years. Restoration was sorely needed.

*History of the Marconi Company by W.J. Baker, p. 114

Part 2 The Biography of Charles Samuel Franklin

Charles Samuel Franklin was born March 23, 1879, in Walthamstow, England. He was the youngest and weakest of 13 children, brushing close to death several times during his youth.

Cultivating his interests in electricity, he studied science and engineering with Professor Silvanus P. Thompson at the Finsbury Technical School. After graduation, he worked in Manchester and then with the Norwich Electricity Company.

In 1899, he secured a job with the Wireless Telegraph and Signal Company, forerunner of the Marconi Company. He was sent directly to South Africa, in service for the Boer War. Wireless telegraphy was first used in the field there, persevering through many problems with the antenna masts and interference from static discharges. The installations impressed the British Admiralty sufficiently enough, though, and a contract was awarded on July 4, 1900, for the installation of wireless aboard twenty-six naval vessels and six coastal stations.

In February 1902, C. S. Franklin sailed west



Figure 4. Charles Samuel Franklin. (Wireless Over 30 Years.)

with Marconi from Poldhu, England, on the S.S. Philadelphia. Acting as chief wireless operator, he received signals from 1550 miles away and single S's up to 2100 miles. Marconi had set up a Morse inker tape to record, and had proof authenticated by the ship's captain. Signals became too weak in daylight to operate the tape machine past 700 miles; on this voyage they realized the effect of darkness on signal strength.

Two years later, the Marconi Company was requested to set up installations in Russia, for use in the Russo-Japanese War. C. S. Franklin was one of the engineers. While in Russia, he sent

N^o 12,960



A.D. 1907

Date of Application, 4th June, 1907

Complete Specification Left, 24th Dec., 1907—Accepted, 9th Apr., 1908

PROVISIONAL SPECIFICATION.

“Improvements in Receiving Apparatus for Wireless Telegraphy.”

We, MARCONI'S WIRELESS TELEGRAPH COMPANY, LIMITED, and CHARLES SAMUEL FRANKLIN, both of 18, Finch Lane, in the City of London, Electricians, do hereby declare the nature of this invention to be as follows:—

Our invention relates to improvements in receiving apparatus for wireless telegraphy whereby we obtain very accurate tuning and therefore great freedom from interference and at the same time measure the wave length of and the power received from the sending station, the latter forming, when the power transmitted by the sending station is known, an approximate measure of the distance of the sending station, and *vice versa*.

home sketches and drawings of the first disc capacitor (variable). The design significantly simplified the adjustment of the receiver-tuned circuit. Then he went further, constructing a compact assembly of three coupled-tuned circuits, variable in wavelength and coupling. This invention became the Multiple Tuner, patented in 1907. Used in conjunction with the Magnetic Detector, it was adopted as the standard equipment for many years in ship-to-shore service.

Franklin patented several inventions for the Marconi Company over the years. He instituted a research and development department in 1912. Small and frail, he was happiest when working in seclusion. He had a general disregard for authority, excepting that of his idol, Marconi.

On June 12, 1913, Franklin filed patent #13636, upon his discovery of a valve being capable of producing continuous oscillations (CW) and the magnification of signals when coupled from plate to grid circuits. Thus, he too was involved in the discovery of regeneration.

In 1916, Marconi and Franklin developed apparatus which operated on a wavelength of two meters, proving successful in line of sight communications. He continued experimentation with different apparatus and a variety of wavelengths throughout the war years.

In late 1919, Marconi purchased an ex-enemy steam yacht, the *Rovenska*, renaming it the "Electra." Outfitted as a floating wireless laboratory, the *Electra* became the receiver of Marconi's and Franklin's shortwave experiments. Here, Franklin invented, improved and patented the Beam Shortwave System. Following years of investigation, he coupled a highly efficient antenna hookup with a valve transmitter, using his "concentric feeder" system, basically our present-day coaxial cable. By 1923, he succeeded in copying signals 2,320 miles away, at night, on 97 meters using his perfected equipment.

Broadcasting made its appearance in Britain, and Franklin was assigned to design the stations; London's first broadcast station - 2LO - was the result.

He was instrumental in building the Marconiphone "Crystal Junior," the first receiver to obtain British Post Office approval. He also designed the Marconi Type V-2, a receiver of great interest to collectors on both sides of the Atlantic.

By 1925, the Marconi Research Department consisted of six engineers and twelve technical assistants. Through the 1920's, Franklin, H. J. Round and others advanced the broadcast transmitter to a remarkable state of efficiency.

However, in 1931, times changed, and management underwent new leadership. They formed a different structure in research and development. H.J. Round resigned, and Franklin's staff disbanded, so he was forced to return to the main plant at Chelmsford.

One of his last achievements was the design of the sound and vision antenna for the BBC's first television station at Alexandria Palace. When he retired from the company in 1937, sixty-five patents were registered in his name. He went to live near the site of the famous Poldhu station until his death in 1964.

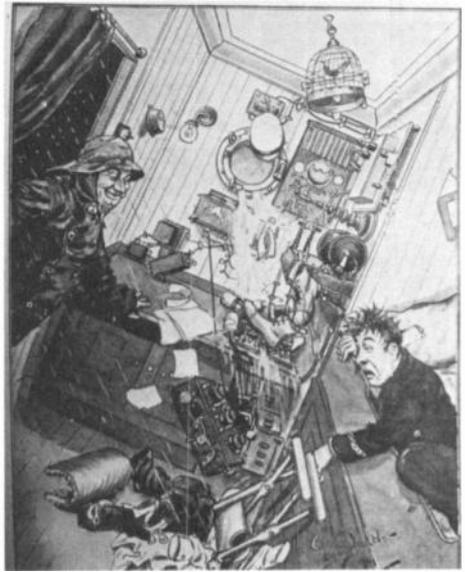


Figure 5. Cartoon from *The Wireless World*.

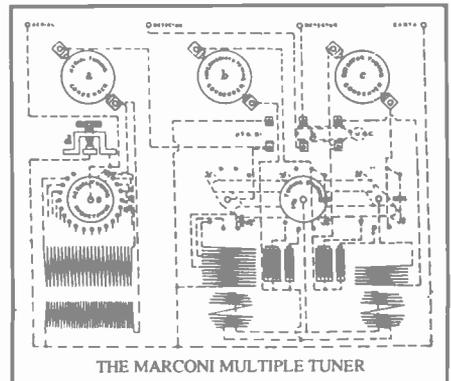
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MULTIPLE TUNER

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4. *Wireless Telegraphy* by Rupert Stanley, 1914
5. *Wireless World*, Nov. 1913, London
6. *Wireless World*, Feb. 1914, London
7. *The Marconigraph*, June 1912, London (photo of the Shortwave Multiple Tuner)
8. *The Marconigraph*, Jan. 1913, New York

C. S. FRANKLIN

9. *Pioneers of Wireless* by Ellison Hawks, 1927
10. *Radio's 100 Men of Science* by Orrin Dunlap, 1944
11. *History of the Marconi Company* by W. J. Baker, 1970
12. *Wireless Over 30 Years* by R. N. Vyvyan, 1933, his photo.



THE MARCONI MULTIPLE TUNER

CLUB SPOTLIGHT

ANTIQUE WIRELESS ASSOCIATION A.W.A.

The Antique Wireless Association (A.W.A.), founded in 1952, is a world-wide organization of 3,000 members dedicated to researching and documenting the history of wireless communications. The A.W.A. accomplishes its goals through a quarterly journal - *The Old Timers Bulletin*, sponsorship or co-sponsorship of historical meets, an annual national conference, and a public radio museum. The A.W.A. is a non-profit historical society chartered by the State of New York.

The Old Timers Bulletin (OTB), published since 1960, now averages 36 to 48 pages with exceptionally sharp photos. Articles in the quarterly cover such subjects as early broadcast receivers and loudspeakers, amateur and commercial tube-type receivers, television, radio and telegraph keys, pre-1910 wireless and electricity, and vacuum tube development. Other subjects include early amateur transmitter operation, commercial and broadcast station history, and reviews of books and articles relevant to early radio.

Although the OTB accepts no paid advertising, it prints several pages of ads for the use of members who want to buy, sell or trade. Back issues are available at \$2 per copy.

The A.W.A. also has published several monographs and books on radio history. In 1986, the 123-page Volume I of the A.W.A. Review was completed; Volume II is expected in late 1987.

Annual historical meets are held in the United States and Canada. In 1984, A.W.A. joined the British Vintage Wireless Society for an international conference in London. A.W.A. co-sponsors



regional meets in different locations throughout the year. Meeting notices appear in the OTB, and flyers are mailed to members in the regional area.

The A.W.A. annual conference - a four-day event each September - features a large flea market, three auctions, seminars, banquets, seminars and demonstrations. This world's largest historical radio conference draws international participation with well-known historians and radio personalities attending.

The A.W.A. Historical Museum houses 25,000 historical radio artifacts, boasting a collection larger than the Smithsonian's. Exhibit areas include early broadcast and television receivers, rare tube collection, Western Union office and telegraph key display, replica of a 1925 radio store, several ship installations including a 1901-07 Marconi wireless room. Of special interest to radio amateurs are several replica stations using spark transmitters.

The museum, located in East Bloomfield, N.Y., is open May 1 to Oct. 26, Sunday 2 to 5 PM; June 1 to Aug. 31, Sat. 2 to 4 PM and Wed. 7 to 9 PM. Admission is free and open to groups by appointment (716-657-7489).

A.W.A. has an operating station with the call letters W2AN.

Antique Wireless Association, Inc. A.W.A.

Yearly dues: \$10.00 per yr., First Class, U.S. & Canada. Foreign dues are \$12.00 per yr., Air Mail.

Publication: *The Old Timers Bulletin* (OTB), published quarterly.

Membership year: 12-months from joining.
Officers:

President: Lauren Peckham
1st Vice-President: Bruce Roloson
Secretary: Richard Ransley
OTB: Bruce Kelley
Treasurer: Dexter Deeley
Museum: Charles Brelsford

Information, applications for membership and payment of dues:

Bruce Roloson
PO Box E
Breesport, NY 14816



The banner for the Old Timer's Bulletin.

Coming Meets: A regional meet this October will be in Dallas, Texas. The 1987 A.W.A. National Conference is scheduled for Sept. 23 to 27 in Canandaigua, N.Y.



BOOK REVIEW

THE MECHANICS OF TELEVISION BY PETER F. YANCZER

REVIEWED BY RICHARD D. BREWSTER

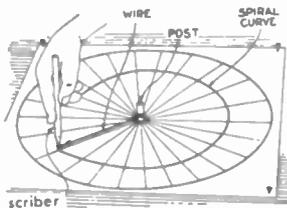
The Mechanics of Television – The Story of Mechanical Television, is a technical book for the television enthusiast discontent just to have a mechanical television sitting on his shelf. In addition, with this book one can enjoy the wonders of mechanical television without being among the fortunate few owners of such antiques.

But even if you do not plan to build or even operate a mechanical TV set, this book is a fascinating and informative study into the wonders of the very earliest television systems.

This 5 1/2 x 7 1/2 paperback has nine chapters and six appendices. The first chapter contains a brief history of television from the early 19th century up to the 1930's.

The next six chapters go into the details of the mechanical television system. This begins with scanning methodology and various disc (and drum) arrangements. Also included is a section on scanning motion picture film. Next follows a detailed discussion of motors and synchronizing methods used in early TV. A chapter is devoted to the various television lamps originally employed, as well as light emitting diodes (LEDs) and enclosed arc lamps which can be utilized in the construction of "modern" mechanical systems. Photo electric devices are covered in a chapter which includes discussions of photocells, photo multipliers, and photo-sensitive semiconductors. The television optics chapter takes one from the physics of light to the applications of lenses and mirrors.

The chapter on electronics is a rather detailed



Divide a circle on a metal disk into 24 equal sectors and scribe a spiral

Figure 9.4 from *The Mechanics of Television* shows how to locate the holes on a scanning disk.



treatise of how the miniscule television signal is amplified and modified so as to operate the appropriate television lamp. Also covered are the design of power supplies for the electronics and circuits for a disc position sensor, a zirconium arc lamp supply, and a strobe lighting system.

Chapter eight describes early television systems. The last chapter covers the actual construction of a modern mechanical television system. The ample detail enables the advanced enthusiast to build working mechanical TV pickup and display units. The six appendices make additional details available to the constructor.

Given my own interest in working with mechanical TV, I found *The Mechanics of Television* a most useful book. Illustrations are profuse and well done. Unfortunately, a bibliography is not included in the book.

I can recommend *The Mechanics of Television* highly to any antique TV enthusiast as well as to any antique radio collector who wants to become knowledgeable about this fast-growing segment of the antique communications hobby.

Published by Peter F. Yanczer, 835 Bricken Pl., St. Louis, Mo. 63122, 1987, 171 pages. paperback, \$20.00 postpaid.



FOR SALE: Arcturus 127, 124. DeForest DV2, 3, 5 & others. **WANTED:** Unusual old tubes & Connecticut receiver. R. Dobush, 3554 W. 105, Cleveland, OH 44111. (216) 228-4953

WANTED: IF Gain knob for FB-7. Squires Sanders SS-1R. HRO-60 coils and accessories. National catalogues and literature. Steve Barnes, K6PFW, 848 N. Silverwood, Upland, CA 91786

FOR SALE: Videotape "Turn On To Radios," 13-minute collecting introduction, teens to adults - \$19.95. Gerald Schneider, 8750 Georgia Ave., Suite 1410-B, Silver Spring, MD 20910. (301) 565-2840

WANTED: Ten-Tec Eq. State price & condition. H.F. Schnur, Rt. 3 Box 151, Greenville, NC 27854

FOR SALE: Philco 57-C, looks and plays nice! - \$40. Radiola III, nice original condition, with 2 WD-11s for display - \$50. RCA UZ1325 horn speaker, works - \$45. Radiola AR-812 portable, all tags, original - \$70. AK Model 37, excellent original finish, works - \$40. AK Type E speaker, works - \$25. Crosley 16" Musicon, looks good, doesn't play - \$20. RCA original 45 rpm phono in portable case, unchecked - \$20. Shipping not included. Dave Crocker, 6 Old Farm Rd., Duxbury, MA 02332

WANTED: Does anyone know the origin or first use of the noun "radio"? R.C. McRoberts, WB9ZIP, PO Box 934, Racine, WI 53405

WANTED: Manual and service info, or copy, for Hickock 123A Card-A-Matic tube tester. Barry Kasindorf, 8 Maymont Dr., Framingham, MA 01701. (617) 877-4947

FOR SALE/TRADE: AK 435 tombstone, refinished, nice - \$165. 1939 Victor Animatograph Co. 16mm projector, complete with manual, two nice speakers, an old 78 rpm phonograph, tools, microphone, the whole set - \$250. Pilot superhet, AC/DC huge table model, Stream Lines era, needs some electrical - \$150. Fifties radio telephone novelty, nice piece - \$55. Truetone tombstone untested, front refinished, nice - \$85. Two home brew sets, no tubes - \$50 ea. **WANTED:** Plastic cabinet for the radio lamp. Chassis for the AK 82. Cabinet for a Buddy Boy. Cone for the W.E. AW-540 telephone speaker. (All must be in very good condition.) Bruno Pinto. (718) 847-4802

FOR SALE/TRADE: Catalin FADA (torpedo) & RCA catalin BC/SW. **WANTED:** Scott Philharmonic, McMurdo, ornate cathedrals. Ronn Perrin, 385 Arden Rd., Columbus, OH 43214

WANTED: Tube hi-fi components, early loudspeakers, hi-fi magazines, etc. Jack Smith, 288 Winter St., N. Andover, MA 01845. (617) 686-7250

FOR SALE: Radiola 100A speaker, works, good cloth & cord, cab. needs cleaning - \$25. Bosch Cruiser, untested, chassis clean, cab. poor - \$20 plus UPS. **WANTED:** Power transformer for a 1939 Zenith 10-tube console Model 1103. Push buttons and one knob for an Airline movie dial. Driver & base for an AK L horn. Thanx. Jahan L. Acciavatti, PO Box 231, Southboro, MA 01772. Eves. (617) 476-3229

CLASSIFIED AD DEADLINES

Sep. 10 for Oct. 1987 Issue
 Oct. 10 for Nov. 1987 Issue
 Nov. 10 for Dec. 1987 Issue

FOR SALE: 440 antique records before 1930, all 78 rpm, good to new condition. Inventory for SASE. Will not ship, pick up only - \$400. John Snow, 4539 Bartlett, Shorewood, WI 53211. (414) 964-0194

WANTED: TR1 transistor sets. Have AK parts & cathedrals to trade or pay high prices. Jerald Hueber, 1368 King Richard Pkwy., West Carrollton, OH 45449. (513) 866-6958

FOR SALE: Majestic grandfather clock radio, a dandy - \$400. Pat Cutini, 2114 Main Rd., Corfu, NY 14036

WANTED: Old paper collectibles, catalogs, QSTs, magazines, posters, etc. Also vintage tubes. Sheldon Cleaver, 427 W. Second St., Berwick, PA 18603. (717) 752-5471

WANTED: Cabinet for Scott Philharmonic. Will consider any style. Dial escutcheon for Philharmonic and for Zenith Model 60, 1930 console with thumbwheel dial. Chassis #1204 for 1937 12-tube Zenith. Thanks John Hayes, 2485 Golden Ave., Long Beach, CA 90806. (800) 556-8436 days, (213) 595-8659 eves.

FOR SALE: Crosley 3-band SW radio Model 25 AW, mint, completely restored - \$150 COD. Harold Herp, 6615 Michele Ct., Huntingtown, MD 20639

CLASSIFIED ADVERTISEMENTS

FOR SALE: Advertising wall clock "Dumont Television," mint, working - \$125. Supreme 333 set analyzer, exc. - \$35. Craig Smith, 1935 1st Ave. S., St. Petersburg, FL 33712. (813) 822-7592 days

WANTED: Circuit diagrams for Magnatone amps Model #'s 430, 440, 460 and M-20. G.A. Rhoads, 1 Mill Rd., Westboro, MA 01581. (617) 366-4670

FOR SALE: Arborphone radio. Tower speaker. Radiola 55. Stromberg-Carlson treasure chest. All good. **WANTED:** Wooden speakers, horns and others. Greg Michaels, 29 Arden Rd., Scotia, NY 12302. (518) 346-2687

WANTED: RCA Victor Models 110 and 100 cathedrals. Philco 70 and 89 cathedrals. Gilbert Smith, 248 South 36th St., San Diego, CA 92113. (619) 233-8646

FOR SALE: Pilot Super Wasp battery set, with complete set of coils - \$110 + UPS. Bob James, Rt. 1 Box 99, Stanton, IA 51573. (712) 829-2391

WANTED: Philco bezel for Model 29. Brown bakelite. Set has drum dial & shadowmeter. Allen Jochem, 2205 Broadway, Quincy, IL 62301

FOR SALE: Rider's Manuals 7 to 20 - \$125 plus shipping. Glenn Peterson, Rt. 2 Box 198, Bagley, MN 56621. (218) 694-2179

WANTED: Rider's Volume 23. Peter M. Mingrone, 15310 Rayneia Dr., Sherman Oaks, CA 91403. (818) 789-7959

CLASSIFIED ADVERTISEMENTS

FOR SALE: Fifty Years catalogs. General Radio Experimenter. Dumont Oscillographer. Sears Roebuck. Radio Masters. List: SASE. F.H. Yonkers, W21BH, 7 Old Farms Rd., Saddle River, NJ 07458. (201) 825-1895

WANTED: Panel meters, 4 1/2" square/round AC volt and amperes. Also, 7" diameter antique volt/ampere/watt meters. TCBA, RD3, Box 181, Glens Falls, NY 12801

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YOUR MAILING LABEL NOW CORRECTLY SHOWS THE LAST ISSUE OF YOUR SUBSCRIPTION!

Mailing labels before the April 1987 issue showed the date of the issue following your last issue.

The number of issues you will receive has not changed, only the date on your label.

FOR SALE: Philco 70 chassis, hums - \$20. Pilot 3" TV, almost works - \$85. AK Model 20 compact, very restorable - \$50. Edison cylinder phono horn, long & straight - \$120. 1894 West. Elec. portable telephone generator, unique! - \$55. Dewalc 1933 compact, restorable - \$20. Magnavox horn and driver for inside Model TRF-50, works - \$20. Shipping extra. Questions? Include SASE. Dave Crocker, 6 Old Farm Rd., Duxbury, MA 02332

WANTED: Wooden or plastic radio knobs. Thanks. Chuck Guarino, 123 Gary Ln., Cneek-towaga, NY 14227. (716) 668-2421

26TH ANNUAL A.W.A. HISTORICAL RADIO CONFERENCE

Sponsored by the Antique Wireless Association, Inc.
September 23 to 27, Sheraton Inn, Canandaigua, New York
"In the heart of the beautiful Finger Lakes" (near Rochester)

5 DAYS OF OUTSTANDING ACTIVITIES for the RADIO COLLECTOR and HISTORIAN

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Main Street, Holcomb, New York 14469

(Note: Advance registration advisable.)

CLASSIFIED ADVERTISEMENTS

FOR SALE: Wall radio display: New in factory cartons. A six-transistor working radio with all circuitry, speaker and tuner beautifully displayed in walnut frame. Former Delco promotion. A must for your display room - \$100 + UPS. Limited quantity. Herb Parsons, 5 Surrey Ln., Peabody, MA 01960. (617) 535-1009

WANTED: Horn for a W.E. 518-W base. Meissner coil catalog. Marc Ingenthron, 9215 W. 83rd St., Overland Park, KS 66204. (913) 642-4767

FOR SALE: Scott parts. Send SASE for list of Scott parts for sets from 1931 through 1941. Norman S. Braithwaite, PO Box 2443, Redding, CA 96099. (916) 246-4209 eves. and weekends

WANTED: Knobs, small and large types, for Hallicrafters S-38 and S-38D receivers. L.B. Zimmerman, 8448 No. Harding Ave., Skokie, IL 60076

FOR SALE: Federal radio 8x8x12, solid wood case, it works. Make an offer. Will send a picture for \$1. Lennie Winters, Box 393, Imperial, NE 69033. (308) 882-5310

WANTED: Mir-ray or other mirror front radio. Buy or trade. Scott Hagerman, 392 Ann St., Cary, IL 60013. (312) 639-7745

WANTED: Dial glass for Crosley 6-volt or 110 V fiver series set 587. Ronnie Kaczmar, 5747 Williamson, Dearborn, MI 48126

CLASSIFIED ADVERTISEMENTS

FOR SALE: Sleeper variometer, new, in original box - \$75. Radio Corporation of America power transformer Model UP 1368, made by General Electric - \$75. Radio Corporation of America power transformer Model UP 1016, made by General Electric - \$75. Radio Corporation transmitting oscillation transformer Model UC 1008, made by General Electric - \$100. Marconi Aircraft flameproof telegraph key, heavy silver contacts - \$75. Lafayette semi-automatic bug Model MS435 - \$50. Fleron "Signaler" code practice set, like new in original box, buzzer, blinker, telegraph - \$50. Allen D. Cardwell panel-mounted vari-coupler Type 116-A - \$100. Original Magnavox replacement parts for Magnavox 2-stage audio amplifier - phone or write. US Navy rotary spark gap type CRP-10322 cast aluminum housing made by Raytheon Co. - \$150. All sales plus UPS charges. Phil Weingarten, 67-61 Alderton St., Forest Hills, NY 11374. (718) 896-3545

FOR SALE: 35 issues Radio & Television Service Dealer 1949-1954. 90 issues PF Reporter 1959-1968. 46 issues Electronic Technician 1957-1963. 49 issues Electronic Servicing 1969-1973. All for \$50 plus shipping (about \$25). Joe D'Airo, 424 Higbie La., West Islip, NY 11795

WANTED: Scott, McMurdo Silver (with or without cabinets), Zenith, Arvin, Crosley Deco sets. Also Scott 800B complete or parts. Mike Greene, 19113 Alpenglow Ln., Brookeville, MD 20833. (301) 774-3203

The advertisement features a grid of ten small images of audio equipment, each with a label below it: 728D (a speaker), 720A (a speaker), 1573A (a speaker), 490 (a speaker), 1086A (a speaker), 555W (a speaker), 596 (a speaker), 124 (a speaker), JENSEN model Q (a speaker), and JENSEN model L-200C (a speaker). Below the grid is a large logo for Western Electric with the text 'THE VOICE OF ACTION' in the center. At the bottom, contact information is provided for Paul Mundt, Vasco, and Projectors Theatre Equip.

Western Electric
THE VOICE OF ACTION

JENSEN AND W.E. SPEAKERS, AMPS. - WANTED - **PAUL MUNDT, VASCO** **PROJECTORS THEATRE EQUIP. - WANTED -**
P. O. BOX 1220
EL CERRITO, CA 94530
415-232-0217 (8-9 A.M.)

CLASSIFIED ADVERTISEMENTS

FOR SALE: Art-Deco 1988 calendars make a great gift or possession. Sparton blue mirror, Emerson Mickey Mouse (2), etc. Fifteen radios and some tube boxes make this a real collectible. Hurry! Rush \$10.70, First Class Mail, or \$10.05, Third Class, to Stan Lopes, 1201-74 Monument Blvd., Concord, CA 94520

WANTED: Round Ekco radio, U.K., Model 65, 36, 76 or 75, mint, prefer black or colors. Hall A. Acuff, 6833 Dartmoor Way, San Jose, CA 95129. (408) 252-1319

CLASSIFIED AD DEADLINES

Sep. 10 for Oct. 1987 Issue

Oct. 10 for Nov. 1987 Issue

Nov. 10 for Dec. 1987 Issue

WANTED: Regenerative amplifying receiver, Model 500, Klitzen Radio Mfg. Co., Racine, Wisc., Licensed Armstrong, Patent 1113149. W.W. Runcorn, 216 Jefferson, Clayton, NM 88415

FOR SALE: Good used tubes 37, 38, 39, 56, 57, 58, 77, 78, 6C6, 6D6 - \$1.50 each. 41, 42, 43, 47 - \$3.50 each, add UPS. George Hausske, 1922 E. Indiana, Wheaton, IL 60187. (312) 668-3845

WANTED: Owner's manual, servicing info, etc., for Electronic Laboratories Radio Utiliphone, Model 76RU. Don Clark, 4712 Eden Ct., Indianapolis, IN 46254

FOR SALE/TRADE: U.S. Radio & TV Corp. Model 27 cathedral, SX 71, SX 42, Howard 450A and Philco Model 220 radio/phono. **WANTED:** Nice consoles such as RCA 19 or 110K, Arvin Rhythm series, large round dial Zeniths and Rider manuals. A. Bruno, 24 Butternut Dr., New City, NY 10956. (914) 354-8899

WANTED: Zenith collectors: Please let me hear from you about your wants and trading stock. I have some to trade. Arie Breed, 510 Lake Dr., Ottumwa, IA 52501. (515) 682-6925

FOR SALE: Crosley Oracle cabinet, others. Can deliver to Canandaigua. **WANTED:** Early Ace. Craig Ball, 10101 Oak Hollow Cir., Austin, TX 78758. (512) 835-7292

WANTED: National Radio Company NC5-W or NC5-S shortwave converter. Circa 1932, tube complement: 1-235, 2-224, 1-227, and 1-226. Other National equipment solicited. Bill Fox, WB6NMP, HCR 60, Box 83, Gouldsboro, ME 04607. (207) 963-7623

FOR SALE: Gonset II - \$18. Gonset IV - \$30. Magnavox F-13, AM/FM - \$25. Radio Physics Course by Ghirardi, perfect condition - \$25. Surplus Conversion Handbook by Kneitel - \$15. Joseph Schwartz, K2VGV, 11 Windham Loop, Staten Island, NY 10314. (718) 698-8069

CLASSIFIED ADVERTISEMENTS

FOR SALE: Tubes new and used. Transmitting, receiving. SASE for list. Glenn Blizzard, K4HTI, PO Box 1364, Suffolk, VA 23434

WANTED: Help. A rear panel for an Emerson Model BT-245 bakelite, Cassis Model BT is needed. Please send me information on how or where I can get such an item. Elery Beale Jr., Box 1654 Parmenter Terrace, South China, ME 04358

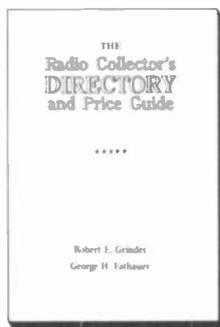
FOR SALE: Five 01A tubes, bakelite - \$25. 1922 Mesco catalogue - \$25. DeForest triple coil mount - \$25. 800 radio tubes, 1930-1960 - \$250. F.W. Chapman, Apt. B 218, 1130 N. Lake Parker Ave., Lakeland, FL 33805

WANTED: Sams Auto Radio Series Volumes 1-17, 35, 51, 160 and up. Dan Schulz, PO Box 892, Crystal Beach, FL 34681

FOR TRADE: E.H. Scott receivers for catalin and other desirable '30's & '40's radios or Marantz and McIntosh equipment. E. Schneck, 1401 Ocean Ave., Brooklyn, NY 11230. (718) 377-7282

WANTED: Manual, copy OK, for R.D. Hickock #123A Cardamatic tube tester. Barry Kasindorf, 8 Maymont Dr., Framingham, MA 01701. (617) 877-4947

FOR SALE: Thousands of parts for 1920s battery radios. Once a year opportunity to stock up on needed parts. Will be at the A.W.A. convention this September with this huge assortment. Gary B. Schneider, 9511 Sunrise Blvd., #J-23, North Royalton, OH 44133. (216) 582-3094



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CLASSIFIED ADVERTISEMENTS

FOR TRADE: For SW receiver: 40's radios, Farnsworth, Motorola, GE, Monitor, Trav-Ler. Joel H. Levy, 8 Waterloo Dr., Morris Plains, NJ 07950. (201) 285-0233

WANTED: Juvenile fiction books on radio and wireless by Breckenridge, Chapman, Collins, DeSoto, Duffield, Hancock, Honeywell, Lawton, Marlow, Penrose, Snell, Theiss, Verrill, Webster, Wheeler and others. Alan Reed, 2875 Geneva Hwy., Manitou Beach, MI 49253

FOR SALE: Very rare Crosley 1947 10" Spectator console model with swivel CRT (FOS, p. 80). Serious inquiries only. Jim Clark. (517) 323-9595

WANTED: Bakelite and plastic radios with deco or fifties design, 1930's-1950's. Especially interested in colored plastics. Peter Thomashow, 350 West 20th St., Apt. 4F, New York, NY 10011. (212) 989-0213

WANTED: For my mint RAO/NC-120, the military nameplates from the top cover of your junker RAO. Will pay junker price & you keep for parts. Set of good, brush earphones with or without headband. BC-342 in very good condition. RME-9 & silver-panel Super Skyriders. **FOR TRADE:** Rare, low frequency Howard 445 for good 435. Robert Enemark, Box 1607, Duxbury, MA 02331. (617) 934-5043

FOR SALE: BC-603 military surplus, new in orig. packing box. FM tank transceiver - \$150. R. Brewster. (412) 833-4287

CLASSIFIED ADVERTISEMENTS

FOR SALE: Tubes: 201A - \$1.75, 71A - \$1.50. Type 30, new? - 75¢. VT 49-39-44, new - 65¢. 3 ea. Stancor Interstage transformers, new - \$4.50. 2 ea. Hammond Interstage transformer for Radiola 3A - \$6 ea. 1 ea. Jensen Hypex Driver Model D-30, 30 watts, 16 ohm, new - \$15. Ship parcel post. Herb Balmer, 4206 SW 30th St., Topeka, KS 66614. (913) 273-4765

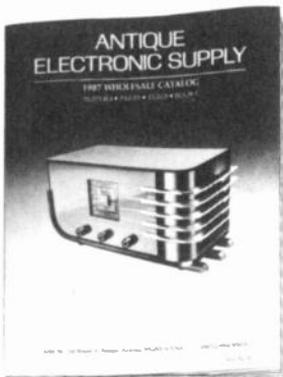
WANTED: Knight Ocean Hopper with plug-in coils. Jerry Ashley, 6477 Boyer Way, Salinas, CA 93907. (408) 663-4491

WANTED: Electro Voice Patrician four-way speaker system. Heath Legato speaker system. Jensen Auditorium speaker PMJ-18. McIntosh MC-275 or MC-22. Anthony Molettieri, 105 N. Main St., Souderton, PA 18964. (215) 723-7459

FOR SALE: Character & celebrity items mail auction. Catalogue \$1. Mailed in fall. Mr. Mack, 408 Yorkshire Blvd. - AR, Syracuse, NY 13219

WANTED: Early Collins transmitter such as 4A, 10A, 32A or 32B. Tom Boone, W4COC, 2509 Berkley Pl., Greensboro, NC 27403. (919) 275-3489

WANTED: Zenith grandfather clock radio. Zenith console models Chinese and Spanish Deluxe. Table models 7, 9 and 12 S 232. Steve Finelli, 322 N. 9th St., Easton, PA 18042. (215) 258-7524



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CLASSIFIED ADVERTISEMENTS

WANTED: Meissner communication receiver with band-spread or related tuning unit, any condition, 1938-40. Jacques Dubois, 466 King St., Port Chester, NY 10573. (914) 937-2447

FOR SALE: BK transistor checker with cables - \$20. Sony 4-203UW 3" TV set - \$100. Candlestick telephone - \$55. GE wood table Model HP561 radio - \$12. Stromberg-Carlson #1-A Neutrodyne radio - \$175. Add UPS shipping. SASE for tubes & meter lists. Clark Trissell, 3530 Pawnee, Lincoln, NE 68506. (402) 488-5263

SEND ALL A.R.C. MAIL TO

**Antique Radio Classified
P.O. Box 2, Carlisle, MA 01741**

WANTED: Battery superhets, nice complete to partial parts sets such as: Remler, Phenix, Radiart, Madison-Moore, Leutz, Victoreen, etc. Please describe condition and price. John Hutchins, 9417 N. Rich Rd., Alma, MI 48801

WANTED: To contact radio servicemen who were active in the thirties and were committed to P. A. Henry Kuhn, 1397 Washington Circle, Forestville, OH 45255

FOR SALE: Atwater Kent Model 55-C in Kiel table - \$90. Bob Puttre, 637 Stratford Rd., Baldwin, NY 11510. (516) 223-9667

WANTED: For a Philco Model 49-900E: ebony cabinet and dial pointer & assembly. Paul M. Williams, 2364 Beaver Valley Pike, New Providence, PA 17560

WANTED: Radiola-Westinghouse RA-DA rheostat knob, pointer, shaft, and wiper. Steve Morton, 905 W. First, North Platte, NE 69101

FOR SALE: Philco Model 38-7. Majestic Model 70??B. Both good condition. Reasonable offer plus shipping. Larry Delaney, K9PSV, 1010 Harness Trail, Simpsonville, SC 29681

WANTED: Unusual, old, rare, historic, one-of-a-kind telegraph items for my collection. Gil Schlehman, 335 Indianapolis Ave., Downers Grove, IL 60515

WANTED: The juvenile fiction book "Radio Boys to the Rescue" by Allen Chapman. Robert Stapleford, 1800 Randolph, Topeka, KS 66604

FOR SALE: Wards Airline 10 1/2 x 10 1/2 x 19 solid wood case, complete radio, minus batteries, date of manufacture sometime in the 30's - make an offer. Will send a picture for \$1. Lennie Winters, Box 393, Imperial, NE 69033. (308) 882-5310

CLASSIFIED ADVERTISEMENTS

FOR SALE: Stewart-Warner radio complete 42x28x15 beautiful wood cabinet, magic keyboard (foreign, police, amateur, aircraft) dial. Make an offer. Will send a picture for \$1. Lennie Winters, Box 393, Imperial, NE 69033. (308) 882-5310

WANTED: Original schematic of Mu-Rad MA-15 showing two-foot external loop. Don Steger, 4821 Rockland Way, Fair Oaks, CA 95628. (915) 967-4630

FOR SALE: 148 or 149 Zenith TV, solid wood cabinet with closing doors. All original. Jerry Breazeale, 899 Pinedale Terr., Sugar Hill, GA 30518. (404) 945-0243

WANTED: Info, schematics for 1946 Kean Assoc. Electro-Kit No. 1. 1-tube radio kit using 1D8GT. Art McComas, 5 Hilltop Trail, Denville, NJ 07834. (201) 627-5359

FOR SALE: 80 elec. radios, 18 batteries, 3 crystals. 20 pr. earphones. 24 speakers + few tubes. Ted Rupinski, 170 Cheshire Rd., Pittsfield, MA 01201

FOR SALE: Just purchased 3000 old radio tubes, most in sealed cartons - \$2 and up. Send SASE for list. Bev Ritchie, 1265 E. Mesa, Fresno, CA 93710

WANTED: One 4-terminal audio trans. for Radiola 3A. Open OK. R. Burick, 6 Wheatstone Dr. Apt. 5, Gaithersburg, MD 20877. (301) 977-6745

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Victrola Credenza 8-30 Model

**David Yo
P.O. Box 832
Monterey Park, CA 91754
Tele: (818) 576-2642**

CLASSIFIED ADVERTISEMENTS

WANTED: Aeriola Sr. cabinet. Please respond with price and condition. Thanks! Bill Jones, 5229 Cheshire Rd., Galena, OH 43021

FOR SALE: New 100TH - \$20. 250TH - \$30. ML4 GE, new - \$25. J. Wasiewicz, 229 Sarles Ln., Pleasantville, NY 10570

WANTED: Radiola Special 2-tube set by Westinghouse - will buy or trade Radiola III plus III-A or dicker on others in my collection. Want Clapp-Eastham RZ or will trade my HZ towards C-H radio. Charles W. Rhodes, Journey's End Rd., South Salem, NY 10590. (914) 533-2503

FOR SALE: 1931 RCA Radiola 86 floor model with record player and recorder - best reasonable offer. Donald Sochurek, W191 S7500 Richdorf Dr., Muskego, WI 53150. (414) 679-0212

WANTED: AR1300 plug-in coil. Radiola 41 chassis. Magnavox A2R top socket + horn. Federal Jr. chassis. Myers phones. John A. Myers, Box 98, Wilson, NY 14172. (716) 751-6053 evenings

FOR SALE: Most Often Needed Television Servicing information by M.N. Betmon 1950, 1951, 1953 - \$15 plus shipping for all three. Tom Burnside, 4838 S. Westhaven Dr., Jackson, MS 39209. (601) 922-2235

WANTED: Cover for Edison standard cylinder phonograph, any condition. Rider's Volumes 21, 22, 23. Leonard J. Arzooonian, 61 Columbus Ave., North Providence, RI 02911

FOR SALE: Belmont wings semi-cathedral. Emerson mini-tombstone. RCA 103. Ben Montabana, 1133 Graham Dr., Birmingham, AL 35214. (205) 798-5289

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CLASSIFIED ADVERTISEMENTS

FOR SALE: National NC-100XA receiver (F.O.S. p. 238), very good - \$50 plus 60 pounds UPS. John Eng, 5151 Del Este Circle, La Palma, CA 90623. (714) 220-1965

WANTED: Early electric fans, wind-up, hot air, open-frame motor, any unusual. Richard Cane, 8391 NW 21 St., Sunrise, FL 33322. (305) 741-6838

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FOR SALE: Hickock charts for: Models 532, 533, 533 A, B, DM, 535, 600, A, 605, A, 800, A, K (back to 01A) - \$6 ea. ppd. Conrac AV-12 video & sound, professional, TV tuner - \$50 & \$35 ea. Sams AR: Vols. 19, 23, 26, 31, 33, 35, 50, 184, 185, 190 - \$4 ea. ppd. or trade for Vols. 243, 262, 266, 293, 299, 300 & later. Can filters: triple 20 uf., 450 volts (neg. not grounded) - \$3 ea. Sprague orange drops: .1uf. 1kv - \$1 ea. NIB VT24/864 (UX sub. for WD11, WD12) - \$5 ea. NIB 78 - \$2 ea. Approx. 50 NIB TV picture tubes - \$50 take all (\$10 + UPS each if shipped), list SASE. RCA 106 speaker - \$20. AK N speaker - \$25. Walbert filament lock switch, NIB - \$2 ea. RCA WV 65A, 1947, battery VTVM, with batteries - \$20. Chassis, transformers good, Airline AE-11 - \$20. Garrard A changer - \$10. Federal #56 audio - \$5. Approx. 100 vintage car radios, 12 volts - \$100 take all, picked up. General Radio Megohmmeter, wood case - \$20. Restored AK 40 with E sprk. - \$125. Multiphase CR-1 picture tube restorer, works - \$15. B&K 1076 Analyst, 100% working - \$125 firm. B&K A107 Sweep Analyzer - \$20. Majestic 290 chassis with Model 10 shortwave converter chassis, cabinet also if picked up - \$50 firm. Jim Farago, PO Box 65701, St. Paul, MN 55165. (612) 722-0708

WANTED: 00 and 01A tubes, with long brass base and short prongs. Will buy duds if good ones unavailable. State price, first letter. Carl Reinke, 2724 N. 27th St., Sheboygan, WI 53083

FOR SALE: 1918 phone, Splitdorf, Lafayette, R-445/ARN-30, 24-hour clock, Zenith Remote, etc. SASE. David Minchella, 80 Campfire Rd. N., Henrietta, NY 14467. (716) 359-3337

CLASSIFIED ADVERTISEMENTS

WANTED: Parmak radios or information. Manufactured by Parker McCrory Co. Of K.C. Ken Ketner, Box 65135, Lubbock, TX 79464

CLASSIFIED AD DEADLINES

Sep. 10 for Oct. 1987 Issue
Oct. 10 for Nov. 1987 Issue
Nov. 10 for Dec. 1987 Issue

WANTED: Anything McMurdo Silver or pre-1935 aircraft radios, manuals, instruments, props, etc. Send description and price or trade desired. James Treherne, 11909 Chapel Rd., Clifton, VA 22024. (703) 830-8593

FOR SALE: Mary-O-Dyne Model 512C, 1925, 5-tube, TRF, battery operated, Amber Mfg. Co. Philco Model 37-611, 1936. Majestic Pirate's Chest Model 381. Vibroflex wireless key. RCA horn speaker Model UZ1325. DeForest loop antenna. All for \$275. C. D'Alessio, 136 Changebridge Rd. K4, Montville, NJ 07045. (201) 263-4747

WANTED: Operating Crosley Pup and crystal set. Julian Young, 11 Willow Ct., Totowa, NJ 07512

FOR SALE: Radios, TVs, speakers, books, test equipment, bulbs, medical equipment. New catalog. Send SASE. John Kendall, PO Box 436, Fallston, MD 21047

WANTED: EH Scott AW27 (looks like Imperial, but has two tuning eyes). Scott Symphony, World's Record Super 9. Scott in Napier Consolette and/or Laureate Grande. Very top prices paid. Jim Clark. (517) 323-9595

FOR SALE: Military version Hammarlund Super-Pro BC-794 with power supply, works well. B.G. Martin, WB9BEH, Box 382, RR1, Spencer, IN 47460

WANTED: Philco 51 chassis and speaker or just speaker. Philco 70 chassis and speaker. Philco 15 chassis with 2 speakers. Teledial box or arm and preset stops for Stromberg-Carlson Model 55. Marion Van Hal, 1328 Orchard, Pella, IA 50219. (515) 628-2347

FOR SALE: 1,000+ military surplus tubes 30's-40's up, pick-up only. Raytheon transistor portable Model T-2500. 2 Emerson bakelite table model radios: 1 1939 & 1 Model 522 1942. Isaac B. Colo, N4MZG, 271 Kings Landing Rd., Hampstead, NC 28443. (919) 270-4636

WANTED: The tube socket micanta panel used on Westinghouse type DA detector-amplifier, including the 3 sockets. Same as used on Model RC. William H. Stuber, PO Box 153, Woodward, IA 50276. (515) 438-2008

CLASSIFIED ADVERTISEMENTS

WANTED: Radio News 1919, 1921, 1922. Peerless Dynamic speaker. Canadian radio magazines. Ron McNeill, Box 472, Yorkton, Saskatchewan, Canada S3N 2W4

FOR SALE: Northern Electric R-24, R-11, R-1000. Rogers batteryless 220. C.I.T.C. receiver. **WANTED:** Burndept Kaolin. Radio News Canada. A. Nolf, 539 Kastelic Pl., Burlington, Ontario, Canada L7N 3R5. (416) 639-4768

FOR TRADE: Catalin radios: Bendix green/blk. Garod yellow. FADA 845 marbled/white. FADA 652 yellow/red. Will trade for same type Motorolas, Emerson, FADAs (different models). **WANTED:** Junk catalin radios for parts, FADA, Emerson, Addison. David Brenner, 71 Burdette Rd., Atlanta, GA 30327. (404) 257-1665

FOR SALE: Western Electric 13-C amplifier in beautiful oak chest 24"x11"x10," lined inside with sheet brass. Uses four 205s, not included. All good and original, but filament switch missing - \$125. Quack shock instrument in oak case with missing handle - \$38. No sale without SASE and shipping money. Arthur Harrison, 501 Arbor Dr., Columbia, MO 65201. (314) 474-8729

WANTED: Mirrored radios. Trade from quality art deco collection of ten years or buy. George Bosch. (617) 478-4631, evenings

FOR SALE: A few good 1930's consoles. Some parts you might want. 6-meter transceiver. SASE for list. Chuck, PO Box 598, New Haven, WV 25265

WANTED: Early or unusual tubes, tube cans and cartons. Also, early light bulbs. Please describe and send price wanted to: Bruce Harbeck, 13408 Westwood Ln., Omaha, NE 68144

Please Save this Want List!

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RORC - Two-step Amp. no cam switch

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RORE - One-step Amp.

RORG, RORL - Det./Amp.

RORJ - Two-step Amp.

It may be a long time before I find some of the sets I am listing in these ads, so remember to call me when you are ready to part with yours. I am putting together a collection of early broadcast and wireless equipment and adding to it each month. I buy single sets or collections. Also: books, catalogs, manuals and other related documentation.

Call and surprise me; make my day!

John V. Terrey, 498 Cross Street
Carlisle, MA 01741 - (617) 369-9770

CLASSIFIED ADVERTISEMENTS

WANTED: Help: Regenoflex RJ Type 3 needs interstage and final output transformers and grid leak. Steve Imms, 691C Maple St., Narragansett, RI 02882. (401) 783-5387

FOR SALE: AK 55-C table model, metal case, runs OK, W.T.S. - \$75. RCA Model T64 superhet, 6 tubes, eye tube, 3-band, sim. to T62, F.O.S. p. 155, runs OK - \$60. Philco, 6 tube Super, tombstone, sim. to #116 F.O.S. p. 124, works FB, looks fair - \$75. TV collectors: Rare Transvision F.S. meter with book - \$25. A few UX-199 tubes - \$10 ea. \$18 for 2. 47 - \$7.50. 24 - \$4 ea. Rare Federal earphone 53-W - \$44, or with plug - \$35. Brondes Admiral Pre-WWI - \$25. **WANTED:** Radiola 2. Kennedy 4-tube. William J. Key, W1DWD, 58 Sycamore Dr., Halifax, MA 02338. (617) 294-1831

WANTED: 7" O.D. dial glass for Zenith 9S637 radio. Thanks. David S. Kendall, 1610 Fruit St., Huntington, IN 46750. (219) 356-5096 after 6 PM

FOR SALE: 100 phono cartridges, mostly new - \$50 or \$2 each plus shipping. Ted Youngman, 2225 Vigo, Lake Station, IN 46405

WANTED: Marconi: receivers, amplifiers, signs, etc. American, Canadian, English. Barry Janov, 2434 Dempster, Suite 112, Des Plaines, IL 60016. (312) 299-1400

WANTED: Audio amplifier input trans. (P.P. grids) for Radiola IIIA. Trans. may be open, need the shell. Capt. E.J. Lofquist, 1820 NW 195th #9, Seattle, WA 98177. (206) 546-2675

CLASSIFIED ADVERTISEMENTS

WANTED: Have nice Viking Senior but has homemade cab. Does anyone have cab. or want chassis? Vaughn Rudisill, 85 Willis Ln., Muttontown, NY 11791. (516) 496-2339 eves., 731-4600 days

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BONUS FOR EARLY RENEWALS

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Note: All subscribers who renewed early and had expiration dates after MAR87 (old 8704) will have their subscription increased by 1 month per year.

FOR SALE: Crystal set parts, plans, books. Catalog \$1. Midco, 660 North Dixie Highway, Hollywood, FL 33030

WANTED: Radiola III. Radiola II. Radio I. Will pay good price. Minoru Wakasugi, 1-16-11 Tokiwadai, Toyonocho Osaka, 563-01, Japan

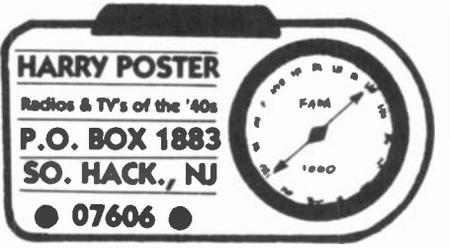
FOR SALE: Blonder-Tongue one tube, BTC 99, UHF converter for TV, plays, exc. - \$30 ppd. **WANTED:** Original Hallicrafters catalogs showing sets, spkrs., etc. made by company. Reading only. Prefer fair & good, but as long as complete. Please Help! Ed Turner, 3536 Arden Blvd., Youngstown, OH 44511. (216) 782-6757

VINTAGE TV'S FOR SALE!

Our latest acquisition of 60 sets from one store pushed us to the limits WE NEED SPACE!

Working TV Sets For Sale.....

RCA 721-TS (1947 with Channel #1)	\$299
RCA 9PC41, Projection	349
Dumont Chatham RA-103 (Channel 1)	249
Hallicrafters 7" w/push button, Ch. 1	299
Zenith Porthole Console	199
2X2/879 New, boxed for early TV's	2 ea.
TV Rider's #6 to #17	1 ea.
Sams Photofacts (#50 to #500) 100 ass't.	30



Telephone: (201) 794-9606

New Electronic Repair Parts

Capacitors: .001 - .05 ufd/400V: 50 ass't	\$10
Caps: 2-800 pico farad/600V: 50 ass't	5
Twist Lock Cans - 1, 2, 3, 4 section: 50 ass't	30
Tubeless: 20+20 and 40+40/150 VDC	1 ea.
Glo-Bars, Varistors, thermistors: 50 ass't	5
Radio/TV tubes-boxed: 1000 ass't	100
Ballast Tube-Amperite 7H-4B: 5 for...	10
Solder Tips - 25 Watt screw-in:	1 ea.

Shipping Extra. I now have 280 Vintage TV's for Sale or Trade - including 4 RCA TRK-12's.

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Member AWA-ARCA-PARS-MAARC-MARC-VRPS-NFWA-NZVRS-HRSA

CLASSIFIED ADVERTISEMENTS

WANTED: Need hood light cover for Radiola Model 18. Jim Alexander, 2304 West Michigan, Fresno, CA 93705

FOR SALE: Three tubes 4CX1000A's, good filaments. B.O. Bud Brown, W3GXD, 803 Pennbrook Ave., Lansdale, PA 19446

WANTED: Marconiphone VIII cabinet or photo of one. Gordon Wilson, 11108-50 Ave., Edmonton, Alberta, Canada, T6H 0H9

FOR TRADE: Marconi 220V wood case table model radio for old toys or best offer. Warren Burdine, 830 Geneva Dr., Prescott, AZ 86301. (602) 778-1608

FOR SALE: Test equipment: B&K 1075 - \$35, 1077 - \$50. B&K tube testers #600 - \$35, #747 - \$50. B&K Digital Capac. analyzer 830 - \$60. RCA Color Rig #10J105 - \$100. Marker Generator WR99 - \$70. Sweep Generator WR69 - \$50. VTVM WV98C - \$50. Isotap Trf. #WP25A - \$40. Scope WO56 - \$65. Precision Rf Generator E200 - \$35. RF Generator E400, AM/FM/TV - \$50. VTVM EV10 - \$50. Scope ES 500 - \$60. LSASE list. J.J. Papovich, 216 Broadway, Westville, NJ 08093. (609) 456-4079

WANTED: Plug-in coils to fit Branston mounts. Radiola IV case in any condition. Dan Brown, N. 4828 Monroe St., Spokane, WA 99205

FOR SALE: Kolster 6D and Bosch Cruiser chassis and escutcheons only untested - \$15 each plus UPS. **WANTED:** Ozarka 93, any gold-embossed front panel radios, such as Crosley RFL 60 + 75, Metrodyne, or Northland. Also base and driver for Magnavox horn and 1 good petal for Burns horn, prefer black, will take any. Thanx. J.L. Acciavatti, PO Box 231, Southboro, MA 01772. (617) 476-3229

WANTED: Philco chassis Type 16, speaker & cabinet. Majestic Model #70, cabinet and speaker. DeForest chassis for Type F-5. **FOR SALE:** Fleetwood 19" TV w/remote control - \$100. Pick-up 1950s. George E. Brehm, 13402 Leibacher Ave., Norwalk, CA 90650. (213) 864-8857

FOR SALE: Federal A10 mint, mint slide tuner, have 3 - \$145. Meters 4 copper cases - \$100 lot. AK speaker #M, mint - \$140. Xtal sets, 5 small screen TVs, CR tube 10BP4 - \$35. Mint unmodified command sets, Hallicrafter SX111 to salvage, glass dial smashed - \$60. Philco 91 cathedral BC342, xint., Murdoch antenna knife switch - \$45. Lot 27 old radio catalogues - \$45. Aeriola Sr., 2 FADA Model 160 radios, Philco 37 Farm radio - \$95. QST Dec. 1916, others, Early Radio broadcast 6 good, fair - \$80. Postal Telegraph clock - \$110. Utah oblong speaker - \$50. Joe Szabat, W3LST, 228 Plummer, Oil City, PA 16301. (814) 677-4042

CLASSIFIED ADVERTISEMENTS

FOR SALE: Grunow 1291 Teledial console, excellent - \$200, pickup or Canandaigua. **WANTED:** Scott tube shields. T. Wickstrom, 1664 E. Shore Dr., St. Paul, MN 55106

WANTED: German RES164 tube, AK 3978 potentiometer. Flat socket for Myers RAC3 tube. Bob Murray, 3216 Assiniboine Ave., Winnipeg, Manitoba Canada, R3K 0B1

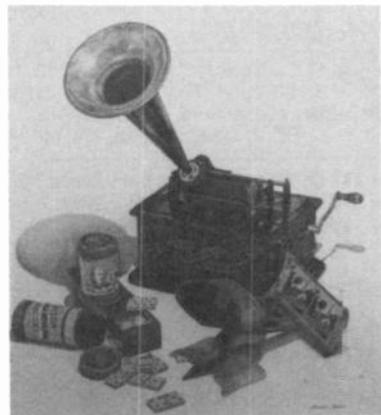
FOR SALE OR TRADE: Hammarlund Super Pro, works well, consider any reasonable offer, will add cash in trade for Hallicrafter S36, SX88 or what have you? Walt Joyce, 2118 East Q-5 Ave., Palmdale, CA 93550. (805) 947-3764

WANTED: Old amateur transmitters and receivers. All replies answered. T. Walker, N2GIG, 154 Intervale Rd., Mountain Lakes, NJ 07046

FOR SALE: Many N.O.S. flybacks, yokes, Arcturus 27, 24A, 51. **WANTED:** Old unusual receiving tubes. Crosley 58 chassis. Crosley Repwood sets. Thanx. Bob Dobush, 3554 W105, Cleveland, OH 44111. (216) 228-4953 eves.

WANTED: WWI vintage tubes. Radio Boys Aiding the Snowbound. **FOR SALE:** Rare 35APX. Brian Roberts, 3068 N. Evergreen Rd., Pittsburgh, PA 15237. (412) 931-4646

FOR SALE: Available: Philco dial replica Model 60, eyleted to your ring - \$8. Include postage. Antique Radio Restorations, 635 S. Lincoln Ave., O'Fallon, IL 62269



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CLASSIFIED ADVERTISEMENTS

FOR SALE: 1926 Neutrowound with caps - \$85. Day-Fan 5105, exc. panel, missing 3 parts - \$20. Metrodyne Super Six, good audios, poor panel markings - \$35. Crosley 51, good 01A's - \$65. Philco 38 battery cathedral, exc., works - \$35. Radiola 26 horn, good unit - \$60. Crosley-embossed ceramic tube holder, N.O.S. - \$10. Radiola V crystal detector metal plate - \$15. DeForest D-10 RF coil No. 5 - \$8. Grebe binocular coils units - \$6.50 for 5. Crosley D book condenser - \$10. Rauland R-21 AFT - \$10.50. Jefferson type 38 AFT - \$8.50. Westinghouse RA/RC tuner dial/knob - \$6.50. Freed-Eisemann Model 360 dials - \$3.50 ea. Crosley later style dials - \$6.50 ea. Shipping extra on radios. Wallace Geary, 209 W. Saunders, Mt. Pleasant, IA 52641. (319) 385-2389

WANTED: Modern Electrics. Antique tubes with good filaments - please state prices. Will fellow selling Weagant please write again; I'll buy it now if still available. Thanks. Marc Gottlieb, Box 1112, South San Francisco, CA 94083

FOR SALE: Radio magazines. Old tubes new and used. SASE for list. Glenn Blizzard, PO Box 1364, Suffolk, VA 23434

FREE: Just out, Flyer No. 187A. Many goodies. For free copy, send 2-stamp SASE. Olde Tyme Radio Company, 2445 Lyttonville Rd., Silver Spring, MD 20910

WANTED: Prewar and postwar TVs, any condition, will pay more than anyone. Bernard Sampson Jr., 3000 Yellowstone, Houston, TX 77054. (713) 465-9997

FOR SALE: Schematics 1920-1960 radio/misc. - \$3.50 each. Full details in first letter. Satisfaction guaranteed. Alton Bowman, 4172 East Ave., RD 2, Canandaigua, NY 14424

WANTED: Recordings of broadcasts by Boston Radio Station WNAC, 680 KHz, from the late 1950's to mid 1960's. Please contact Carl Howard, PO Box 3383, Ann Arbor, MI 48106

WANTED: Will pay premium price for Breckenridge's "Radio Boys with the Air Patrol." Jerry Simkin, 10 Avalon Ln., Matawan, NJ 07747

FOR SALE: FADA Bullet, 2-tone red and amber, works fine, very good condition - \$425. Philco 39-7 compact set, untested - \$35. Motorola 65T61 AM/SW, works - \$30. James M. Seal, 3309 Boatman's Mountain Rd., Morristown, TN 37814. (615) 581-8269

WANTED: Code/cipher machines wanted! Historian buys code machines, espionage radios! All periods! H.K. Melton, Box 5755, Bossier City, LA 71171. (318) 798-7319

CLASSIFIED ADVERTISEMENTS

WANTED: Teac R-1000 open-reel deck owner's manual. 1955-1960 Allied Radio & Federated Purchaser catalogs. Alan Kriss, 1872 Portsmouth Way, Union, NJ 07083. (201) 688-2092

FOR SALE: Hickok 510X Dynamic tube/multi-tester. Jackson 106 R.F. signal generator. Radiola A100 speaker. \$20 each plus UPS. R. Chenez, 36 Ridgewood Ln., Apt. 1, Gardner, MA 01440

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WANTED: Info on a Braun. M.M.3, made in West Germany, FAB #91000 Type 61D, Wechselstrom. Schematic please? & ckt. info? 7 vacuum tubes. Larry Bussey, 1145 W. "I" St., Ontario CA 91762

FOR SALE: Old radios, TV's, 40's juke boxes, old theatre equipment, films, posters, slides, exchange VHS tapes. Ernie Gottschalk, Box 198, Vale, SD 57788

WANTED: Chassis, speaker, knobs & es-cutcheon for dial for a Model 11 Brunswick. Also dial glass, frame around dial, and dial scale for Packard Bell Model 566. Paul Tucker, 4700 N. "N" St., Fort Smith, AR 72904. (501) 782-8178

FOR SALE: 2500 new tubes, 90% off reg. list price, some exceptions - \$25 min. Books: ARRL Handbook, g, 1944 - \$15. The Radio Handbook, g, Jones, 1938 - \$30. Radio Q & A, vg, Nilson, 1939 - \$25. Send 1gc SASE/list. J.J. Papovich, 216 Broadway, Westville, NJ 08093

WANTED: Old meters, instruments, any kind.
FOR SALE: Replacement meters, all types. No lists. Leonard W. Cartwright, 113 Sea Terrace Way, Aptos, CA 95003

WANTED: AM plate modulation transformer and/or AM transmitter - 500 plus watts. Bob Mattson, KC2LK, 10 Jane Wood Rd., Highland, NY 12528. (914) 691-6247

CLASSIFIED ADVERTISEMENTS

FOR SALE: Test eqpt. as removed from closed up radio repair shops, most do not have owners' books. Eico 460 5" scope - \$30. Conair 250 5" scope - \$30. Waterman S11-A 3" scope - \$25. Waterman S14-B 3" scope - \$25. RCA WO 57B 3" scope - \$30. Heathkit 5" 0-8 - \$27.50. Eico 950-B res. & cap. bridge - \$25. Heathkit TS-2 TV align. gen. - \$22.50. Triplett 1260 audio gen. - \$18. Hickock 1-177-B tube tester - \$25. Precise VTVM 909 - \$18. Score SM 112-B VTVM - \$20. Accurate VTVM 152 - \$18. Hickock 48, old, VOM - \$20. Precision 912 tube tester - \$30. Eico 221 VTVM - \$20. NR1 tube tester - \$20. Moss tube tester - \$20. RCA Photophone Inc. JR-20 tube tester to test 50-watt tubes via plug-in socket and cable 2 meters - \$30. Supreme 504-B tube tester - \$22.50. Precise 630 RF-AF TV marker Signal Gen. - \$20. Heathkit TC-2 tube tester - \$15. Knight tube tester - \$15. Genameter TV-50 Signal Gen. - \$20. Approved Inst. Co. A200 Sig. Gen. - \$20. Approved A100 Sig. Gen. - \$20. Philco (batt) old Sig. Gen. - \$20, less batts. - \$20. Signal Corps 1-72-J Signal Gen. - \$30. Tube brass base open fil no tip - \$7. Steward Warner 201-A short pin - \$7.50. Meissner how-to-build ins. book - \$15. Meissner how-to-build radio rec's (TV) - \$19. High Fidelity Magazine Salute to the Incredible Talking Machine 1877 to 1977 History of Radio Phono, RCA Nipper juke boxes & more - \$9 per copy. Radio News 1930 to 1935 - \$3 ea. Radio News 1927 to 1929 - \$4 ea. Radio News 1945 to 1958 - \$2 per copy. QST 1929, 1930 - \$3. QST 1931 to 1936 - \$2 per copy. Radio Craft 1939 to 1945 - \$2.50 ea. Radio Electronics 1949 to 1953, lot of 10 - \$9.50. Radio World Weekly - \$8 for 7. Silver Marshall 331 audio - \$15. Silver Marshall 221 audio - \$15. National tone filter - \$10. National S11-S51 audio - \$12 ea. 01A Philco N.O.S. - \$7. 01A used - \$4.50. 71-A N.O.S. 7.00 71-A used - \$3.50. 1 each Crosley, Zenith, Dumont N.O.S. in boxes - all three for \$8. RCA UV 877 drive tube - \$3.50. W.E. 518-W speaker drive unit - \$22.50. Electronics Buyers Guide, asst. years - \$8. Service notes by the bundle, RCA, GE, Philco, Motorola - \$7 per bundle. Have Rider's, Howard Sams, RCA, Philco radio & TV data. SASE for list. Min. orders \$7.50. All items plus shipping. F. Krantz, 100 Osage Ave., Somerdale, NJ 08083

FOR SALE: If you have not sent for my radio-related tie clasp and lapel pin list yet, hurry. Over 125 satisfied customers from 9 clubs cannot be wrong. Best 22¢ stamp you ever used. Send LSASE to Michael Sabodish Sr., 11-A Matawan Avenue, Cliffwood, NJ 07721

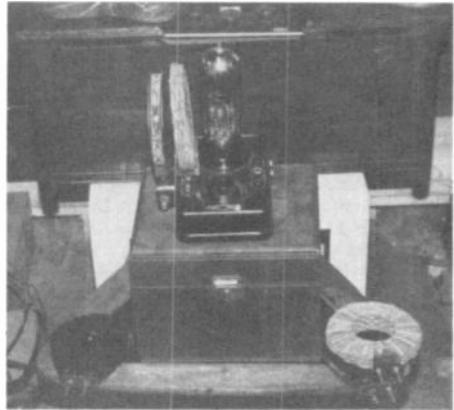
WANTED: Hallicrafters Skybuddy I, good/fair condition acceptable. Call collect: Milton Putnam. (805) 985-2756

FOR SALE: Sams Photofacts 65 to 746 - \$50, no shipping. Battery radios, horn speakers. SASE for lists. Alvin Heckard, RD1, Box 88, Lewistown, PA 17044

CLASSIFIED ADVERTISEMENTS

FOR SALE: Working Zenith A-600, Sears 7033, Granco 730, Crosley Roamio. AC radio and transmitting tubes, new Sprague 600v orange drops, 450v electrolytics. Audio tmfrs., pots by the pound, cloth-covered wire, knobs, schematics, veneer. No battery sets or cathedrals! List available. Sue Coulter, Box 11A, 1000 W. Columbus, Bak-ersfield, CA 93301

SEND ALL A.R.C. MAIL TO
Antique Radio Classified
P.O. Box 2, Carlisle, MA 01741



FOR SALE: Rec. RO 433 Loewe radio black bakelite, 11 1/2" high x 4" x 6", by G.M.B.H. Berlin Steglitz, with triple valve type tube RNF- 7, three tubes in one, 6" x 1 1/2", works on 90v battery using various coils, three black bakelite covered coils No. 35, 50 and 75, 1/2" x 4" x 6" oval, two open coils green, 5" in diameter. Radio as listed in rare tube catalogue, seldom offered for sale, very rare, unchecked, comes with L.G. folder inst. wood case 6" x 8" x 7" headphones, looks ex-fine - \$950. Art-Deco Burns horn speaker, black base neck with 5-panel, reddish with tan-white flakes (raspberry), celluloid bell, with drive out front above base, plays ex-loud, fine condition. A beautiful piece to own, hard to find, at any price - \$525 shipped UPS U.S.A. Western Electric black 5-panel 16" bell x 18 tin mike pat. 6, 1916, fine - \$75, UPS U.S.A. All postal money order or bank money order. Edison Mabry, 715 W. Longview, Mansfield, OH 44906. (419) 526-1175

WANTED: Heathkit Vibrator Tester Model VT-1. Cabinet for 90 Philco cathedral. Certain DeForest tubes and other rare ones. Frank L. Brewster, Jr., 3rd & East Ave., PO Box 615, Baxter Springs, KS 66713

FOR SALE: Deco 1933 World's Fair radio by Silvertone - best offer. Philco TV #49-1040 w/ extra chassis and CRT - \$75. Jimmy Downes, 607 E. 12th Ave., Covington, LA 70433. (504) 893-7057

CLASSIFIED ADVERTISEMENTS

WANTED: Pre-1950 Andrea, Dumont or Farnsworth televisions, consoles or table models, any condition. Richard Anthony, 2551 Andler Rd., Placerville, CA 95667

FOR SALE: RME DB 20 pre-selector - \$50. 1929 Jewell radio set analyzer, original manual, Model 199 - \$31. Clegg Model 22ER transceiver with manual - \$28. Ameco VFO Model 621, 50-144-220 MC - \$25. Ward Becht, 625 Tufts Ave., Burbank, CA 91504. (818) 842-3444

WANTED: Still wanted are enclosure for AK F-2 speaker & double volume control for AK 55C. Edsel Erwin, 1513 E. Houston Ave., Fresno, CA 93710

FOR SALE: Over 75 working radios. Glorytone cathedrals. Crosley tombstones. Interesting Deco plastics, woods. SASE for list. Ed Ripley, 2276 Holloway, Maplewood, MN 55109

WANTED: AC Super Wasp for parts. Pilot binding posts, tubes, blueprints & manuals. Dan Howard, 2940 SE 118th Ave., Portland, OR 97266. (503) 761-7799

FOR SALE: 3900 tubes, including 388 new post-WW2 tubes, 150 pre-WW2 used good radio tubes, and 25 new boxed pre-WW2 radio tubes. The balance are 7, 9 and 12 pin miniatures, octals, loctals, metals accumulated in over 32 years of servicing. Interested in selling as a package but will consider lot sale. Many extras included. Pick-up only. SASE. Harry M. Kuhles, 37 E. Pleasant Ave., Maywood, NJ 07607. (201) 845-8933

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CLASSIFIED ADVERTISEMENTS

FOR SALE

To be sold to the highest bidder by 9/20/87.

All of the following are in excellent condition with covers and will be sold in complete lots only. No duplicate items in any given lot. Number following stated year is number of different issues for that year. All items originals.

Lot #1: Radio Retailing Magazine - 1925(1), 1927(1), 1928(4), 1933(4), 1934(12), 1936(1). Total of 23 issues - best offer over \$200.

Lot #2: Radio Retailing Magazine - 1938(3), 1939(5), 1940(10), 1941(9), 1943(2), 1944(9), 1945(9), 1946(9), 1947(5), 1951(1). Total of 62 issues - best offer over \$250.

Lot #3: Radio And TV Today Magazine (these issues contain many pre-war TV sets pictured including mirror lid, as well as, many pictures of the small Bakelite colored sets) - Total of 13 issues from 1938-1940 - best offer over \$100.

Lot #4: AK Literature - 1925 AK full line catalog, 32 pages. 1927 AK full line catalog, 30 pages. 1927 AK radio instruction book, 4th ed., 48 pages. 1928 AK M37 operating instructions, 4 pages. 1928 AK M40-42-44 operating instructions, 12 pages. Total of 5 items - best offer over \$50.

Lot #5: Radio News Magazine - 1920(2), 1921(5), 1922(7), 1923(10), 1924(11), 1925(11), 1926(12), 1927(12), 1928(12), 1929(12), 1930(12), 1931(12), 1932(12), 1933(12), 1934(12), 1935(12), 1936(12), 1937(12), 1938(12), 1939(3). Total of 205 issues - best offer over \$800.

Lot #6: Early wireless catalog collection - 1909 Electro Importing Co. #6, 120 pages. 1910 Independent Wireless Co. #4, 64 pages. 1910 Brooklyn Wireless and Electrical Novelty Co., 32 pages. 1910 Thomas M. St. John Wireless Telegraph Apparatus Co., 16 pages. 1911 Manhattan Electric Supply Co., 88 pages. 1911 J.J. Duck Co., 248 pages. 1912 Electro Importing Co. #11, 192 pages. Total of 7 wireless catalogs - best offer over \$250.

Lot #7: Radio Catalogs - 1919 National Radio Supply Co., 74 pages. 1920 W.B. Duck Co. #14, 200 pages. 1921 David Killoch Co., 48 pages. 1921 Murdock Radio Apparatus Co., 24 pages. 1921 Julius Andrae and Sons Co., 32 pages. Total of 5 catalogs - best offer over \$100.

Lot #8: Radio Catalogs - 1922 Chicago Radio Apparatus Co., 48 pages. 1922 B+H Radio Supply Co., 158 pages. Neal Radio Parts Co., 12 pages. 1923 Schneitter Athletic Goods Co., 40 pages. 1924 Robertson-Cataract Electric Co., 108 pages. 1925 Everything In Radio, 36 pages. Total of 6 catalogs - best offer over \$100.

Seller reserves the right to reject all bids for a given lot. Shipping extra or can bring to Canandaigua. Bid by phone or mail.

Vinny Shea, 31 Old Green Road, Sandy Hook, CT 06482. (203) 426-4897

CLASSIFIED ADVERTISEMENTS

FOR SALE: Price plus UPS - 87 Aug. 4. (1) Tape recorder, Revere, T-1100 w/schem/parts - \$30. (2) Vomax, McMurdo-Silver, 900, old, bench, vacuum-tube V.O.M. a real Classic - \$30. (3) Hickock, D.V.M., DP100, (one of first digitals) - \$30. (4) Magazines, 5 yrs. QST 65-6-7-70-1, water logged but readable - \$5 lot. (5) Mag. 10 issues, Electronic Engineer, 69-70-1 - \$3 lot. Wm. Arnold, 27832 Lincoln Rd., Bay Village, OH 44140. (216) 835-0520

FOR SALE: Tom Swift books: #1 Motorcycle, vg - \$20. #5 Wireless Message, vg - \$15. #10 Electric Rifle, vg - \$15. #17 Photo Telephone, vg - \$15. Many others. All Types Radio TV Service Books - LSASE. J.J. Papovich, 216 Broadway, Westville, NJ 08093. (609) 456-4071

WANTED: Super Zenith VII chassis: parts, pieces, sets or information on mid-20's super-hetrodynes. Dale Davenport, 912 South 18th, Fort Smith, AR 72901

FOR SALE: Hallicrafter SX-71 - \$45. Stromberg-Carlson 520-H - \$45. Philco 40-216 console with remote control, near mint, plays - best offer over \$150, no ship. Bob Nicholson, 3423 S. Long, Topeka, KS 66605

WANTED: Good power transformer for AK 40. Federal Orthosonic one dial, for parts. Top cover for Radiola 47, will take whole radio. Scott Crossman, Box 307B, West Buxton, ME 04093. (207) 727-5763

FOR SALE: Books: Beitmen, Servicing Record Players, Auto. Changers & Wireless Recorders (e, 1941) - \$25. Radio Diagrams 1926-1938 (e, 1941) - \$20. J.J. Papovich, 216 Broadway, Westville, NJ 08093. (609) 456-4079

WANTED: National SW3, SW4, SW58 and SW34 receivers and accessories. Also buying usable parts for restoration of these radios. Premium prices paid for original coils. Dean Showalter, 36308 Panorama Dr., Yucaipa, CA. 92399. (714) 797-1782

TUBES. Thousands in stock. Send S.A.S.E. for list. Fala Electronics, P.O. Box 1376-3, Milwaukee, WI 53201

WANTED: Early open frame motor electric fans, motors, generators, medical devices, galvanometers, scientific instruments, etc. Richard Cane, 8391 N.W. 21 St., Sunrise, FL 33322. (305) 741-6838

WANTED: Old Electrical Apparatus - Test Equipment, Open-Frame Motors/Generators, Spark Units, Switchboard Meters, Bulbs, Tubes, Table Radios, Medical Devices, Books, Knife Switches, Trains & Accessories, Specialty Devices, etc. H. Andreoni, 250-D So. Lyon Ave., Hermet, CA 92343

CLASSIFIED ADVERTISEMENTS

FOR SALE: Sams Photofacts, #50-#500, 100 asst. - \$30. TV Rider's #6-#23 - \$1 each. Radio/TV tubes, new boxed, 1000 asst. - \$100. I have 301 televisions for sale/trade. Add UPS. **WANTED:** Paying over \$1000 for any pre-war television. \$25-\$500 for 1946-50 TVs. Over \$200 for 30", early color, color wheels, unusual sets. Harry Poster, Box 1883, So. Hackensack, NJ 07606. (201) 794-9606

WANTED: Loop antenna for DeForest D-7A radio. Reproduction would be OK. Bob Turner, 5319 Minnetoga Terr., Hopkins, MN 55343. (612) 938-7809

SEND ALL A.R.C. MAIL TO
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P.O. Box 2, Carlisle, MA 01741

HELP: Will Mr. Wallace from Georgia mail me his address. I've lost it. Dennis Hilberg, 804 Ravine St., Decorah, IA 52101

FOR SALE: Orpheus 5-tube console with pull-out desk, 2 door front. Kelly Johnson, Bergeson Dr., Granite Falls, MN 56241

WANTED: Zenith radios: Models 12S232 table model, 7S261 and 15U270 consoles. Arie Breed, 510 Lake Dr., Ottumwa, IA 52501. (515) 682-6925

FOR SALE: 1938 Capehart radio/phone mechanism in beautiful condition, no cabinet, toc heavy to ship - \$350. Vernon Cox. (301) 292-1333

FOR SALE: Sam's Photofacts #1 thru #1000 - \$3.00 each postpaid. For correspondence or research, send SASE. Joy Electronics, 2905 Lackland Rd., Suite C, Dept. A, Fort Worth, TX 76116-4155

SCHEMATICS for Radios, Power Supplies, Amplifiers, Plus. 1919 to 1945. Send SASE, \$1.00 per copy, brand name and model number. Gene Corn, 3 Barton St., Greenville, SC 29609

WANTED: E.H. Scott Sets: Any Worlds Record, Shield Grid 9, Symphony, 16/18, Masterpiece, Super XII, FM Tuner. All replies answered. Any leads appreciated. Kent King, 3637 Liberty Road, Delaware, OH 43015. (614) 363-3219.

WANTED: Keys, bugs and telegraph instruments. Also related parts and publications. Will purchase or trade like kind. I am a collector not a dealer. This is an affair of the heart, not the wallet. Warren Berbit, K2UVV, 46A Mile Road, Suffern, NY 10901

WANTED: Scott Philharmonic in excellent condition. Any cabinet considered. John Sacra, 1720 Solomon Rd., Charlottesville, VA 22901. (804) 293-9985

CLASSIFIED ADVERTISEMENTS

FOR SALE: Steel needles – \$3 for 100. 10" record sleeves – \$15 for 100. Machine & Parts Catalog – \$3. Victorian Talking Machine Co., PO Box 983, Pine Bush, NY 12566

SERVICES: Transformer Rewinding Service. Audio, power, RF & specials. Send SASE for information. Peter Yanczer, 835 Bricken, St. Louis, MO 63122

WANTED: Radiola 30. Tracy Sands, 1520 W. Juno Ave. #C, Anaheim, CA 92802. (714) 491-8546, daytime

FOR SALE: Zenith Trans-Oceanic B-600 – \$50. Early box kit radio, 2 dials, 4 tube w/BMS & Acme parts, complete and well done – \$125. P. Currie, R1 B77, Denmark, ME 04022

WANTED: Emerson Patriot table Model 400, any color combination. Philip Collins, 10965 Rochester Ave. #201, Los Angeles, CA 90024. (213) 479-0167

FOR SALE: Antique phonographs & juke boxes. 10,000 78 & 45 records. 1100 new vacuum tubes. SASE. Tony's Trading Post, 209 East Park St., Butte, MT 59701

FOR SALE: Rider's books, 24, 25, 27. Auto record changers. Cathode ray scopes. AK 3.5 inch knobs. Offer. James Stueber, 8920 Lexington Ave. NE, Albuquerque, NM 87112

FOR SALE: Zenith R-7000 Transoceanic, 12 band, as new cond. – B.O. Bill Thompson, 1095 NW 147 St., Miami, FL 33168. (305) 685-1993

WANTED: 1920's Indiana battery sets such as Elmco, Cardinola, Okay, Diamond-T, King Cole/Everyhome, Melody, Amacodyne, Tilman (6-tube Challenger), Huntington, Hammond, Showers/Future, Aladyne, Lyradion, Slagle, Wilson, and Washburn Burner all wave three-dial set with plug-in honeycomb coils. Need a 24x7x3/16 inch bakelite panel. Want Wilson radios of the 1930's. Michael Feldt, 12035 Somerset Way E., Carmel, IN 46032. (317) 844-0635.

FOR SALE: Large radio collection 1927-1940's, including owner's manuals for Kennedy Royal 16, Model 20, Model 15 and Scott Phantom. Also autographed picture of Amos & Andy, & radio stations they were on from Pepsodent. Also radio & TV tubes, knobs and parts. Plus about 100 radios. Metal & plastic small table models from 30's up, tombstones metal cabinets, and floor models. Example: Metal Apex, Crosley Showbox, Metal Stewart Warner, Kolster Model K-20, National audio transformer Model S101, Trans-Oceanics, floor models Westinghouse, RCA, Philco, G.E. Atwater Kent Kiel table, Crosley grandfather clock and much more. May be seen. LaVerne Hoppe, 2302 Wismer, St. Louis, MO 63114. (314) 427-3529 after 6 p.m.

CLASSIFIED ADVERTISEMENTS

FOR SALE: 14 year collection of radios, speakers, radio advertising and other radio-related items. Send SASE, two stamps, for list available Sept. 15. Kevin Bosomworth, 2225 Bridge, Albert Lea, MN 56007

FOR SALE: Scott 28 tube AM-FM Phantom Deluxe. Philco 70 grandfather clock radio. Philco 51 mantel clock radio. AK 206. RCA 128. GE S22. Philco 620 table model. Radiola 64. Philco chair-side Model 37-620. Philco chairsides with remote speakers Models 14 and 19. Majestic 51 on thin legs. 100 assorted consoles. **WANTED:** GE K60 & K80. RCA 140. AK 165, 275, 90, and other A/C sets. RCA Victor Models R74, R76, R77, 28B, 28C, 28D, 28E. Crosley Show Boy & Elf. 1930's Emersons. Grandfather clock radios. Cathedrals. Unusual table models to 1935. I will be at Canandaigua. John Kern, RD#2 Box 457, Quakertown, PA 18951. (215) 538-2128

WANTED: Majestic #511. Zenith #5-R-312. Philco #604C, #37-610-T. Pix's in "White Book." J. Downes, 607 East 12th Ave., Covington, LA 70433. (504) 893-7057

FOR SALE: Radiola 17 with hood, good rectangular cabinet, plus Radiola 18 chassis with tubes – \$55. Prefer pickup. R. McRoberts, WB9ZIP, PO Box 934, Racine, WI 53405. (414) 633-5496

WANTED: Chassis or power transformer for AK 567 cathedral. Also tennis ball shape 01A tubes. J.L. Acciavatti, PO Box 231, Southboro, MA 01772. Call eves. (617) 476-3229

FOR SALE: Zenith Model 4R battery set, by Chicago Radio Laboratory, works, restored – best offer. Russell Schoen, E. 7340 Neitzhe Rd., Clintonville, WI 54929. (715) 823-6744

WANTED: Anxiously seeking Hallicrafters S-35 panoramic receiver. Also want nice Hallicrafters SX-28A - in California. Sam Thompson, W6H DU, 1031 San Antonio Ave., Alameda, CA 94501. (415) 521-1429

FOR SALE: Firestone Air Chief table radio – \$65. Airline 74BR, small ivory – \$40. AK 246 – \$90. Lots of 30's-40's table models. Long SASE for picture list. **WANTED:** Belmont 6D111. Emerson Mickey Mouse or Snow White. Small Arvins. J. Johnson, 560 Meadowview Lane, Greenwood, IN 46142

FOR SALE: Ol' battery sets, speakers, tubes and magazines. Wire & crystals for builders. Chalcopyrite, Boronite, zincite & galena for crystoflex builders. Picture list of radios available – send SASE. **WANTED:** Any & all horn speaker parts, bases alone, horns or whatever, please. I have 2 working Crosley chassis that will fit a 169 or 5'er cabinet. I'll swap 1 for a 169 cabinet or a Philco 20 cabinet. Bob Barnes, 511 N. Chestnut, Monroe City, MO 63456. (314) 735-2945



COMING RADIO EVENTS



NEW YORK - Sept. 23 - 26

ANTIQUE WIRELESS ASSOCIATION
NATIONAL CONFERENCE

Canandaigua - Sheraton Inn

World's Largest Antique Radio Meet
4-Day Flea Market - 3 Auctions - Contest
2 Banquets - Visit A.W.A. Museum
Seminars - Theremin Demonstration
Collector's Forum - Ham Symposium
And more ...

Sept. 23:

- 12 Noon - Flea Market Opens
- Meet Begins
- 7-10 p.m. - AWA Museum Open

Sept. 24:

- Sun-up - Flea Market
- 3 p.m. - Collins/RCA Patent Case
- 4 p.m. - High-Power Broadcasting
- 7:30 p.m. - Theremin Demonstration
- 8 p.m. - Comm. Rec. Auction

Sept. 25:

- Sun-up - Flea Market
- 9:15 a.m. - Ladies' Trip & Luncheon
- 8 a.m. - Equip. Contest Check-In
- 9 a.m. - Amateur Radio Seminar
- 10 a.m. - Vacuum Tube Auction
- 11 a.m. - General Auction
- 4:30 p.m. - Alexanderson Alternator
- 7 p.m. - Dinner & Contest Awards

Sept. 26:

- Sun-up - Flea Market
- 9 a.m. - Collecting VHF Equip.
- 10 a.m. - DeForest and the Audion
- 11 a.m. - Mobile Radio Development
- 12:30 p.m. - Ladies' Luncheon/Program
- 1:30 p.m. - Collecting Foreign Keys
- 2:30 p.m. - Making Radio Tubes
- 3:30 p.m. - Show & Tell
- 7 p.m. - Grand Banquet & Awards
Guest of Honor

Dr. Rudiger Walz, *Funkgeschichte*

Sept. 27: 9:30-11:30 a.m. and 2 - 5 p.m.
AWA Museum Open

Meet Information: Lauren Peckham,
Ormiston Rd., Breesport, NY 14816
or A.W.A., Main Street
Holcomb, New York 14469

MINNESOTA - Sept. 4 - 5

NORTHLAND ANTIQUE RADIO CLUB
"RADIO DAZE 87" FALL MEET

Bloomington - Best Western Hotel Seville
8151 Bridge Rd. - (612) 830-1300

Sept. 4: 2 p.m. - Flea Market
Meet Begins

5 p.m. - Tour Pavek Museum

Sept. 5: Dawn - All Day Swap Meet
9 a.m. - Contest Check-In
11 a.m. - Contest Room Open
12:30 p.m. - Lunch & Program
2:00 p.m. - Technical Programs

Activities for the family, too!

Information: Greg Farmer - (612) 571-6062
Jim Thompson - (612) 822-4000
NARC, P.O. Box 18362, MPLS, MN 554-18

TEXAS - Oct. 16-18

VINTAGE RADIO & PHONOGRAPH
SOCIETY and the A.W.A.
1987 ANNUAL CONVENTION

Dallas - Holiday Inn - Southwest

Old Equipment Contest, 18 Categories
Auction, Over 300 Lots

Saturday - Technical Sessions
Saturday Evening - Banquet & Awards
Sunday Morning - Swapfest

Information: Mike Sherman
Box 165345, Irving, TX 75016
(800) 527-9250 (outside Texas)

MARYLAND - Sept. 12

MID-ATLANTIC RADIO CLUB
MEETING

Laurel, Md. - Applied Physics Lab.
Johns Hopkins Univ. - 7:00 P.M.

Information: Joe Koester, 249 Spring Gap
South, Laurel, MD 20707 (301) 725-4229

MICHIGAN - Oct. 11

MICHIGAN ANTIQUE RADIO CLUB
FALL MEET

Dearborn - Ford Field
Information: Jim Clark (517) 323-9595

RADIO CLUB EVENTS

To meet printing deadlines, A.R.C.
must have announcements of club
events by the fifth of the month
preceding the month of the event.
Often notices in newsletters arrive
too late to be included on this page.

BUSINESS CARD ADS - \$10.50 FOR 3 MONTHS

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100, Steel Needles - \$3.00
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Pre-1900**

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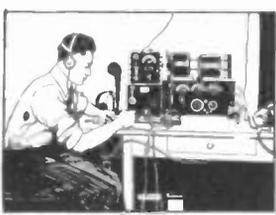
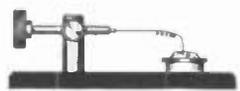
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3. Grebe Syncrophase Chassis &
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No Tubes.....65
4. Vimco Radio Lamp (in box)65
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6. Westinghouse Model RC Radio175
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D-21 TV VARIETY - 1951,1952,1957
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Three classic kinescopes aired in 1949. Also includes a 25-minute documentary from 1954 on the history of television

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DISPLAY ADVERTISEMENTS

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Radio Equipment & Supplies - 168 page reprint	12.50
1927 Radio Encyclopedia - Gernsback, 179 pgs.	11.95
Crosley Radio Catalog, circa 1923, 32 pages	4.00
Westinghouse Apparatus, circa 1920's, 8 1/2 X 11	4.00
Donate Less To The IRS (a must for every collector)	6.95
How To Repair Old-Time Radios	8.95
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Flick Of The Switch 1930-1950, 312 pgs., 1000 illus.	11.95
Most Often Needed Diagrams 1926-1928, 600 models	11.95
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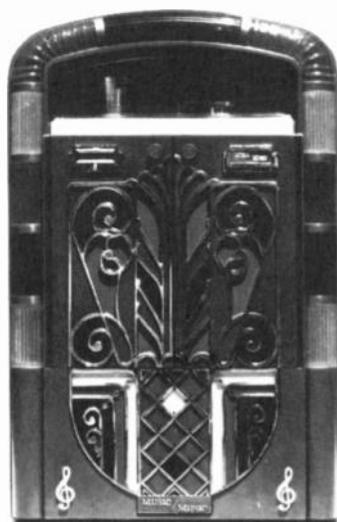
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Reproduction radio measures 12 1/4"H x 11 3/4"W x 7"D; weighs 5 1/4 lbs.

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347A.....\$8	348A.....\$8
350B.....\$24	VT 25/25A.....\$6
	216A.....\$15
	244A.....\$6
	262A.....\$12
	274A/B.....\$30
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 We pay much more than any dealers in the U.S.A. Please inform us of their prices
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G.E. Variable Reluctance Cartridges: RPX 040/041/050, VR2, etc.....\$20
 Needles for above G.E. Cartridges: for 33/45 RPM \$2 for 78 RPM.....\$4
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We try to correct spelling errors, so when using an uncommon word or manufacturer which looks similar to a common word or manufacturer, note it so that we do not "correct" it. Editor's comments are in [brackets].

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Publisher reserves the right to edit ads without notification to the advertiser and to reject any ads. Publisher is not responsible for errors due to illegibly written ads or for any other reason; if requested, the ad will be run in the next available issue at no charge for errors made by A.R.C. All ad rates and details are subject to change by the publisher.

CLASSIFIED AD DETAILS

Classified ads must have a standard heading such as **WANTED, FOR SALE, FOR TRADE, FOR SALE/TRADE, SERVICES, HELP**, etc. This heading is the only bold or all-capitalized words allowed in the ad. Capitalize only manufacturer names, model names, etc. Wanted and For Sale ads are mixed together to encourage the reading of all ads, including the Wanted ads. This standard ad format makes scanning the ads easier for readers who are searching only one category.

Before writing your ad, please look over the ads in a recent issue of A.R.C., and try to write your ad in the same style.

To encourage varied content of the ads, multiple insertions of the same classified ad are limited to two successive months. (To run an ad continuously, use a boxed-classified or display ad.)

CLASSIFIED AD COSTS

Subscribers:

First 20 words: **FREE**. Write **SUB#** on ad.

10¢ per word for extra words over 20

10¢ per word for a shaded ad (count all words including free words.)

Non-Subscribers:

20¢ per word plus

10¢ per word for shaded ad.

Please do not forget to send in the extra 10¢ per word when your classified ad runs over the free 20 words; your payment will be appreciated, and it will help to keep A.R.C. healthy.

COUNTING WORDS

The standard headings: **WANTED, FOR SALE, etc.**, count as one word each time used in an ad.

Name, address and telephone number, count as 6 words, regardless of length. Ham call letters and business name can be included in the 6 words and do not count extra. (Note: "Jim, (111) 111-1111" also counts as 6 words.) So, please include complete name & address in your ads.

After the above "seven" words, 13 words are left for the rest of the text of a free 20-word ad.

BOXED CLASSIFIED AD DETAILS

Boxed classified ads run unchanged for three months or more. No words are free. Ads may be shaded and may include bold and all-capitalized words freely. The ad need not begin with For Sale, etc. Boxed classified ads are placed with the display ads on the lower portion of the page.

BOXED CLASSIFIED AD COSTS

Minimum run is 3 months, prepaid.

Nonshaded ads:

10¢ per word for all words,* none free; plus

10¢ per word for each bold word plus

10¢ per word for each all-caps word.

Shaded Ads:

20¢ per word for all words* plus

10¢ per word for each all-caps word.

Note: All words in shaded ads are bold.

Non-Subscribers:

Add 10¢ per word to above costs.

*Three of the total words can be bold-all-caps at no extra charge.

PHOTO & DRAWING DETAILS

The deadline for ads with drawings or photos is the first of the month.

Although the column on the magazine page you are holding is 2 1/4" wide, the artwork given to the printer has columns 3 9/16" wide. The printing process reduces everything to 83% of the original.

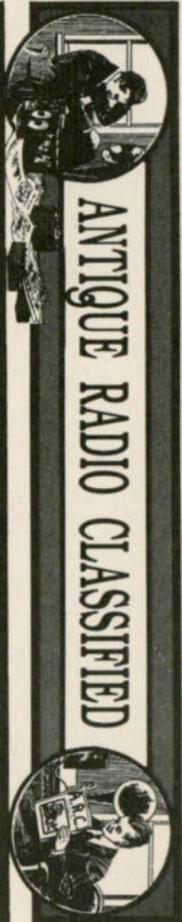
Drawings should fit within the 3 9/16" column. If a drawing is too large or too small, it must be re-sized photographically for an extra charge. Photos may be of any size since all must be converted to a half-tone for printing; in the process, the photo size can be changed.

PHOTO AND DRAWING COSTS

One-time charge of \$5.00 (no charge for drawing if size is OK) plus

\$1.00 per 1/2 inch (on artwork) per month.

Drawings also may be requested to be run free and will be printed at the option of A.R.C. and as space permits.



A.R.C., P.O. Box 2, CARLISLE, MA 01741
RETURN POSTAGE GUARANTEED

SECOND CLASS
POSTAGE PAID
at Carlisle, MA

TO:

SUB# = 28-722
CLARENCE E. FILLEY
1109 SOUTH 2ND ST
HAMILTON
MT 59840
EXP = SEP88

POSTMASTER: Deliver Promptly

CLASSIFIED AD
DEADLINE SEPT. 10TH