

# THE HORN SPEAKER

MORE AREA OF  
EASY TO READ  
CLASSIFIED  
ADS THAN ANY  
OTHER OLD  
RADIO  
PUBLICATION

## SUPER-HETERODYNE RECEIVERS

In the experimental radio field there is a great general desire to receive over long distances. While this is quite possible under certain conditions, it is also impossible under other conditions. Signals from a great distance are weak when picked up by a receiving antenna and it is necessary to amplify these signals at radio frequencies before rectifying and changing to audio currents. It is immediately thought that if the signal is very weak, it is only necessary to use a large number of amplifying units to raise the signal to a readable audibility, and this would be true if there was no static. Fig. 15 illustrates exactly what happens. Accordingly if the signal is weaker than the local static it is useless to try and obtain a readable signal through the use of considerable amplification. The proper way to afford long range reception is to increase the power of the transmitting stations, so that the received energy at a distance will be greater than the static. In the winter when static is at a low ebb, powerful receivers can be used for long wave reception. It seems that static is less prevalent at short wavelengths, 10 to 100 meters than at the longer wavelengths and for this reason it may become advisable to carry on broadcasting transmission on these lower wavelengths. The transmitted energy at these short wavelengths also seems to have greater traveling ability, as the short wave programs from E. Pittsburg and Schenectady are easily copied in Europe with one, two and three tube sets, under favorable conditions. Furthermore allowing 10,000 cycles per transmitting station, there is room for 600 different wavelengths between 25 and 50 meters, while there is only room for about 50 different non-interfering wavelengths between 300 and 600 meters.

These advantages point toward the use of short wavelengths in the near future. To facilitate the reception of short waves, it is suggested that all tuning coils in a receiver be provided with contact prongs and sockets, in this manner the coils can be easily removed and smaller inductances quickly inserted for short wave reception.

One of the best known methods of reception of short wavelengths is the Super Heterodyne system and the use of this system is described in detail in this chapter. It is pointed out that while it is possible to reflex tubes to perform double duty in this system, the disadvantages are greater than the advantages secured and is not recommended. It is thought that the experimenter desires the best and is willing to provide the extra tube or two to secure the maximum results. All the designs shown here are free from reflexing.

The Super-Heterodyne was not discovered by accident, it was the result of original thought to overcome a very difficult problem; the problem was the possibility of amplifying radio frequency currents at very high frequencies.

Each wavelength has a certain frequency; for example, 10,000 meters is a frequency of 30,000 cycles; 5,000 meters is 60,000 cycles; 2,500 meters is 120,000 cycles and 100 meters is 3,000,000 cycles. It is noted that as the wavelength decreases the frequency increases. When designing apparatus to use at these extremely high frequencies, the ordinary electrical engineering formulae do not hold true. An instrument which may be a condenser at 60 cycles might prove to be a resistance at 3,000,000 cycles.

## REALISTIC SET OF VIEW

How about reading as if you were listening to the first live broadcast of a live war brought to you by the voice of H. V. Kaltenborn in 1936 of the Spanish Civil War close to Hendaye France? Remember this is the first live battlefield broadcast.....

(Sound of machine guns) Those are the isolated shots which are being exchanged by the front line sentinels on both sides of this Civil War. It is part of the battle of Irun.

(Sound of dog barking) Directly in front of me as I look through the dark of this midsummer night is a bright line of fire rising from the most important single factory in the city of Irun. Late this afternoon, we watched a Rebel airplane circling overhead and dropping bombs. One struck directly into the center of the match factory which began to burn and which has since been blazing brightly so that the evening sky is lit up for a great distance all around. To the left, along the road that leads away from the city of Irun, the road over which the Government forces have been maintaining their communications, I see two flaming automobiles, both struck by some sort of fire that set them alight. They have been taken off to one side of the road where they are now blazing away . . .

We happen to be straight in the line of fire. Fortunately for us, the bullets are all going high. Twice this afternoon while we were waiting for an opportunity to link up with New York, our wires were cut. And now finally we have put the radio machinery, the modulating devices and so on, inside of a house and I'm standing around one corner of the house with the microphone in the open but with a good thick mortar wall between me and the bullets that are constantly whizzing past. We can't understand why it is that the Rebels have arranged their fire in such a way that most of their bullets seem to go wild and pass over this farm and reach as far as the city and the streets of Hendaye. We have been cut off all day. While I have been talking we have just had word that perhaps if the fire continues to be quieted down, someone can come and call for us after this talk is done; but our endeavor to get away from here in the course of the day has been entirely in vain, because the Hendaye police declared that no one would be permitted to go out on the streets on account of this hail of bullets. They cleared all the streets of people, after several were killed and a number of others injured.

(Sound of firing)

To enable long distance reception, radio frequency amplification is very essential. An ordinary Detector tube such as a Radiotron UV200, 201A or UV199 requires a fairly strong signal to give good response in the telephones. As a matter of fact, if one signal applied to the detector grid is twice as strong as a second signal, the detecting efficiency will be four times as great on the stronger signal. Looking further, it will be appreciated that very weak signals will not be sufficiently strong to operate the detector tube at all, unless they are amplified to a larger order of magnitude first. The possibilities of amplifying these weak signals at long waves is an easy problem but to secure good amplification at frequencies over 200,000 cycles for more than one stage presents many difficulties.

All ordinary amplifying transformers designed for short wave work are only efficient over a very narrow wavelength band. For example, if the transformer is advertised to function over a range of 200 to 500 meters, it will be found that the amplifying efficiency is highest at one particular wavelength, say 350 meters. Each side of this peak, the efficiency drops very rapidly. In order to cover a wavelength range of 160 to 850 meters with such transformers, it would be necessary to have about 10 sets of transformers, each suitable for a narrow band of wavelengths.

Tuned Radio Frequency Amplification can be used to good advantage for short wavelengths. This system consists of a number of air core transformers, the grid circuit of each tuned with a variable condenser, to the wavelength that it is desired to amplify. However, in

In order to cover a wide wavelength range with the tuned method of amplification, it is necessary to have more than one transformer. By mounting a variometer and a variable condenser on the same shaft, a wavelength ratio of 8 to 1 could be obtained; for example, 150 to 1,200 meters, but this would entail special complicated design to enable functioning as a transformer. Further on, tuned radio frequency amplifiers are treated separately, especially for use in connection with Super-Heterodynes.

Armstrong reasoned that if it was difficult to amplify a signal at high frequencies, why not change the frequency to a lower value where radio frequency amplification could be carried on very efficiently and without difficulties. This is exactly what the Super-Heterodyne does, the incoming signal which may be any wavelength from say 160 to 850 meters, is changed to a higher wavelength, say 10,000 meters and the amplification carried on at that advantageous wavelength. On first thought, one would think that the change would destroy the pitch of a spark signal, or the reproduction of voice, but this is not true. The Super-Heterodyne method of reception gives the nearest approach to perfect reproduction of broadcast entertainments obtainable.

The Super-Heterodyne consists of three important sections, each one of which may be very simple, or very elaborate. First, there must be a means of collecting the incoming signal, such as a loop connected to an ordinary detector circuit, and means provided to tune the loop to that signal. Second, there must be a source of oscillations, the frequency of which can be varied from, say, 300,000 cycles to 2,000,000 cycles. Third, there must be an efficient radio frequency amplifier, adapted to be particularly efficient on a pre-determined frequency, for example, 10,000 meters.

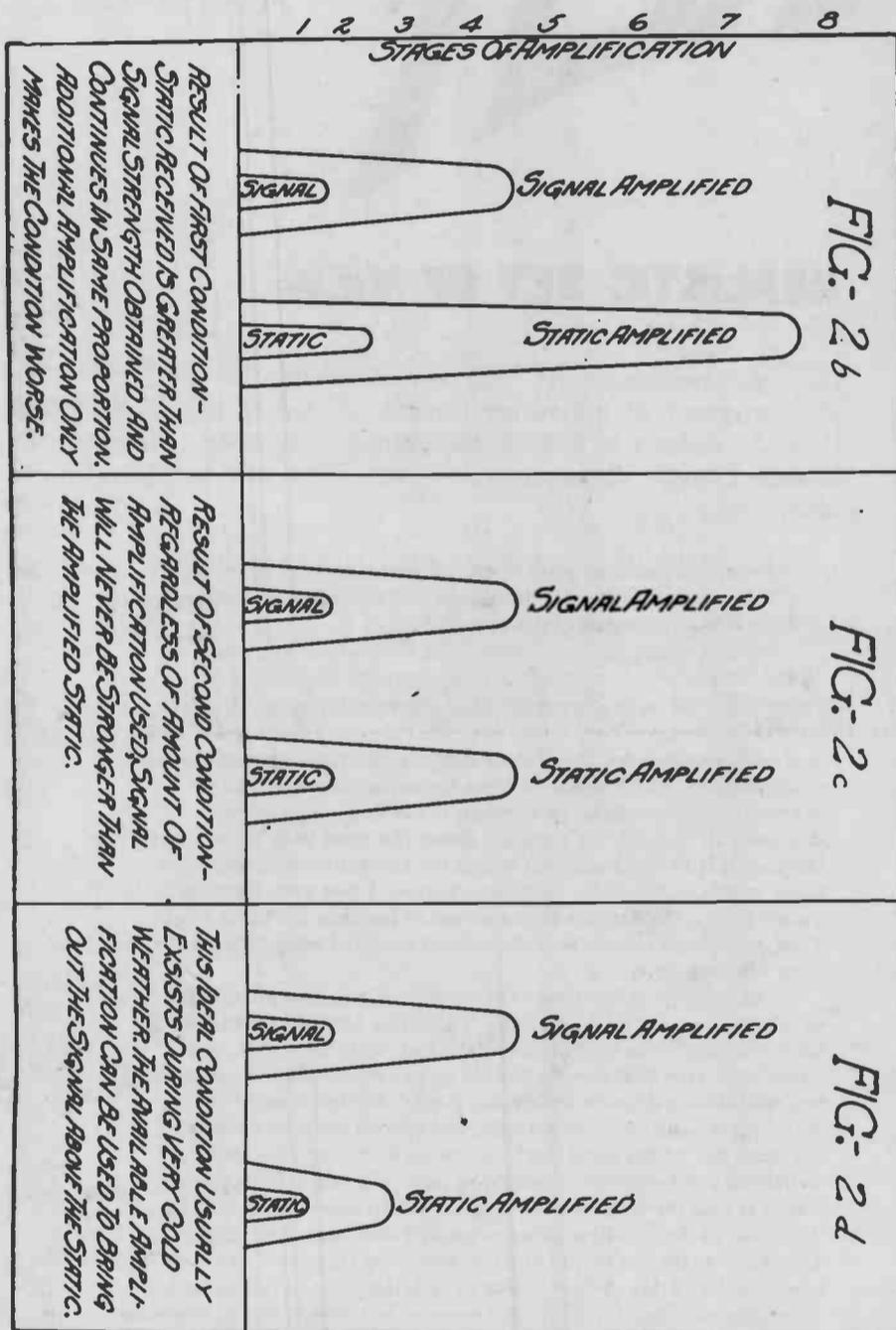
Before we describe the Super-Heterodyne action further, it might be well to describe the plain Heterodyne action. Fessenden discovered that if we had two independent sources of oscillations, each of a different frequency, there would be generated a third source of oscillations, the frequency of which would be the difference between the original two. For example, if one oscillator is working on 800,000 cycles and the second oscillator working on 801,000 cycles, there would be a resultant note of 1,000 cycles. Oscillations below a frequency of about 20,000 cycles are audible to the human ear. Oscillations above that frequency are inaudible.

Suppose, now, that a broadcast station is transmitting on 400 meters; this is equivalent to a frequency of 750,000 cycles, and that we have a loop tuned to this frequency and feed into a tube detector. Now, suppose we have a radio frequency amplifier adjusted to receive 10,000 meters (30,000 cycles) very efficient, the input of this amplifier coupled to the plate circuit of the loop detector. Then if we adjust the local source of oscillations (oscillator) to 780,000 cycles or 720,000 cycles and couple same to interact with the oscillations in the loop, a third component of 30,000 cycles will be set up (an exact reproduction of the original signal) forced through the coupling device in the detector plate circuit and amplified at the radio frequency value of 30,000 cycles. At the end of the radio frequency amplifier must be placed a second detector tube to provide rectification to bring the signal to audibility. After the rectification, the signal may be still further amplified at audio frequencies.

A typical arrangement of tubes for such a receiver would consist of a first detector, local oscillator, three stages of radio frequency amplification, second detector and two stages of audio frequency amplification, a total of eight tubes.

Considering the Heterodyne action in more detail to enable it to be thoroughly understood. Suppose we strike the note C on the piano in one of the octaves, we hear a certain note; now if we strike the note A we hear a different note and if we strike both together, in addition to the original notes being there, a third note is heard, due to the original two.

Referring to Figure 20. Suppose Oscillator No. 1 is generating oscillations at the rate of 750,000 cycles corresponding to a wavelength of 300 meters. Now, if the receiver is tuned to 750,000 cycles, there

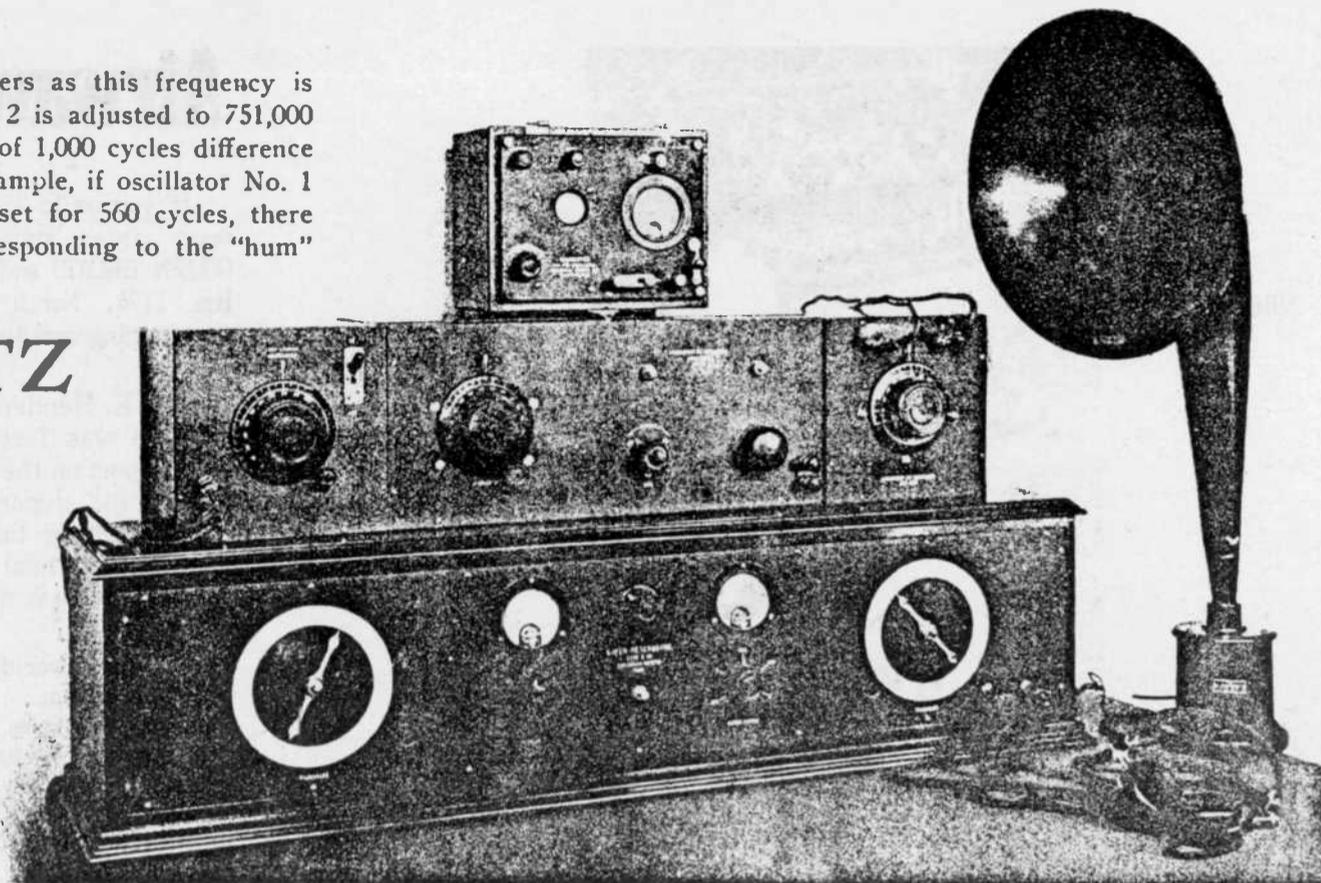


a three stage amplifier of this type it would be necessary to have three controls, as each stage must be in exact resonance with the incoming wavelengths. This disadvantage can be overcome ingeniously by mounting the three variable condensers on a common shaft and have them rotate simultaneously. In this manner the three stages are tuned through the use of one control. However, there is still a further disadvantage not so easily overcome. An ordinary inductance and variable air condenser in parallel will give a wavelength variation of approximately  $2\frac{1}{2}$  to 1. For example, a certain inductance in parallel to a variable condenser having a maximum capacity of .0005 M.F. will tune from a wavelength of 200 to 510 meters. The same condenser with a larger inductance would tune from 400 meters to 1,000 meters.

will not be any audible signal in the receivers as this frequency is above audibility. However, if Oscillator No. 2 is adjusted to 751,000 cycles or 749,000 cycles this third component of 1,000 cycles difference will be heard in the receiver. For another example, if oscillator No. 1 was set for 500 cycles and Oscillator No. 2 set for 560 cycles, there would be an audible note of 60 cycles, corresponding to the "hum"

# LEUTZ

The classic radio on the right is shown to express the quality of radio that Charles R. Leutz, the writer of the surrounding super-hetrodyne article, designed. These 1924 precision sets engineered by Leutz and constructed by a competent craftsman are the most coveted radio to collect. Unfortunately, or maybe not, Leutz had no license agreement to sell a complete unit.



MONTAUK POINT INSTALLATION FOR RECEPTION FROM ENGLAND

of a Tungar rectifier transformer. In actual practice of radio telegraphy, one source of oscillations comes from the transmitting station and a local source of oscillations used to provide the difference in frequency. This difference is called a "beat" and the note, the "beat note."

The receiver can be made to oscillate to form the second source of oscillations, but it is obvious that if the receiver is to produce oscillations of a different frequency than the incoming wave it must be tuned higher or lower than the incoming wave. This means that the receiver cannot be tuned to exact resonance with the signal and there is a loss of signal audibility. During the change of frequencies, or heterodyning action, an amplifying action takes place known as the "Heterodyne Amplification," amounting to 100 or 150 times amplification or almost equal to one stage of audio frequency amplification.

It must be remembered that if the incoming signal is modulated, or has decrement, it is not necessary to employ any local source of oscillations for an audible signal and a good operator will never use an oscillating detector to receive radio phone broadcast performances. The oscillating detector not only interferes with the neighboring receivers, but will not give good quality of reproduction or stability.

Likewise in a Super-Heterodyne the radio frequency amplifier must not oscillate. When the amplifier oscillates, beat notes are set up due to the difference between the amplifier frequency and oscillator frequency and this distorts the incoming signal. Oscillations are prevented by turning the potentiometer "Stabilizer" arm toward the positive side. A radio frequency amplifier tends to oscillate as the grids are placed negative, and maximum amplification is obtained at a point just below where oscillations start. A best adjustment for the relation between the filament temperature, plate voltage and grid bias potential will be found for good quality of reproduction. It is usually best to work the grids about 4 volts positive, corresponding to the potentiometer being placed 30 degrees in the increase direction.

It would be possible to operate with the radio frequency grid potential full to the negative side of the battery. The only advantage would be a reduction in plate current, but it would not give increased amplification. As this negative potential creates undesirable oscillations in the amplifier, it is necessary to compensate for this action. The oscillations are due to grid-plate coupling either in the individual tubes or even between the different tubes in cascade through the improper distribution of connecting wires. The tube capacity coupling may be neutralized by the Hazeltine method or several other methods that give the same effect. However, as just pointed out, this will not increase the amplification and on the other hand unless the transformers are of very special design, there will be a very noticeable reduction in the amplification obtained.

Main C-10 Super-Heterodyne in lower center.

Laboratory

Oscillator directly above C-10 unit, this oscillator is set to wavelength of station desired and used as an artificial signal to make preliminary tuning adjustments. Wavemeter used by reaction method on oscillator to check wavelength setting of the Super-Heterodyne and Oscillator.

Units on left and right of Oscillator are special Filters to eliminate any interfering signals on wavelengths close to the desired wavelength.

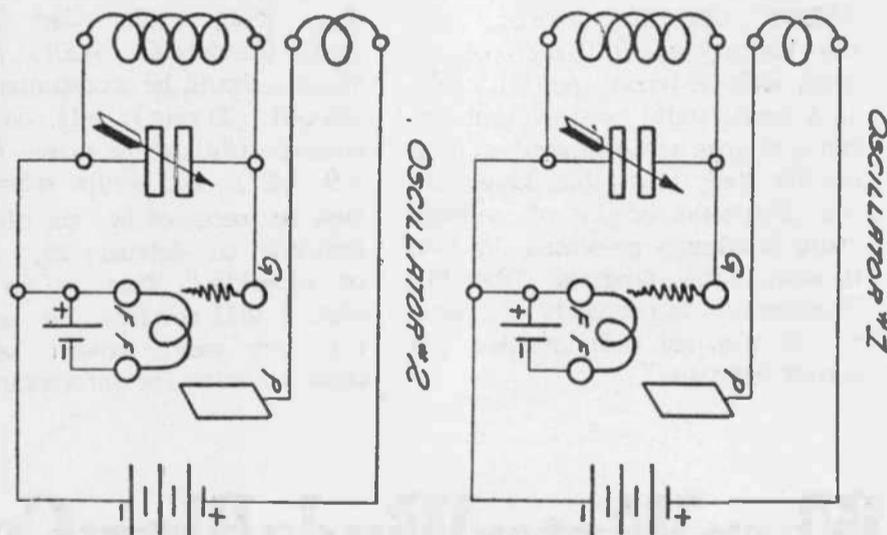
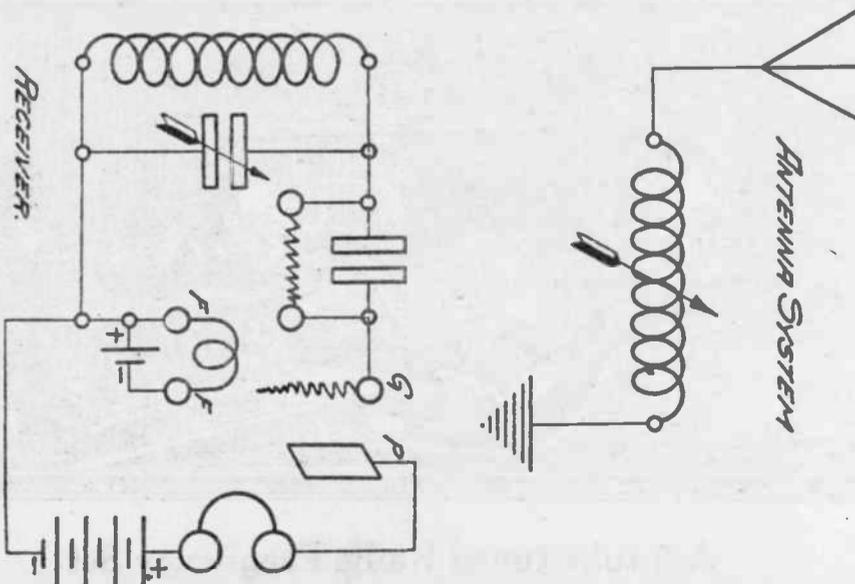


Fig. 20





NBC photo

This was the first televised sporting event—a baseball game in Manhattan between Columbia and Princeton, May 17, 1939.

# Dial To Tune THEATER

## VINTAGE RADIO LINEUP

Timothy Templin Acord in the SPERDVAC RADIOGRAM reports, "In the Washington, D.C. metropolitan area, WAMU-FM (known as "88.5 FM") is a public radio station that has had a vintage radio lineup on the air for some time. This January is the 21st anniversary of vintage radio broadcasts presented by John Hickman. His program, "The Big Broadcast," is currently on from 8 to 10 p.m. est both Saturday and Sunday evenings."

RADIO SCRIPT WRITING COMPETITION American Radio Theatre (A.R.T.) is now accepting entries for their annual Radio Script Writing Competition. Barbara J. Watkins in SPERDVAC RADIOGRAM writes, "A prize of \$500.00 is being offered for the most creative use of the audio medium. For an official entry form, contest rules, writer's guidelines and sample of preferred script format for 1985 contest, write to: American Radio Theatre, Dept. RSWC, 1616 West Victory Blvd., Glendale CA 91201. All Requests should be accompanied by a stamped (20 cent), self addressed envelope (#10 letter size - 4 1/8" x 9 1/2"). All script submissions must be received by the close of business on February 28, 1985 to be eligible." Time is so close, most of will now have to wait until next year, anyway, we know where to write for information.

# When Winter Winds Blow Cold



A 5-tube tuned Radio Frequency Set

# Airwaves

If you would like to have a book about what came out of your vintage radios, you should give Ray Poindexter's book, GOLDEN THROATS and SILVER TONGUES a try. His address is P. O. Box 1174, North Little Rock, AR 72115. The following is an interesting sample.

W. K. Henderson had inherited the Henderson Iron Works, and he was forty-nine when he put KWKH (his initials), Shreveport on the air in 1925. He personally became famous (or "infamous," depending on the listener's point of view) with his nightly biting talks delivered in a folksy manner. He was especially critical of chain stores and the Federal Radio Commission. Here is a 1930 example:

Hello, world. It's 8:00 o'clock. This is old man Henderson talkin' to you. . . . My friend, this station KWKH is supposed to be on 850 kilocycles, and we are bein' interfered with by several other stations, powerful stations—WABC in New York. That's a chain outfit. They drowned us out up in that part of the country, doggone 'em. Then there's that Sears Rareback outfit, WLS in Chicago and WENR. They have plenty of power, and while they may be on their wavelength, they sideswipe us all over the country, doggone 'em. I wanna say this to you, my good friends and listeners. I don't believe that those stations are doing this purposely. The fault is with the Federal Radio engineers. They have put these stations too close together. There should be a separation of more kilocycles. But I'll say this, if I was one of these chain stations, I'll guarantee you they would clear it up mighty quick.

My friends, I want you, everyone one of you, to demand of that branch of government, the Federal Radio Commission, that they have their engineers figure out a channel, 850 kilocycles, that we may use that you may hear us that we will not be interfered with. There's no excuse for this. All the chain stations are using cleared channels, the best wavelengths, and they should be put on one wavelength, giving a place for independent stations. But that's not the idea this day and time. The idea is to chain everything, confound it and plague take it. You wanna write to yore senators, you wanna write to yore congressmen, and you wanna demand that the independent stations have equal rights as to kilocycles and as to power and so forth. . . .

## SPECIFICATIONS

**Circuit:** Two stages of tuned radio frequency amplification, detector and two stages of audio frequency amplification. Non-oscillating.

**Tubes:** Five in all, jacks provided for either five or four tube operation.

**Batteries:** Either storage or dry-cells.

**Cables:** Complete set supplied for "A" and "B" batteries.

**Wave lengths:** 300 to 600 meters, with uniform efficiency of reception.

**Aerial:** 75 to 125 feet, single wire.

**Panel:** Aluminum, with attractive crystal black finish. A perfect body capacity shield.

**Dials:** Sunken design. Shaped to fit the hand and permit a natural position in tuning.

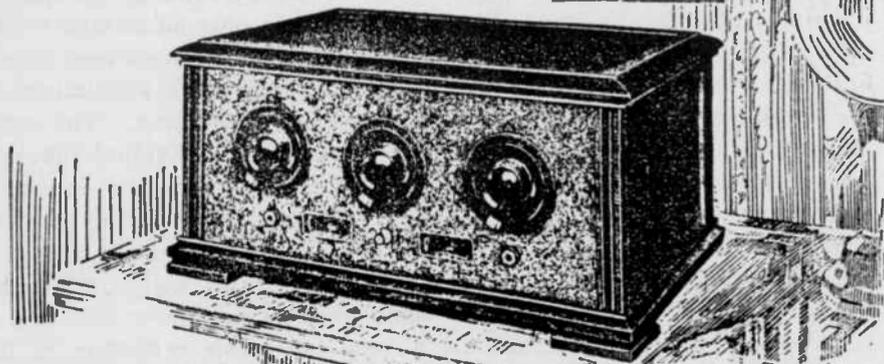
**Condensers:** Single bearing, low leakage losses.

**Speakers:** Suspended on cushion springs which absorb vibrations.

**Cabinet:** Mahogany, with distinctive lines and high finish. Ample space provided for "B" batteries.



February, 1925



# Review

## WHAT ARE THEIR MEMORABLE SONGS?

Compiled by  
Neil and Esther Howard Graham

Have you sometimes wanted to look up a bandleader, singer, or other entertainer to find out what his theme song was or what song he was most associated with? Or maybe you wanted to know what instruments he played or what particular talents he was noted for. Sometimes you might even be curious about when and where he was born or when and where he died. Finally, here is one book with alphabetical listings that will answer these and many other questions for over fifteen hundred bandleaders, singers, composers, lyricists, and other show-biz personalities, starting with Irving Aaronson and ending with Bob Zurke. Not only are the big "name" bands included, but also lesser-known and territorial bands, smaller instrumental and singing groups, vocalists, composers, lyricists, entertainers, and personalities that deserve to be remembered for their signature songs. Certainly your Bob Hopes, Jack Bennys, and others deserve to be included, as do the Harlem Globetrotters, for their "Sweet Georgia Brown," and even the Indianapolis 500, for its opening with "Back Home Again in Indiana." *What Are Their Memorable Songs?* is indeed a comprehensive guide to the music of years past. Compiled by Neil and Esther Howard Graham, it is a treasure that will be enjoyed by any who thrilled to the sounds of the big bands and have their own store of musical memories.

Vantage Press, Inc.  
516 West 34th Street, New York, N.Y. 10001

- LEONARD, JACK vo  
Marie (w/Tommy Dorsey)
- LESLIE, RAY (Ray Leslie Snead) d dancer B  
B 8-18-07, Bath County, VA  
Nola (his own favorite)
- LEVANT, OSCAR p cm lyr  
B 12-27-06, Pittsburgh, PA  
D 8-14-72, Beverly Hills, CA  
Lady, Play Your Mandolin (cm, 1930)
- LEVINE, HENRY (n/n "Hot Lips") t B  
B 11-26-07, London  
Basin Street Blues (as leader of  
combo on show "Chamber Music  
Society of Lower Basin Street")
- LEWINTER, DAVID cm B  
B 10-28-08, New York, NY  
Daydreams (cm, 1934)
- LEWIS, GEORGE cl B  
B 7-13-1900, New Orleans, LA  
D 12-31-68, New Orleans, LA  
Burgundy Street Blues  
Just a Closer Walk with Thee (w/Bunk  
Johnson)
- LEWIS, JERRY (Joseph Levitch) vo com  
B 3-16-26, Newark, NJ  
Rock-a-bye Your Baby with a Dixie  
Melody

### About the Author

Neil Graham is a retired civil servant who has been interested in music all his life. As a member of the Panhandle Fiddlers, he broadcast for a few years over radio station WHKC in Ohio. He has also entertained at many community functions, including the Biennial Chicken's Ball and Kiwanis programs in San Carlos, California. Esther Howard Graham is a legal secretary who has also actively pursued music as a hobby, playing the guitar and singing. Neil and Esther met in 1972, and their mutual love of music soon led to their marriage. They furnish much out-of-print music to people who can't find it elsewhere, and their music library consists of thousands of records and tapes, sheet music, legal fakebooks, and an excellent collection of reference books. The Grahams currently live in Arizona.

## service & repair

CH. XXII TESTING INDIVIDUAL RADIO COMPONENTS 569

ALFRED A. GHIRARDI, B.S., E.E.

FIG. 22-4.—A calibrated "resistor indicator" which may be used for determining resistance values, and for miscellaneous other uses.



Courtesy International Resistance Co.

22-18. Resistor Indicator.—A rather novel little device which finds many uses in the daily work of the radio service man is illustrated in Fig. 22-4. Essentially, it consists of a wire-wound resistor. A slider moving over the resistance element enables any part of the total resistance to be selected. In other words, it is a large potentiometer—and it is calibrated directly in ohms by the manufacturer. The "ohms" scale may be seen in the illustration, along the top of the enclosing case. Two ranges of resistance are available, 100 to 10,000 ohms and 10,000 to 100,000 ohms. The resistance element is protected from accidental overloads and consequent burn-outs by a small fuse which may be seen mounted at the right end.

Although this "resistor indicator" has many useful applications where a calibrated adjustable resistor is necessary, there is one that is particularly important. The service man is called upon to service many receivers in which the resistors are not color coded at all, or are color coded according to some individual manufacturer's system instead of to the standard-RMA code

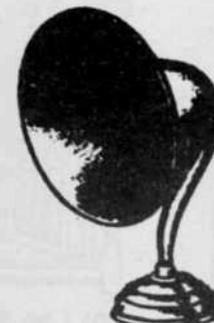
Furthermore, a circuit diagram of such a receiver, with all resistor values marked on it, may not be available. If a resistor in such a receiver becomes open, or shorted, etc., the service man has no simple way of finding out what size replacement resistor should be substituted for the faulty one, for he is unable to measure its correct resistance. The correct value of replacement resistor can be determined quickly, however, by disconnecting the faulty resistor from the circuit and inserting this "resistor indicator" in its place. The receiver is then turned on, and the value of the resistor indicator is varied until the voltage drop across the indicator is the same as that which should exist across a good resistor of proper value normally connected in the circuit. From the position of the arm, the value of resistance that should be used may be read directly. If a replacement resistor of the correct value is not at hand, this resistor indicator may even be used to permit temporary use of the receiver until the proper resistor can be obtained.

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# REVIEW

## ART PLASTIC

By Andrea DiNoto

Taken for granted for years and long considered the very symbol of everything tacky, plastic has undergone a renaissance of sorts over the last decade. Post-war plastic design—tableware, jewelry, furniture—is turning up with amazing regularity at leading antique shops and auctions. In fact, auctions devoted solely to plastic collectibles are not uncommon. These mass produced artifacts of machine age America now enjoy a new vogue among designers and collectors throughout the world and are the subject of a stunning new book published by Abbeville Press.

ART PLASTIC: DESIGNED FOR LIVING presents the best in classic plastic jewelry, fashion accessories, vanity items, housewares, cameras, radios, furniture and, of course, toys. In her in-

formative and accessible text, Andrea DiNoto introduces even the general reader to the complex history of plastics, which dates back more than one hundred years to the invention of celluloid. With the invention of plastic in 1909, the modern area of plastics had begun, but it was not until the 1930's that designers realized plastic's potential outside of industrial zones. Only plastic could be molded to any shape or form in an infinite variety of bold colors. (the word plastic, incidentally, is from the Greek *plastikos*, to mold or form).

The 250 rich illustrations, more than 100 in striking color, represent the most fantastic plastic, including the classic shell chair by Charles Eames, colorful tableware by Russel Wright, streamlined radios of the 1930's, and even the staple of many post war kitchens, Tupperware. Ranging in style from Art Deco to Pop and in function to the purely whimsical, the items pictured in this elegantly designed and lavishly produced volume show the versatility, strength and sheer beauty of plastic.

More interested? Write: Abbeville Press, Inc., 505 Park Avenue, New York, New York 10022.

# Correspondence

Dear Jim,

I see it is time to renew again. As you can see I have moved again to Tampa Bay area. I am about 4 blocks from Bush Gardens. I have collected a few tube sockets, brand new, packed 200 to the box, a total of 2,000 made of bakelite, 4 prong with 4 holes for mounting on a wood base made by EB4. They make good trade stock. Also, a few speakers and some telephones. And some HALLICRAFTERS S-76, S-40, two S-22R, SX-42, NATIONAL HF5 no power supply. These sets make for trade as I do not collect AC sets.....

Julius Pilger  
K2KCB  
2008 E. Seward Street  
Tampa, FL 33604

Jim,

Please renew for another year. Enclosed check for \$10.00

My last want ad got me instant results in buying a speaker I wanted.

K9JLJ

Dear Jim,

I have had a very good year as far as finding equipment is concerned. this spring I obtained a fair condition IP501, SE1420 for only \$25.00. In September I found a rare AK breadboard 4066, an untuned receiver for a very good price and two weeks ago at a local auction I purchased two AK breadboard receivers, an AK R horn and an AK phono unit. Unfortunately, a dealer there knew what they were but I still got the whole lot for a fair price. The whole lot was advertised as an AK table top radio. I expected to see a cathedral radio so the find was a pleasant surprise.

James P. McKinnon  
Bridgewater, New Jersey

Dear Mr. Cranshaw:

First of all, today, I was given an old radio that might have been discarded. While looking for tubes, a man gave me a Silvertone model 4564, table radio, circa, 1936. He said, "It cost me \$50.00." He explained that someone left the radio and something else

# PUETT ELECTRONICS

P.O. BOX 28572 DALLAS TX 75228



E.H. SCOTT THE DEAN OF DX

E.H. SCOTT  
THE DEAN OF DX



BY MARVIN HOBBS

SIMULATED FRONT COVER

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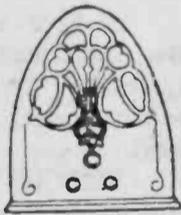
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# EQUIPMENTS mfg. WESTERN ELECTRIC CO. 755,4151,4181(SPEAKER) 13A,14A,15A,17A,22A,26A, (HORN),555,594,597,713C(DRIVER) 285,618,171B/C(A.F.TRANS) 46,86,91,124(AMPLIFIER), others.

## TRIAL ELECTRIC PRODUCTS

304 ROSEBAY YOTSUYA BLDG., 21 ARAKICHO, SHINJUKU-KU, TOKYO 160 JAPAN

in front of his shop door at night and the police called him thinking it was a break-in. In his haste, or something, to come and investigate he lost his wallet, containing \$50.00. And so he gave me the radio.

I have since cleaned it up, inside and out, and will send it to a friend in Erie, Pennsylvania to repair.

My other radios are:

Our family's 1939 Zenith console.; a 1940 (I think) Zenith console; a 1933 Atwater Kent model 246 table radio, newly repaired; a circa, 1928 RCA Radiola model A-33, a set in a metal chest, which then fits in a console cabinet with the usual speaker mounting, recent minor repair; a 1924-5 RCA Radiola model AR-812, a battery operated set, with a 1926 Radiola model 100-A speaker, and I just sent the works and speaker to my friend; a circa, 1950 Magnavox model 245-M radio-phonograph console combination, and just received the works of this back repaired; a Phillips table model AM-FM-SW bought recently for \$3.00 in a thrift store and sent to my friend this week, which looks like an expensive set, and also, a circa 1919 Brunswick Ultona, a phonograph, which with a three way

producer head, plays 78's, Edison's diamond discs and thin vertical-cut records as used on old pathes, it is recently reconditioned.

I will be looking for two tubes for the AR-812. I don't find any numbers on them, but it's a good bet that they are WD-11's. And if you can't find it locally, a no. 55 tube for the Atwater Kent. (I found a no. 47, 56, and 57 tubes for it—the latter number of which my friend said was weak.

For the 1939 Zenith, the triangle shaped, ivory plastic tabs which are labelled voice,

bass, normal and matching ones for station call letters on the opposite side (some of them). For the 1940 Zenith, the pushbutton station selector apparatus are inside the pushbuttons and has a proper ivory plastic off-on volume knob with a Z on it.

I have always loved radio, the instrument and the medium; lamenting the loss of drama and entertainment of radio before 1950.

Will be looking forward to any information.

James Apthorpe  
1190 Westland Road  
Mt. Dora, FL 32757

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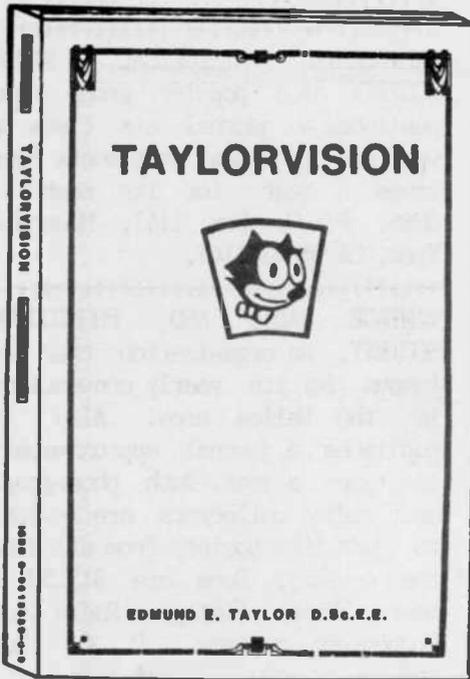
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"TAYLORVISION" This exquisitely designed and illustrated monograph takes a look at one inventor's endeavors to combine technology of different decades to create a hybrid television system utilizing scanning discs and all solid state circuitry. Demonstration



television images from the 1920's can be seen with the apparatus described in this sixty-four page softbound edition. Collectors will find this small volume to be an elegant jewel of a book, embellished with delightful textual ornaments from another era. Published in 1984 and available from the author - \$4.98 postpaid. Dr. E. E. Taylor, 245 Oakland Avenue, Indianapolis, IN 46201.

RIDERS RADIO AND TV SERVICE MANUALS. RCA, HOWARD SAMS - PHILCO - GE - TUBE TESTERS - SIGNAL GENERATOR, VOLT OHMMETERS, TUBES, PARTS - RADIO PHYSICS COURSE GHIRARDI 970 PP \$9.00 - AUDELS NEW ELECTRIC LIBRARY 9 VOLS. - ALL - \$20.00 - RADIO TROUBLESHOOTERS HANDBOOK BY GHIRARDI \$25.00 - MALLORY TECHNICAL MANUAL \$12.50 - PP AND INS. EXTRA. NEW LIST WILL BE OUT FEBRUARY 1985 - LARGE SASE WITH 2 STAMPS AND 75 CENTS - KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

INTERESTED IN A WHOLE ANTIQUE RADIO COLLECTION INCLUDING ABOUT A THOUSAND TUBES- LET'S WORK TOGETHER. CHESTER E. FRANZ, WONFA, #1 CHAROLIS DRIVE, BAY, MD 65041.

FOR SALE: CROSLY REGENERATIVE RECEIVER, MODEL 50, SERIAL NO. 66082, GOOD CONDITION, ORIGINAL FACTORY TAGS, INTACT- BEST OFFER. THOR J. BERG, 4601 BANFF DRIVE, N. E., ALBUQUERQUE, M 87111.

TUBES, SCHEMATICS, LITERATURE FOR EARLY RADIOS. SASE FOR FREE PRICE LIST. SAM FAUST, CHANGEWATER, NJ 07831.

HALLICRAFTER'S - S-120 - ALSO S-119 Small THREE BAND SKY BUDDY, RCA MOTEL RADIOS, METAL CABINET SIX TUBE BC AND SW \$60.00 EACH - RCA SEVEN-BAND PORTABLE 7BX10 \$110.00 (COST \$250 NEW).- EVERYTHING WORKS -6E5, 6K7, 1L6, NEW TUBES: NEW

THORDARSON FLYBACK'S (1 THRU 176) YOKES Y-105, Y88, Y130-Y94 MOTOROLA'S, SHARP'S 110c \$15 EACH. POSTPAID - DONALD ALDRED, 39 EAST EIGHTH STREET, JACKSONVILLE, FL 32206.

"RADIOLA 24 (no tube cover) \$150.00, RCA 103 speaker \$55.00, Midwest 17 tubes chassis, rough \$35.00, Majestic 50 cathedral \$140.00, Fada 6 tubes, bad pot metal \$30.00, Michigan 1 tuber (rough) \$110.00, Royal wood horn in cabinet (wrong driver) \$20.00, Magnavox 1925 floor model, mint \$90.00; Rosenthal, 507 S. Maryland Avenue, Wilmington, DE 19804."

MAJESTIC MODEL #90, chassis only with speaker, cheap, SASE for information. - M. J. Doback, 592 E. Southlawn. Birmingham, MI 48009 (313) 646-6944.

COIN OPERATED ARMCHAIR RADIO, battery Globe radio, Northhome (battery) Russell F. Schoen, R#1 Box 224, Clintonville, WI 54929.

PHILCO CHASSIS 51, 51A, 52 OR 551. ALSO NEED WORKING RAINBOW OIA WITH BRASS BASE AND TIP. HAVE FOR TRADE 1917 QST'S AND PRE 1923 TUBES. - MICHAEL PAYNE, 601 E. COOMBS #10, ALVIN, TX 77511. (713) 585-4292.

FOR SALE: 2 SETS OF RIDER MANUALS; 1 TO 22 AND 1 TO 5 ABRIDGED PLUS 2 TO 19. - FRANK BREWSTER, 3RD STREET, BAXTER SPRINGS, KS 66713.

FORTY YEAR COLLECTION TUBES. SEND LIST OF TYPES REQUIRED AND PRICING QUOTES. LEVY, 4141 KRUPP DRIVE, EL PASO, TX 79902.

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CASH, PARTS, RECORDS AND TUBES. TO ME IT'S ALL OVER. - CALL DAYS (503) 474-5966.

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FOR SALE: 3 ISSUES OF QST- JUNE AND JULY 1917 AND JUNE 1919, GOOD CONDITION. BEST OFFER OR TRADE FOR SW-3. BOB HERBIG, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

FOR SALE: UNUSED 864/ VT-24 TUBES. \$8.00 EACH OR 10 FOR \$75.00, JOSEPH D'AIRO, 201 N. RICHMOND AVENUE, MASSAPEQUA, NY 11758.

ATWATER KENT model 38 receiver with type E horn speaker, working order, \$150.00 plus postage, insurance. Madison, WI (608) 257-7267.

FOR SALE: TUBES, PARTS, SCHEMATICS, custom power supplies. SASE for list to: Los Locos, 1201-74 Monument Blvd., Concord, CA 94520.

FOR SALE- ALL UNTESTED, PICK UP ONLY, WILL NOT SHIP. SCOTT LABS. CHICAGO 800-B CHASSIS AND POWER UNIT, NO SPEAKERS \$75.00, E.H SCOTT RBO CZ6 4 BAND BC AND SW REC. HAVE (3) \$75.00 EACH MADE FOR US NAVY. TYPE CMK 46155-A RADIO REC. 15 TO 600 KC \$100.00, HALLICRAFTERS SX88 \$150.00, MARCONI 6 BAND, MADE IN ENGLAND, PRE WWII, NEEDS REPAIRS \$65.00, KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

FOR SALE- CATHEDRAL, BATTERY AND A.C. RADIOS. SEND SASE. J. ALBERT WARREN, BOX 279, WAVERLY, PA 18471.

DX CRYSTAL, ONE TUBE sets, kits, plans, handbooks, coils, supplies. Obsolete tube quotations. Catalog \$1.00; none free. Laboratories, 1477-H, Garden Grove, CA 92642.



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PO BOX 4155  
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ALL ABOUT CRYSTAL SETS. New book by Charles Green shows you how to build crystal set radios. \$7.95

ppd USA. ALLABOUT BOOKS, DEPT H, P. O. BOX 4155, Fremont, CA 94539.

FOR SALE - FOR SALE - SEE MY AD IN WANTED BUYERS (CASH), KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

TRADE- BOOK EVERYMAN'S GUIDE TO RADIO, Vol. 1 for Vol. 2. Serge Krauss, 141 Homan, Elkhart, In 46516.

FORTY YEARS COLLECTION TUBES, SEND LIST TYPES REQUIRED FOR AVAILABILITY AND PRICE QUOTES, LEVY, 4141 KRUPP DRIVE, EL PASO, TX 79902.

AK 5 BREADBOARD WITHOUT TAGS, VERY NICE, \$1500.00 OR BEST OFFER. JIM CLARK, 1006 PENDLETON, LANSING, MI 48917 (517) 323-9595.

40 TRANSMITTING TUBES, new in original cartons. \$75.00 plus U.P.S. S.A.S.E. for listing. JOHN MARTIN, 817 COOK, BILLINGS, MT 59101.

FOR SALE: OLD 78 RPM disc player and recorder. Believe it is modified Wilcox Gay. Requires an amplifier. \$25.00 plus shipping. Hugh Kuhn, 128 6th Avenue East, Cresco, IA 52136.

BOOKS ABOUT RADIOS, RECORDS, PHONOGRAPHS. Current titles: how-to-do-it, price guides, history, reprints, much more. 78 rpm supplies. Long SASE for 6 page list. The Sound Box, Dept. HS, Box 313, Ettrick, WI 54627.

FOR SALE: AK 5 (all original, serial #129) AK 12, GE Longfellow Grandfather Clock Radio, 50 other radios. SASE for list and information. - D. Voydanoff, 1141 Yorkshire, Grosse Pointe, MI 48230.

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FOR SALE TUBES, PARTS, KNOBS, DIAL BELTS, RIDER, HOWARD SAMS, RCA, PHILCO SERVICE MANUALS, VOL. CONTROLS, TUBE SOCKETS, TUBE TESTERS, SIGNAL GENS., PANEL METERS, 100'S OF OTHER ITEMS, NO LIST. WRITE WANTS. SASE FOR REPLY. KRANTZ, 100 OSAGE AVE., SOMERDALE, NJ 08083.

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 (2) RADIOLA 26 \$225, \$100, Radiola 25 w/loop, VG cabinet, needs rewiring \$90, Radiola 20 rough \$35.00, Radiola 24, fair \$100, Radiola 16 good \$85, RC vg \$140, Radiola II G, no lid \$160, Audiola EX needs audio \$50, Homebrew, \_\_\_\_\_ audios, det., w/audion \$130, AK 4 tube breadboard (tuner type) \$385, Bob Avery, 3712 Glorieta NE, Albuquerque, NM 87111.  
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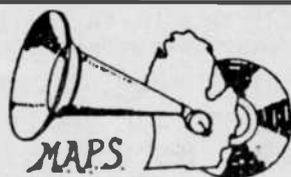
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# SOCIAL EVENTS

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 NORTHWEST VINTAGE RADIO SOCIETY - Annual dues \$12.50. monthly newsletter, THE CALL LETTER and monthly meetings. Write: Ed Charman, Northwest Vintage Radio Society, P. O. box 02379, Portland, OR 97202.  
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 ARIZONA ANTIQUE RADIO CLUB, a lately formed club that publishes RADIO NEWS, a quarterly bulletin with informative articles and ads. Annual dues are: \$10.00 for a year. Write: Lee Sharpe, treasurer, Arizona Antique Radio Club, 2224 W. Desert Cove #205, Phoenix, AZ 85029.  
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**Southeastern Meet  
 of the  
 Antique Wireless Association  
 March 22-23, 1985  
 Stone Mountain, GA.  
 (near Atlanta)**

Flea market, contests, movie on early radio resotration techniques. Prize for Best of Show in contest.

Registration: \$5.00 for AWA members. Non-members collectors will be allowed to join at meet. Contact show host Larry Flegle, 2195 Six Branches Drive., Roswell, GA 30076. (404) 992-1430. Accommodations: Stone Mountain Inn. Meeting at Inn of Antique Car and Music Museum.

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 CALIFORNIA HISTORICAL RADIO SOCIETY is a popular group that publishes a journal six times a year and provides swap meets four times a year for its members. CHRS, P. O. Box 1147, Mountain View, CA 94042-1147.  
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 VINTAGE RADIO AND PHONOGRAPH SOCIETY, an organization that is famous for its yearly conventions in the Dallas area. Also it publishes a journal approximately six times a year. Both phonograph and radio collectors are invited to join this society from all over the country. Dues are \$13.50 a year. Write: Vintage Radio and Phonograph society, P. O. Box 165345, Irving, TX 75016.  
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 INDIANA HISTORICAL RADIO SOCIETY, 245 N. Oakland Avenue, Indianapolis, IN 46201.  
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 THE ANTIQUE RADIO CLUB OF AMERICA, one of the older clubs that conducts large meets of national prominence. For more information contact: Joe Willis, P. O. 14732, Chicago, IL 60614.  
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 WELCOME TO SEND IN AN AD ABOUT YOUR CLUB.  
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## WANTED

ARBORPHONE MODEL 27 COMPLETE IN ANY CONDITION OR CABINET, CHASSIS, PARTS, SCHEMATICS, AND INFORMATION, FOR USE IN RESTORATION PROJECT. WILL ALSO BUY OTHER MODELS OF ARBORPHONE RECEIVERS. Send details and prices asked to: P. A. Kinzie, 713 East Beale Street, Kingman, AZ 86401.

REPRODUCTION MODEL of original Philco 90 model style. Has cathedral cabinet and AM-FM. Contact W. Pregnall, 774 Woodward Road, Charleston, SC 29407.

WANTED - ZENITH RADIO SIGNS. DISPLAYS, ADVERTISING, ETC. PRE 1935. CALL MONDAY THRU FRIDAY. 8 TO 5. (312) 357-4955.

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RCA MODEL 813-K CONSOLE RADIO, Jim Coleman, P. O. Box 2758, Redwood City, CA 94064.

SWIRLED COLORED PLASTICS (CATALIN) WANTED. New collector wants bakelites, woods, table tops from 1930- 1950. Will pay \$\$ or trade used cameras. Harry Poster, Box 1883H, South Hack., NJ 07606. (201) 794-9606.

THE ANTIQUE RADIO CLUB OF AMERICA  
 PRESENTS  
 RADIOFEST '85  
 August 9th-10th, 1985  
 Holiday Inn - Elgin, Illinois  
 for more information contact:  
 Joe Willis.  
 P. O. Box 14732  
 Chicago, IL 60614

**ANTIQUERADIOCLASSIFIED** is the new "National Publication for Buyers and Sellers of Old Radios and Related Items - Published Monthly". Since the first issue in September 1984, A.R.C. has attained rapid growth and acceptance by collectors all over the country. With the largest listing of classified ads of any old radio publication, A.R.C. was started to serve the needs of the collector in the buying and selling of radios and related items, and to serve as a national unified forum for collectors in the hobby.

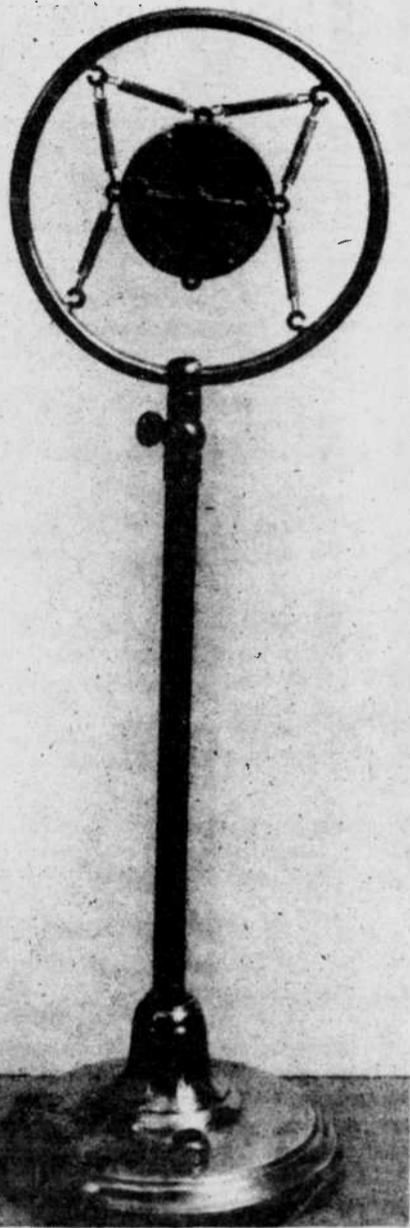
Besides the large listing of classified ads, there are display ads from dealers providing services and supplies, along with interesting articles written by other collectors in the hobby. If you wish to be kept abreast on the latest collecting trends in the old radio hobby, then a subscription to Antique Radio Classified is the answer. Published monthly, 12 issues per year, the cost for a subscription is only \$15.00. For only \$1.25 an issue, you can see what is happening in the radio collecting market, as well as being able to run a free 20 word classified ad per issue. Still not convinced?, then send for a sample copy at \$1.50 ppd.

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ANTIQUERADIOCLASSIFIED  
 VOLUME 1 SEPTEMBER 1984 NUMBER 2  
**PREMIER ISSUE**  
 CLASSIFIED AD DEADLINE FOR OCTOBER  
 ISSUE IS SEPTEMBER 10TH - DON'T DELAY  
 MARCONI 106  
 THE NATIONAL PUBLICATION FOR BUYERS AND SELLERS  
 OF OLD RADIOS AND RELATED ITEMS - PUBLISHED MONTHLY

# WANTED



MICROPHONES of this kind or any nice ones from 1920 to 1940's. Please send photo with prices to 1900-2000 gallery- 8, Rue Bonaparte- 75006 Paris France.

VINTAGE AUDIO TUBES AS 2A3 45's 50's W.E. 104B/D 205B/D 211D/E 242A/C 252A 262A 274A/B 275A 276A 284D 300A/B 301A 310A/328A/348A's OLDER- MESH 347A 349A 350B 351A VT2 VT4B VT25A VT52 D86326 D86327 WELCOMED - SHIGERU MIURA 5-14, 3 CHOME TOKIWADAI, ITABASHI-KU, TOKYO, JAPAN: NEW CONDITION PREFERRED

A. K. BREADBOARD PARTS- VERT.-HORZ. COILS- 3 STAGE DETECTOR-AMPLIFIERS, RHEOSTATS- AF TRANSFORMERS AND CONDENSERS IN CANS. Dewitt L. Bills, 5237 Upton Avenue North, Minneapolis, MN 55430.

WANTED: SUPER ZENITH VIII in good or repairable condition. - R. Burick, 7656 Broadview Road, #328, Parma, OH 44134 (216) 886-5923.

WANTED: FARRAND MAGNETIC cone speaker, Browning Drake receiver, Peerless 9" dynamic speaker. R. McNeill, box 472, Yorkton, Sask., Canada S3N 2W4.

Wanted: WWII ITEMS, 1920's suitcase portables, early DeForest and 1925-6 AC sets. Rosenthal, 507 S. Maryland Avenue, Wilmington, DE 19804.

WANTED: 1. FREED EISEMANN advertisement material. 2. Cabinet for Radiola III. 3. Operating booklet for Radiola III and IIIA. 4. Radiola IIIA in good to mint condition. Thomas S. Estes, 5555 West Gulfbank #911, Houston, TX 77081.

WANTED: KARLSON SPEAKER ENCLOSURE IN RELATIVELY GOOD CODITION. MARK SKINNER, 1420 ANNA ROAD, PEKIN, IL 61554. (309) 353-1882.

WANTED: BRASS OR FANCY decorated paneled radios, fancy cathedrals, horns in excellent or mint condition, 1 tube sets and WD 11 tubes. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

SCOTT COLLECTOR NEEDS SCOTT 12 two dial parts, escutcheon, knobs and cabinet. Wanted to buy Scott Philharmonic. Denis Yanko, 410 N. Summit, Oconomowoc, WI 53066, (414) 965-3641. Collect after 5:00 cst.

WANTED: VERY GOOD R.C.A. MODEL 103 SPEAKER. WILL PAY \$90.00 FOR SPEAKER IF IN MINT CONDITION. LET ME KNOW WHAT YOU HAVE. WOULD LIK TO BUY THE BEST ONE I CAN GET. QUOTE YOUR PRICE AND CONDITION. RON BURIZOS, 915 CRANE, DeKALB, IL 60115.

SCOTT: SCOTT RADIO COLLECTOR wants to purchase Scott Philharmonic, any version. Also, would anyone with a Scott Napier Consoltte, please contact me. I have a question concerning it. Denis Yanko, (414) 964-3641 collect after 5:00 cst., 410 N. Summit, Oconomowoc, WI 53066.

SPHERICAL or TUBULAR AUDION, #5514 transmitting tube. top for Radiola 106 speaker. Early light bulbs. Will buy or trade for tubes. Harbeck, 13408 Westwood Ln., Omaha, NE 68144.

WANTED: 1924 GOLDEN - LEUTZ 9 tube Super Pliodyne. also, any information on Raven Radio 12 tube superhet. Duane Bylund, 5133 West 5400 South SLC, Utah 84118, (801) 967-6987.

WANTED: SOURCE FOR ASTATIC OR RCA CARTRIDGE AND NEEDLE FOR 1950'S RCA PHONO. DAVID HAMMON, 1117 EAST FIRST STREET, LONG BEACH, CA 90802

BURNS PYRALIN SHELL AND RADIOILA UZ-1320 LOUDSPEAKER. DIAL FOR PHILCO 37-61. DALE WILSON, 105 1ST

STREET WEST, JORDAN, MN 55352. (612) 492-6338.

WANTED: 1 TUBE SETS, CRYSTAL SETS, GREBE OR EQUIPMENT. RAY GARNER, ROUTE 1, BOX 320, BIG SANDY, TN 38221.

ELECTRO- MEDICAL AND QUACK DEVICES, BOOKS WANTED. INTERESTED IN FLOOR MODELS AND IN DEVICES WITH MULTIPLE KNOBS RESEMBLING RADIOS BUT WHICH ARE NOT RADIOS. I AM ALREADY SATURATED WITH VIOLET RAY DEVICES, SIMPLE 4D BATTERIES. PLEASE DESCRIBE AND PRICE. OLE LINDAN, 1404 DORSH ROAD, CLEVELAND, OH 44121

WANTED W. E. ELECTRON TUBES. I buy most everything the Japanese buy, plus a lot more they don't bother with. I pay more, pay faster and I'm easy to contact. Call or write with anything of interest. Charles Dripps, 4331 Maxson Road, El Monte, CA 91732. (818) 444-7079

WANTED: ANY AND ALL INFORMATION on the "Radio-Pen" facsimile receiver by John V. L. Hogan, August 1934 Radio News. Anyone who owned and operated? D'Arcy Brownrigg, P. O. Box 292, Chelsea, Quebec, Canada, JOX 1N0.

We take liberty herewith to introduce ourselves as being a long establisher importer of antique mechanical music. ALWAYS WANTED: VINTAGE AND ANTIQUE RADIO, HORN SPEAKER, VINTAGE T.V., CATHEDRAL RADIO, GRAMOPHONES, PHONOGRAPHS, POLY PHONE, JUKE BOX, CRYSTAL SETS, MUSICAL BOXES, TYPEWRITER, SEWING MACHINES, TELEPHONES, WESTERN ELECTRIC AUDIO PRODUCTS, AMPLIFIER, DRIVERS, HORN AND SPEAKER SYSTEMS, ANY SPARE PARTS, OLD CATALOGUES AND POSTER, AND ALL OTHER OLD MECHANICAL ITEMS. TOP CASH PRICES PAID, Whole collection or single items. We will travel any where to collect, if you have them in hand. Please contact us with prices and photograph to: MR. PIPAT W. POOLPOL, 9 Soonthon Kosa Road, Klong toey, Bangkok 10110 Thailand. Tel. 2863947.

RCA AND AC A.K. CATHEDRAL in very good to mint. AC A.K. Kiel parlor table with original finish, with or without chassis; 5 Zenith knobs for farm radio, page 191 F.O.S., Jeff Vance, 1819 West Rovey, Phoenix, AZ 85015.

WILL PAY IN WD11s or cash for: (1) Crosley 59 chassis, working or not, (2) Radiola 26 battery box, (3) Pre-1924 DeForest items, (4) WWI items, (5) 1920s portables, (6) Radio receptor RF transformer for superhet. Rosenthal, 507 S. Maryland Avenue, Wilmington, DE 19804.

WANTED: PLUG-IN COILS, 4-5-6 PRONG TYPES, WITH GOOD WINDINGS, SINGLES OR SETS. BOB, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056

VU METER for Roberts Reel to Reel Tape Recorder Model 192HT or FT Part No. 54-13. Cecil E. Wallace, 1345 Oak Meadows, Dallas, TX 75232.

ATWATER KENT AK5, AK10, AK12, MAGNAVOX R2, R3, MEAPON CRYSTAL SET. WILL PAY HIGH PRICE IF GOOD CONDITION. 102 KOKUBUHIGHTS, 316-13 YAMAGUCHI, TOKOROZAWA-SHI, SAITAMA-KEN JAPAN.

AAA WANTED: I PAY SAME PRICES FOR all tubes listed by Japanese's ad and also look for Western Electric Amps, Mixers, Consoles, Drivers, Tweeters, Horns, Speakers, Parts, Etc., and Old Tannoy Speakers and McIntosh, Marantz Tube Type Amps. Tel. (818) 576-2642. David, POB 832 Monterey Park, CA 91754.

WANTED: VERY GOOD ATWATER KENT model "E" speaker. Quentin Galbraith, 4303 Kingsway, Farmington, NM 87401.

WANTED - WANTED BUYERS (CASH) FOR A 45 YEAR ACCUMULATION AND COLLECTION OF OLD RADIOS, SPEAKERS, TUBES, PARTS, TEST EQUIPMENT, METERS, SERVICE MANUALS AND RADIO PAPER, MAGAZINES, A FEW TRUCK LOADS NO LISTS BUYER TO REMOVE AND TAKE ALONG. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083. (609) 783-0400.

NEEDED: A COMPLETE ORIGINAL MAGNETIC "pickup", in as good an original working condition as is possible, for the electronic restoration of a 1929 R.C.A. Victor model no. RE-45 combination radio/phonograph. David E. Smith, #40 Cortez Drive, Florissant, MO 63031-4121.

BURNS PYRALIN SHELL AND RADIOILA UZ-1320 LOUDSPEAKERS. Plastic dial scale for Philco 37-61. Dale Wilson, 105 1st Street West, Jordan, MN 55352.

WANTED: PILOT AC SUPER WASP WITH COILS, MUST BE IN GOOD CONDITION. CASH OR TRADE ATWATER KENT BREADBOARD COMPONENTS. BOB HERBIG, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

WANTED: WORKING A-B-C BATTERY eliminator and home battery box for Radiola 26. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

WANTED: TUNING CONDENSER for Philco model 60, also tuning dial and knobs. (715) 823-6744. Russell Schoen, R#1, Box 224, Clintonville, WI 54929.

