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THE NEWSPAPER FOR THE HOBBYIST OF VINTAGE EL ECTRONICS AND SOUND

THE HORN SPE

Publisher, Jim Cranshaw

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PHONOGRAPH CENTENNIAL 1877 - 1977

spot at the shadow-box on the Anti-Ad and presto! the relay operates, the antenna is cut off and our friend Mr. Radio Advertiser is talking into empty space, as he should be.

It is not necessary to hold the spotlight focused on the selenium cell throughout the desired period of interruption of radio set because attached to the relay is a time lag device which permits the relay to return to contact only after a definite period of delay. The duration of this period of delay is adjustable by means of the knob and dial on top of the Anti-Ad which is calibrated in seconds. Thus for example, if the radio listener knows that the "Third Strike Cigarette" announcer invariably talks for 20 or 30 or 45 seconds before permitting his excellent or-

chestra to resume their work, she can at the opening of the "Third Strike" program set the dial to say 40 seconds. Then when the announcer begins to tell the health benefits of his cigarette she gives one quick flash of her spotlight onto the Anti-Ad and can resume her reading in peace of mind, knowing that at the end of the 40 seconds the relay device will be released and the program will go on. It is possible that she may miss a few bars of the selection or possibly, if the advertiser is unusually windy, she may catch a few final words of his speech, but the peace of mind of the radio listener will be immeasurably

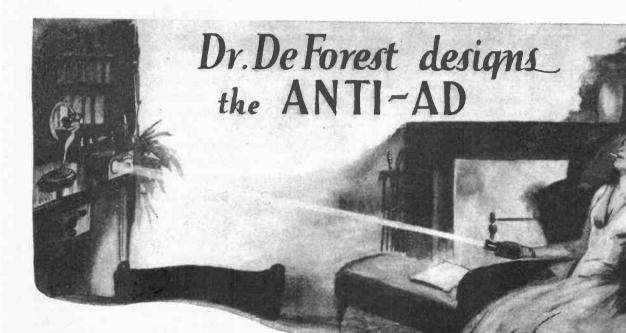
conserved. In using the Anti-Ad one experiences a new joy not unlike that which one would experience in shooting a noisy tom-cat on the top of a back fence on a moonlight night and thus terminating the awful caterwaul. It is infinitely more satisfactory to recline in your easy-chair and kill the announcer with the simple flash of light than it is to get up, walk across the room and throw the radio switch.

The Anti-Ad adds to real radio enjoyment and greatly extends the number of hours throughout the month when the radio set is in operation. It should therefore be received with open arms by the entire radio industry.

RUBBER GASKET TUBE AIR INLET TUBE VALVE

obtaining the time lag operation by means of various length pieces of tubing

RADIO NEWS FOR SEPTEMBER, 1930



Cast a beam of light on this device and presto! the announcer who over your radio has been setting forth at length upon the merits of this and that can be squelched effectively. A selenium cell is caused to operate a glow tube which in turn actuates a time lag contact breaker in the antenna circuit. Thus nauseating advertising blurbs are painlessly deleted from your enjoyment of otherwise fine programs

#### By Dr. Lee DeForest

THE tendency of the present radio broadcast programs to degenerate more and more into crass commercialism and to devote a steadily increasing proportion of the

time to exploiting the merits of every conceivable commodity from tooth-paste and cigarettes to household furniture and diamond rings is steadily diminishing the number of radio users or the hours for which the radio sets are turned on. One tires of continually getting up from his easy-chair every little while and going over to the dial, shutting off the set, or tuning it to another station as soon as the music of a program ceases and the blatant advertiser begins to announce his wares. So many of the best musical programs are nowadays more and more interrupted by these utterly uninteresting selling blurbs

that although the radio listener realizes that in a few minutes, if he can endure the nuisance, the enjoyable part of the program will be resumed, he tires of continually running from his seat across the room to the radio set, and finally in disgust turns off the set altogether.

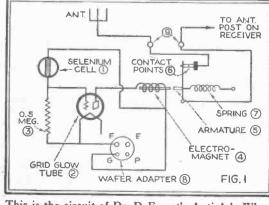
The remote control sets which are now coming into the market are enjoying ever increasing popularity, for which the advertising nuisance is largely responsbile, offer one solution to the difficulty. But the nuisance of having a cable stretched across the room from the set to the easy-chair and the reading lamp, over which the missus and the children invariably trip, is a distinct disadvantage.

What the long-suffering radio user needs is a simple wireless device whereby he can instantly assassinate the advertising announcer and allow the set to resume its musical outpourings when the story of the tooth-paste or furniture salesman is terminated.

The "Anti-Ad" device perfectly solves this problem. It consists of a small metal box approximately 6" square and 4" high which can be placed on top of the radio receiver or anywhere near it and is connected to the latter by a short flexible conductor cable. The "Anti-Ad" contains a selenium cell and a "grid glow" relay tube and simple relay. The selenium cell is set in the small end of a funnel-shaped shadow box so that it is not affected by daylight or the ordinary diffused lamp-light in a room. The current for energizing the selenium cell, the "gridglow" tube and the relay is all supplied from the radio set through the two-conductor cord which is connected to a two-

contact disc which is fitted over the plugs of the detector tube, and the tube is then plugged back into its socket. The antenna is taken direct to a binding-post on the back of the Anti-Ad and a lead from the second binding post on the same leads to the antenna binding post on the radio set. The relay acts to break the contact in the aerial, thus cutting off all incoming energy from the radio set.

All that the discriminating and ad-exhausted radio listener needs to have at hand in order to operate the Anti-Ad is a small flashlight, which can be had in very ornamental form, located within easy reach on the table or chair where he or she is seated. When the musical program ends and the advertising agony begins, she merely picks up this flashlight, presses the button, **aims this** 



This is the circuit of Dr. DeForest's Anti-Ad. When the beam of light strikes the selenium cell (1); its resistance is lowered causing a voltage drop across the grid leak (3); and current to flow across the grid glow tube (2); operating the magnet (4); and breaking the antenna contacts (6).

#### The HORN SPEAKER ..... 9820 Silver Meadow Drive, Dallas, Texas 75217

# **ETTERS**

Dear Jim:

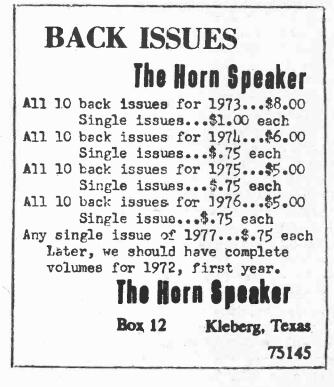
2

Trading, selling, and buying even all correspondence makes a lot of dissatisfied people, not only in our hobby but in other enterprises. This involves the time lag in sending and receiving services. After trying to improve all problems that exist in providing services, especially in our hobby where one of the most important things is relax and be patient ... anything that relates to the antique field is no place for an impatient person. Sometimes as impatient as we can be, we are not to blame..let me illustrate: On my wall hangs an 1861 PONY EXPRESS Poster, do you know in 1861 it took 7 days for them to deliver a letter from New York to San Franscisco? Today is the same; it takes our U.S. Postal System 7 days to deliver by First Class - This is the major problem in our hobby, not only for those like myself that provide services, but the collectors who do the same thing on an individual basis. Many collectors have the right to be mad, they blame the Party or sender. If your magazine, order or hobby publications doesn't arrive on time you blame again the Publisher, when 90% of the time it is NOW the Postal system you can get after. Collectors who order books and send no

extra postage are not aware it takes 3 to 4 weeks by book rate to be delivered by the Post Office ... after one week they write and wonder where their order is? ... some will write three different times even after you notify them...if First Class postage is sent ... many do the same thing ... not realizing it takes 10 days to process and deliver to the post office. Due to the volume of mail we receive the problem is multiplied many times by the number of correspondence from different individuals...soon many are discouraged, think they are being ripped off, and the negative attitude starts rubbing off on all ... Who suffers? All of us who provide these services and NCT the post office.

I have seen all types of dealers and collectors in our hobby, generally most are first class people and very honest, therefore next time be patient and we will pass the mail order hints on to you...it will really help both parties: First if you want the fastest service on large valuable packages ... SEE IF THEY USE UPS IN YOUR AREA, most of us who provide these Services are individual run and use the U. S. MAILS. If so, on BOOR FATE ADD enough Special Handling. It goes the same as FIRST CLASS. We have tested this and had it verified by the Post Office ... the Employees are instructed NOT TO TELL THE CUSTOMER this ... many believe

this means from the counter to the Bag behind the clerk. When mailing a package...it is the duty of the Postal Clerk to weigh it and tell you the BEST AND CHEAPEST WAY TO SHIP ... the average does NOT? like any other government services...there are many many benefits customers are not aware of ASK1 Shipping to a foreign Country there are cheaper, faster ways than they specifie, if your lucky enough to live in a large city where there are numerous Fost Offices, check eround



60 30 46



For those who want to learn... IB002 1925 FREED-EISEMANN RADIO INSTRUCTION BOOK: by Joseph D. R. Freed President and Chief Engineer, Complete Installation and Operations data for all models made in 1925.. Antennas, reception -all types-remedies, batteries, tubes, New and Old, Loud Speakers, list of Broadcesting station-world-wide building these radios, memorandums PLUS Rare history of this company photos, illustrations varies..rare...32 pages.....ONLY.......\$4,95 1925 FREED-EISEMANN MODEL NR7 Neutrodyne Instruction Book, photos, we have added the schematics to this...plus you get a F-E-Radio-Log...this material will display well with radio..6p..\$2.95, With IB002 Both. \$5.95 1925 ELECTRIC SUPPLY AND EQUIPMENT COMPANY CATALOG NO. 14: This is Rarest and best illustrated RADIO catalog we have ever seen...Radio was New the ES & EC were distributors (6 major locations Eastern) to dealers, this is the first catalog book published, therefore we will go into detail its contents, note each page will be suitable for framing if you want to pull it apart, here it is: Musicmaster-Ware models: 50,60,100,140,175,215,250,300,400, 460-(each page for each model) Speakers: V, VIII, XI, XII, XIII, 14" & 21" Horn Speakers, Weston Parts; Kolster Models: 6-A,6-B,8-B,8-C, BRANDES Speakers HORN types-Table Talker, "H", H-type in cabinet, Cone, Superior Headsets, Navy-types; Eagle models; Neutrodyne D, F, Cl, C2, C3,
Mobawik Models: VA, Masterdine: M-50, Tower Products: Headsets-S-T- Horn Spks: 8 1/2", 13", 14", Meistersinger, Midget Horn,
Gold Star Radio Sets: 51, Crystal, Clll-1 tubes, Cll2 2 - tuber, Cll3-3-tuber, <u>ERLA Models</u>. De Luxe, Standard, all major parts Loop Antennas, <u>RCA TUBES</u>: WDII plus II others, <u>Philco</u>: Parts,

Batteries, chargers, Bakkite; Chargers, There are many other major manufacturers and their products listed: From clips to test equipment; Jewell, Universal, Na-ald, Allen-Bradley, Mar-Co, H&H, Dubilier, Keystone, Premie Ensemble Kit Radios, Karas, Py/RADIOlin,(Dupont, Raco, Bassett, Hafner, Effarsee and Eveready...75 8 1/2 x 11 pages..very educational, ONIX \$9.95. 1928 CROSLEY SHOWBOX MODEL 706 Instruction Booklet ... 4page ... \$1.95. IL924 RADIOLA INSTRUCTION BROCHURE: Models: Radiola III, III Amp, III-A & Super-Hetrodyne (second Harmonic) same as VIII only was the first semi-portable from original fold-out with all wiring and tube hook-up. Supplement 6p. . \$1.95. <u>1921 Q-R-S Redtop-Radio-Tube</u> Sales Brochure w/ all Technical Specs...\$0.95. RCA COLOR LABEL REPRINTS: These are reprinted in color from the original labels: Model 100-A, 103 Loudspeaker base, and Radiola 64 Super-Heterodyne Labels.. Now you can cut out these labels and glue to the bases of their respective speaker, the 64 to cabinet (bonus) can"t tell from original all 3 on same artwork....\$2.00. MC02 <u>MAGNAVOX CALL LETTER COLOR SHEETS</u> 2 sheets-brown-yellow of 1776 radio station call letters from CBA-WEAS-WEU-toYNXW reprinted from original sheets, cut out the desired station and add them above the early-push-button radios, each is 1/4" x1/2" will fit most any radio..a must for complete restoration..\$2.00. DIAL CORD STRING AND BELT GUIDE FOR any 1938-1947 Radio: \$1 +.13¢ Stamp NOTE: Need a copy of the new 1977 Radio Antiquers Directory and Collector's GUIDE SERVICES..always changing..everything from A to Z \$5.00 COLOR \$9.95. IMPORTANT: UNIESS OTHERWISE SPECIFIED ALL BOOKS SHIPPED BOOK For First Class ADD \$3 per book, Special Handling to 21bs .50¢, mome weigh

over; Insurance extra 40¢, 80¢ to \$100, Calif. Residents 6% Tax, if in doubt leave your check Blank, We Fill-IN and/or REFUND Excess, PLEASE any INQUIRY, YOU send Postage. <u>CANADIANS</u>: Same as USA, NO Insurance on Air, <u>Payable in US FUNDS</u>, <u>NO STAMPS</u>, ADD \$2.50 for your P. Check exchange rate, <u>SAME FOR OTHER COUNTRIES</u>: US Postal Service now requires a week for F/C, BK RATE 3-4 weeks, WE require 10 days to Process and Deliver. ORDERS OVER \$30 FREE Bonus, Money-back-Guarantee on all items-15 days, ORDER ALL: Historical Radio Services, Box 15370 Dept.HSI Long Beach, Ca. 90815, USA

for a better deal...like buying a car ... even though the RATES are the same ... the CLERKS ARE DIFFERENT.

Always add Insurance. It is best NOT to buy the 0-\$15 plan for 40¢...because although your package is insured there is no signature to be signed by the receiver and the package is harder to track down in the system ... if you have an item worth \$3..put insurance of at least 60¢, \$15-50...You get a signed receipt on both ends of the transaction and it is easy to trace through the system.

Many of you perhaps know these helpful hints, if you do fine, but before you get impatient, mad at us collectors/dealers who provide these services, or stop ordering or subscribing to our hobby Publications, write to your congressman about improving the Slow Time or Services the P. O. is forcing on us... this way we all will have a better relationship. We never covered many problems that happen and hoped we have not bored you with a lot of communications not directly involved with Antique Radio. We both want to save time and money and keep our hobby booming.

If these postal rates are confusing and you are sending a personal check ... Leave it Blank, the receiving party can fill in and or refund excess... if still in doubt above the dollar sign .. "Write not over XXXX Dollars. Last but not least...when corresponding with anybody seeking information on an old Radio you will get faster service by sending a IARGE SELF-ADDRESSED-STAMPED-EN-VELOPE No. 10 Eusiness size ... most large lists or answer requires this type, Don't send a very small SASE like an invitation notice, they easily get lost anyway.

> 73s Brent Dingman Box 1537, Dept. HS-1 Long Beach CA 90815 U.S.A.

#### Gentlemen:

I would appreciate your advising me of the address of the New Jersey Historical Radio Society and the name of one or more of its officers. Thanking you for your attention to the above, I am Very truly yours, AMAZON EXPLORERS Richard G. Brill Route 9 Parlin N.J. 08859 EDITOR ... Does anyone know about this Society?

# Club News

Four new members were added to the SPERDVAC Board of Directors during the March 12 election. The new directors are Pat McGee, Bobb Lynes, Joe Crawford and Carl Schoffstall. Jim Coontz, Tom Elkins and Steve Jelf were re-elected.

Only about one third of the membership voted. Fourty-eight ballots 41222008555

were mailed to the club's post office box and nineteen were hand delivered. One ballot was declared void because eight candidates had been indicated.

The ballots were counted by Rob Glass and Dan Haefele. Dick Palmer and Raidy tabulated the results while Sue Crawford oversaw the entire process.

In accordance with the rules set by the election committee, the ballots will be kept for six months, then destroyed. They are in the posession of Dan Haefele and are available for inspection by any member upon request.

Following the March membership meeting, the new board met to elect a president for the 1977-78 term. Joe Crawford was chosen to replace Jim Coontz in the secret ballot election.

An address for SPERDVAC is: 3146 E. Orangethorpe Ave. #B

# Anaheim, California 92806.

# FIND OF THE MONTH

I was on a service call in the Northwestern part of the state recently and stopped in a little "Junque" shop. The owner had a couple of big Zenith consoles he wanted 65 dollars for, so I started to leave, when I saw a 1928 Philco AC console (floor model). He told me it was only twenty bucks because it didn't work. I asked him if he had any tubes at all - and he said he had a "box full" he'd throw in if I bought the Philco. In the dark of the shed I couldn't see what was in the large box, but there was an OLA on top so I bought the whole works for \$20. When I got the stuff home I found there were several hundred

# ES HERALD RADIO NECDAV C---Columbia: N---National: M---Mutual:

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		KGKO, 570	KSKY, 660
Ma Perkins (N) Pepper Young (N) Happiness Right (N)		Best Sellers Best Sellers Ladles Be Seated Time Views News	News: Can't Lose Stars From Sky Song Leaders Music Shelf Naws: In the Greeve
Stella Dallas (N) Lorenzo Jones (N) Widder Brown (N)	Hymn Beek Rhythm Romance Jerry Wright Carr	WANCE AWEY	Men of Khythm
TAGE I PETTELS (N)	Who's Who in Eaclo.	Hop Harrigan (A)	Varsity Drag
Young Dr. Malone News. Evans Ail-Star Parado News Report	Superman Mystery House Tom Mix (M)	Dick Tracy Jack Armstrong Charlie Chan	News: Washington Time Was Man With Band Musical Cocktails
Supper Club News of World (N) News Roundup Headliner Time	Meledy Miroad	E. Gram Swing (A) Westerners Theater Party	News: Music Music Bar Air Go-Air Show Cresby Records
Glany Simms (N)	Frank Singiser (M) New It Can Re Told Adventures of Falcon. Adventures of Falcon,		News: America Mchs. Man Bohind Music Sky Serenade Show Tune Time
Navy Hour (N)	Gabriel Meátler Real Stories (MI) American Forum (MI) American Forum (MI)	Guy Lombardo Guy Lombardo Hespital Bend Election Pop Music	Five-Star Final
Man Called "X" Man Called "X" Sigmund Romberg (N)	Waltz Time Wings Over Ernsley Jim Alderman, News Baseball Scores	Let's Discuss It County Pair (A)	· · · · · · · · · · · · · · · · · · ·
News Report Music For You Everything for the Boys Everything for the Boys	Corwin Biddall, News Bobby Mesker Orch Charles Arnew Orch Art Kassel's Orch	News: Larry DuPont Milt Herth Trie Most the Mnestres Music: News	
News: Baxter Quartet	Benny Strong Orch	Oddities: Orch. Gay Claridge Orch. Euss Morgan: News Orch.: News	
Musical Reveille	* · 1		We
Texas Farm and Home What Happened Farm Editor Checkerboard Funfest	Bive Ridge Ballads Markets: Ballads Music for Remembrance News; Music	News: Richard Bill Richard Bill's Texans. Bright Spot Party	News: Tlo-Toc Tunes Tlo-Toc Tunes Rev. Hawkins Rev. Hawkins
Morning News Early Birds Early Birds Today's News	Wake Up and Sing Morning Parado News Reports Money Market	Rusical Petpeurri News Reports Fruit Express	Sky Patrol Sky Patrol Sky Patrol Sky Patrol: Headlines
Date at 8- Early Birds Lean Back and Listen Melody Souvenirs	News: Camp Meeting Camp Meeting Merning in Dallas Know Everything	Breakfast Club (A) Breakfast Club (A) Breakfast Club (A) Breakfast Club (A)	News: Saddle Songs Songs of the Saddle Gespel Lighthouse Gaspel Lighthouse
Road of Life	News: Memories Uncle Lee News: Theater Review		News: Musical Briefs Another Star Meledy Time Let's Walts
Fred Waring Fred Waring (N) Barry Cameron (N)	Bill Boyd Bill Boyd Take It Easy	Tom Brenneman (A) Tom Brenneman (A) News. Martyn	News; South of Border Breadway Bands Easy Rhythm
Life Beautiful News; Religion: Notes Hollywood Preview	News (M) Morton Downey (M) News: Varieties Noonday Varieties	Glamour Manor Glamour Manor Homespinners Ted Graves	News: Overtures Home Folk Party Home Folk Party Farmer Looks Ahead
Noonday News Smile Program Norton McGiffin, News Red Hawka	News; Harris. Harassed By Harris. Lopes Luncheon Tuneful Tanias: Nove	News Beports Chuck Wagon Gang Caffee Grinders	News; Skywaves Skywaves Skywaves Skywaves; Readlines
Juniper Junction	Cedric Foster, News	William Nichols (A)	News: Intervews Musical Stars Rev. Peak Rev. Peak
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TUESDAY, AUGUST 14, 1945

tubes, OlA's, 99's, 26's, 27's, 19'ş, 71A's, etc., plus a couple brass base tubes and several Arcturus blues! All tubes but a half-dozen tested good!

The Philco operates beautifully after replacing the output amp.

Keep up the fine work on Horn Speaker, and I'll be looking forward to the next issue.

Best regards. Steve Danielson 5633 Emerson Ave. S Minneapolis MN 55419

Has anyone ever heard of a "McMillon Electric"? I found one! It is a radio in a drawer with 5 Kellogg 401 tubes, a 171 output and 80 (213) power tube, copper plated chasis, clear enclosed tuning capacitors (3). I finally got it to work ... very unusual. I collect K llogg, McCullough hOl, and Marathon A: 608 tube sets. I would be happy to hear from anyone regarding schematics, l perature, radios, etc.

Regards, Mel Rosenthal 507 S. Maryland Ave. Wilmington, Delaware 19804 Phone: 999 0633

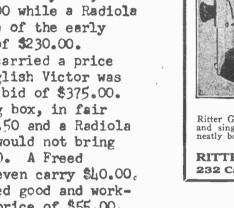


SOUTHWEST VINTAGE RADIO AND PHONO-GRAPH SOCIETY

In spite of a drenching rain the SVRPS auction was a success. Especially, it was an exposition of strange pricing. A Crosley 51, a cute bookshelf battery set of the early 20s, was sold for only \$37.00 while a Radiola 48, a beautiful console of the early 30s, captured a price of \$230.00.

A Royal phonograph carried a price of \$280.00 while an English Victor was sold on the block at a bid of \$375.00. An Atwater Kent 20, big box, in fair condition sold for \$37.50 and a Radiola III in good condition would not bring a minimum bid of \$70.00. A Freed Eisemann NR-9 did not even carry \$40.00. And a: AK 33 that looked good and working could not fetch a price of \$55.00. But an Atwater Kent 20 with an AK horn speaker carried a ringing price of \$120.00.

Horn speakers and AC radio sets were the stars of the auction.



Tested and approved by the Popular Radio LABORATORY; also guaranteed to receive concerts 25 miles under normal conditions. The Ritter Grand

The Ritter Grand Crystal Set is 6 inches in height, with neat mahog-any polished base and top, and has a tuning capacity of 150 to 600 meters. "SPECIAL OFFER"

1923 ad

\$2.50

This is the Ritter Grand Crystal Set

in mahogany fin-

ished wood. It has

a variable tuning

capacity of 150 to

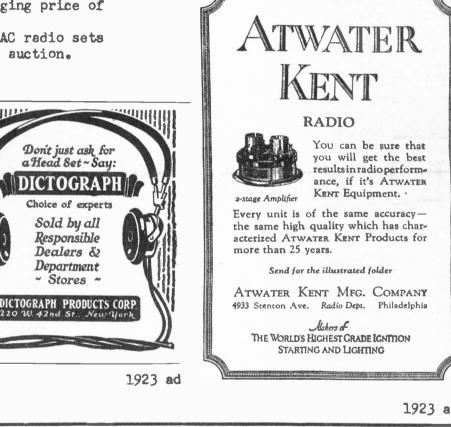
600 meters.

Ritter Grand Crystal Set with full aerial equipment and single guaranteed phone with head band. All neatly boxed. Price, \$5.00.

**Crystal Receiving Set** 

We also invite dealers' inquiries, RITTER RADIO CORPORATION 232 Canal Street **New York City** 

1923 ad

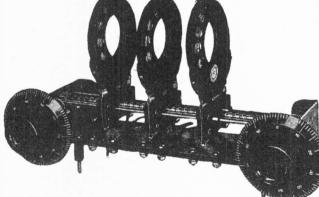




This auction held by the Southwest Vintage Radio and Phonograph Society gave collectors a good measure of fun and sets which they carried home.

1923 ad



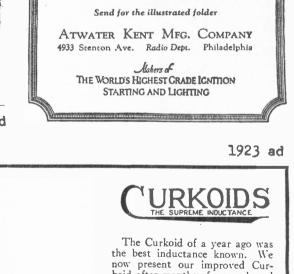


sistance "does not rise with the increase of frequency as rapidly as with other types of inductance" (unso-licited comment). All these make our resonance curve very acute and of greater height. Our new model Dual and Triple No. 3 Couplers are the only accurate scientific method of coupling inter-

changeable inductances. They produce perfect threading of the magnetic flux fields. They have micro-meter movement of 1/400 inch to one graduation on the dial. Essentially our products are improvements that make radio worth while.

Our booklet giving tried and approved hook-ups, general authentic information, radio data, etc., Price 10c.

**RIEGER RESEARCH CORPORATION** 



koid after months of research and test. It is wound in the same form-a Curtate Epitrochoid-but has proportions which result in 25% increased effectiveness.

Curkoids are not affected by any "exterior influence" or "body ca-pacity" whatever. They have very low distributed capacity, high inductance, extremely low high frequency resistance-and this re-

**NEW YORK CITY** 

## Movie-Radio Guide VISITS:

# Bob Hawk's "Take It or Leave It"





ABOVE: Freddy Martin, whose band was playing at the Ambassador Hotel in Los Angeles when Bob staged his broadcast there, picks first number in drawing to select lucky contestants

LEFT: With two thousand kibitzer-guests on hand in the Fiesta Room to advise her, laughing contestant decides whether she'll "take it or leave it." If she's like ninety percent of contestants, she'll take it. Note money on the table—hers if she's lucky

AVE IT"-BOBHAWK

who will go on the air. Producer Bruce Dodge holds the bowl

TYPICAL American fond ness for taking a chance is exploited to the full by short, hale-and-hearty Bob Hawk on his Sunday (CBS) quiz, "Take It or Leave It." The Hawk show dares con-testants to double their winnings with each new question answered correctly, gives them alternative of risking entire winnings on the next question or of dropping out, satisfied with what they have. Maximum prize, \$64; minimum, \$1. While New Yorkers have enjoyed going to "Take It or Leave It" broadcasts for a year, recently other cities got a crack at prize money when Bob went on tour. MOVIE-RADIO GUIDE'S photographer caught the show in Los Angeles, where demand for tickets necessitated a repeat performance in the Ambassador Hotel's Fiesta Room before an audience of two thousand. "Take It or Leave It" is back in New York now, but wherever it's staged the striking feature is Mr. Hawk's amazing ability to make contestants happy, win or lose. He gags ad - lib, joshes the audience, consoles losers, congratulates winners with the sure touch of the showman listeners discovered some years ago in Chicago when Bob invited them to his locally broadcast recorded-music program. The same showmanship put him on MBS with his first quiz, "Name Three," and now on CBS with his current success-presented here-"Take It or Leave It."

Next Week:

"Battle of the Sexes"



JUST BEFORE AIRTIME a hush falls over audience as Bob cautions against too audible enthusiasm, which may spoil show for listeners. Ken Niles (right), pinch-hitting on West Coast for regular "Take It or Leave It" announcer David Ross, and producer Dodge stand by. On the air, Bob explains game

UNUSUAL BREAK for contestants on this show is the chance to choose subject of their questions from those listed on blackboard. They can choose here from a list of nineteen subjects, ranging from Central and South American capitals to horses and slang. Only one subject to a contestant!



Discover the story of recorded music in 30 fascinating chapters. Enjoy photos of exotic music machines from early cylinder phonographs to stereo. Own THE reference for phonograph enthusiasts. 550 pages.

> HARD COVER \$19.95 HANDBOOK \$9.95

## day, you've got to have this book.

GHOSTS

JWF PUETT

# **GERNSBACK'S 1931 SERVICE MANUAL**



1

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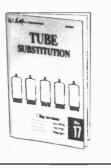
Hugo Gernsback's 550-page manual of over 1500 pre-1932 radio diagrams is still available. We make periodic reprintings of this valuable book, to customer order. The Manual includes over 300 radio models not in Rider's manuals. Bound in a large, handsome post-type cover for easy reference.

**ORDER YOURS NOW AT \$40.00** 

#### Sam's TUBE SUBSTITUTION HANDBOOK

Here's your great helper to bring those old sets back to life. Lists over 13,000 substitutes, including American-American, American-Foreign, and Foreign-American. Use it to find substitutes, and to find out if that "odd" tube was just stuck in to fill the socket. Two-book bargain; shelf reference plus handy pocketbook, 96 pages each.~

**TWIN-PAK BARGAIN \$2.95** 



# HANDBOOK \$8.95

#### 1921-1932 RADIO COLLECTOR'S GUIDE



now only \$ 7.95

E.H. Scott and his immortal radios have

been recaptured in 72 pages of pure Scott.

Includes circuit diagrams of all the truly classic

models, along with old ads, articles and the

story of E.H. Scott's creative life. If you have a

pre-1946 Scott radio, or hope to own one some

BE A SCOTT EXPERT FOR \$00.00

This book makes you an "instant expert" as you go prospecting for those fine old radios. It eliminates guesswork in determining a set's age and "pedigree." There are 264 pages loaded with over 50,000 facts on 9,000 radio models made by 1,100 manufacturers.

HANDBOOK \$6.95

#### MOST-OFTEN-NEEDED 1926-1938 DIAGRAMS

This reprint of Morris Beitman's Supreme Publications book shows circuit diagrams for 600 radio models. Its 240 pages are valuable for historical circuit information, and are great aids in restoring those old sets. Made from Supreme's original artwork, it is clear and readable.



HANDBOOK \$7.00 Also 1941, 1942, 1948 and 1950 Editions \$4.00 each.

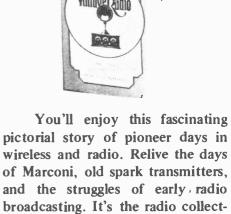




VintageDadio

## **1927 RADIO ENCYCLOPEDIA**

classic. Browse through radio's heroes (who's Marconi?) and hardware (what's a coherer?) of the old days. 175 fascinating pages. Our hard-cover version is a serialized limited edition, an ideal gift.



tures on 263 pages. HARD-COVER \$10.95

or's reference, with over 1,000 pic-

**ADD TO YOUR SHELF OF FASCINATING BOOKS:** 

## **DISCOVER THE EXCITING RADIO COLLECTOR'S HOBBY!**



OUR NEW OFFERINGS on the front page of this flyer are the result of lots of research and poking around for new things that our friends will like. We are pleased to offer the new, enlarged FROM TIN FOIL TO STEREO, which has just been produced by Howard W. Sams. We have also been chasing FROM SEMAPHORE TO SATELLITE for some time, but found only 17 available copies in the U.S. We finally found 100 copies in Europe, and may get still more copies of this beautiful book. We couldn't pass up J.W.F. Puett's superb SILVER GHOSTS, and he had a special reprint job made for us. We're offering the Howard W. Sams TUBE SUBSTITUTION HANDBOOK because we use ours all the time, and figure you might need it, too. The speaker cord idea has been brewing for some time. We'll do headset cords later, if enough of our friends say they want them. Do you?

FEDERAL RADIO fans will want the Schamberger reproductions of instruction booklets for models 8, 9, 55/56, 57, 58, 59, 61, 102, 110, 135, 140 and Federal Junior. All these pamphlets, a total of more than 120 pages, are in an attractive Federal folder reproduction. The set is yours for the bargain price (for Federal fans, that is) of \$35.00.

Free VINTAGE RADIO IRON-ONS are our latest giveaway. Here's the greatest way to get people to come to you with old radio sets. It's the Vintage Radio symbol with the message "Old Radios Turn Me On." Great for tee-shirts on you, your kids or your grandkids. We'll send one with each order.

Alan Douglas' book on radio restoration is ready to go, except for available cash. Anyone want to take a plunge in publishing?

We are pleased if our books helped you pass the wintertime away in pleasant recreation. We are also pleased to keep our offerings coming to you. Our prices are the lowest we can offer and still bring good things to you.







# NO MORE STAMP PRINTS WHEN THESE ARE GONE !







#### **MAGNIFICENT COLOR PRINTS FROM ORIGINAL ART**

These fine "Progress in Electronics" prints are the most striking artwork we've seen in years. Made from the original painting, each print is 8" x 10" with its own coordinated matte background. Prints are on beautiful heavy stock with high-quality inks. It takes nine passes through the printing press to make each of these four masterpieces!

You have a choice of prints for framing, or plaques ready to hang on your wall. Originally conceived as executive gifts by Hall-Mark Electronics, these fine pictures are made by special arrangement with the U.S. Postal Service. Now a limited edition, by Government decree. Here's the ideal gift for you, your relatives and friends!

FOUR BEAUTIFUL PRINTS FOR FRAMING, \$7.50. READY-TO-HANG PLAQUE SET, \$18.50

## **GET PEDIGREES FOR YOUR PET RADIOS!**

Circuit diagrams are our fastest-growing service. Some of our friends want them immediately (or sooner) to get their fine old sets playing again. Others want diagrams to add to the interest value of their collections. We will locate and send you the circuit diagram and other available information on your pre-1951 set for a paltry \$3.50. Send tube layout if you can't find a model number.

MANUFACTURER

MODEL

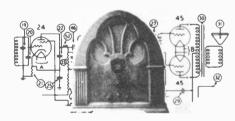
WE WILL BUY OR SWAP for manuals and circuit books that help us help you. Please write us about what you have, with price or swap propositions. WE WELCOME IDEAS ON HOW WE CAN SERVE YOU BETTER.

	ten-DAY GUARANTEE. WE PAY PA	o. Dep't D. Box	2045. Palos Ver	rdes Pusla CA 902'	
ViniaceDad	S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S       S     S		Total		Del
	ADDRESS		ZIP	(	Q



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### CIRCUIT DIAGRAMS



We will research any pre-1951 radio model and send you the circuit diagram and any other available repair information. We'll also tell you the year in which that model was introduced. Your money back if we don't come up with at least a circuit diagram!

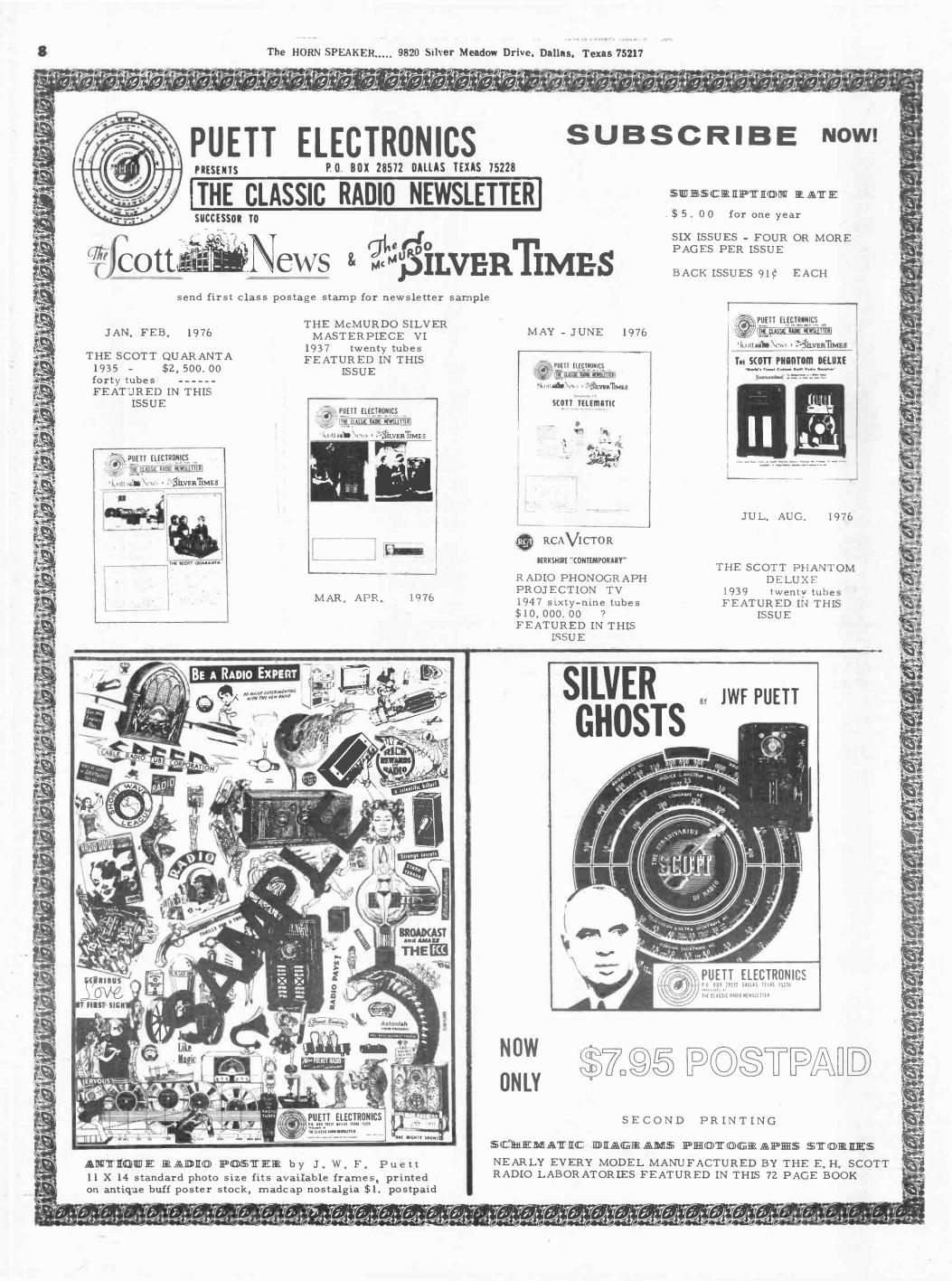
We now have Canadian diagrams, too!

**ANY RADIO MODEL \$3.50** 



Each mailing, we try to come up with something unusual and useful. This time it's a 2-conductor speaker cord, made of traditional materials with the old-fashioned overbraid. Dark brown, with phone tips at one end and spade lugs on the other. Turn those beautiful old speakers into showpieces you can use, display or trade. Specially made; allow several weeks for delivery.

> YOURS FOR \$10.00, 3 FOR \$27.50





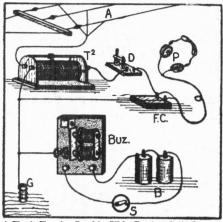
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#### **Receiving Troubles** (1) Jack Pomret, of New York City,

asks: Q. 1. I have a double slide tuning coil, a crystal detector, a fixed condenses and a



A Hook-Up of a Double Side Tuning Coil, Crystal Detector, Fixed Condensor and Phones, is Shown Above. The Method of Connecting a Buzzer for Testing Crystal Detector is Also Illustrated. A-Aerial, T-Two Side Tuner, D-Detector, F. C.-Fixed Condenser, P-Phones, Buz-Buzzer, G-Ground, B-Battery, S-Switch.

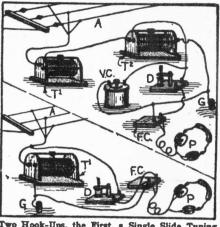
pair of 2000 ohm 'phones. I have never heard the Westinghouse Station. My aerial is a single wire about 70 feet long and 50 feet from the ground, strung out from a wash-pole. Only on rare occasions have I been able to receive telegraphic messages

messages. A. I. Your 'phones are of the regulation type and have been employed by many amateurs very successfully. The reason you are probably not getting the proper results is that you are not adjusting your detector to its point of maximum sensi-tivity and you are not tuning sharply enough. We would advise that you change your hook-up to conform with the circuit here shown and employ a buzzer test as often as you think necessary.

#### Miles and Wave Length

(2) Burton Hays, Philadelphia, Pa., asks : Arlington Station is rated at 2500 Q. 1. How many miles is that? meters.

A. 1. This "rating" which you speak of does not refer to distances in receiving ranges. It is a unit of measurement used to denote the length between the peaks of two adjacent undulations of the same wave



Two Hook-Ups, the First, a Single Slide Tuning Coil, Detector, Condenser and Phones. The Second, in Addition to the AbovelApparatus, a Two-Slide Tuner and a Variable Condenser. A-Aerial, G-Ground, T-Single Slide Tuning Coil, T-Double Slide Tuning Coil, D-Detector, F. C.-Fixed Con-denser, V.C.-Variable Condenser, P-Phones.

and even the a station may be rated at 2500 meters it does not necessarily imply that you will be able to hear that station even ten miles away unless your apparatus is so arranged that it can tune up to that

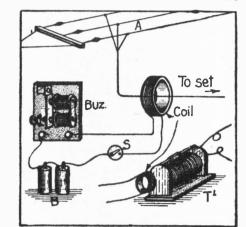
is so arranged that it can tune up to that wave length. Q. 2. Please give the hook-up of a single slide tuning coil, a detector, a fixed condenser, and a pair of 'phones. A. 2. The hook-up is given herewith. Q. 3. Also furnish the hook-up of a two-slide tuning coil, a variable condenser, and the other apparatus mentioned above

and the other apparatus mentioned above. A. 3. Assuming that you intend to use in addition to the single slide tuning coil a two-slide tuning coil, the hook-up is here shown with the single slide tuner used as a loading inductance.

Buzzer Test for Crystal Detector (4) John Hay, of Kansas City, asks: Q. 1. I have heard that there are other methods of employing a buzzer for testing a crystal for sensitivity besides connecting

the wire directly to the ground lead. Can you give me a circuit diagram for this method?

A. 1. There are several methods of doing this depending upon induced currents. One way is to wind several turns of wire around the aerial lead before connecting this to the buzzer; another method is to wind several turns of wire around a cardboard tube 2 or 3 inches in diameter and



In Case of Objections to the Use of the Buzzer for Testing a Crystal as Shown in Question No. 1, the System Indicated Above May Be Employed. Buz-Buzzer, T'-Single Side Tuner, S-Switch, B-Battery, A-Aerial.

then pass the aerial lead either thru or around the cardboard tube or else permit this coil to approach the loose coupler or tuner so as to react upon it. The buzzer is placed in series with this coil. Q. 2. Are there any advantages in using these methods? A. 2. The advantages are slight, but users of this system claim that the sensitive spots so found on crystals are not apt to

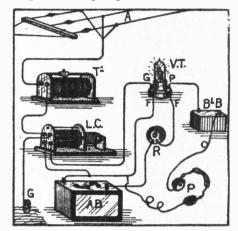
spots so found on crystals are not apt to be lost or burnt and that more sensitive

spots are generally found.

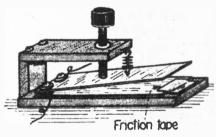
#### Hook-Up

(5) R. M. Gross, Maybell, Colo., requests a hook-up of a loose coupler, load-ing coil, variable condenser, 'phones and an audion detector for reception of undamped wave signals, and asks: Q. 1. Will I be able to hear Arlington

on this set. A. 1. You may have considerable difficulty in receiving Arlington time signals on the west side of the Rocky Mountain range, but there are plenty of govern-ment stations transmitting time signals nearer your immediate vicinity than Arlington, which would come within your range. Hook-up is given herewith.



A Simple Audion Circuit Which Will Receive Damped Waves. T-Single Slide Tuner, L.C.-Loose Coupler, V.T.-Vacsum Tube, B'B.-"B" Battery, H.B.-Six Volt Storage Battery, R-Rheostat, P-Phones, A-Aerial, G-Ground.



The Construction of the Variable Condensor is Shown Above. It is Advisable That Every Amateur Construct One or More of These Condensors as They Can Always Be Used.

Science and Invention for April, 1922

# TUBES

	•		SALE	ENTIRS		HIGHEST	BID		
		CONTAC	T DICK SULL	IVAN, 66 HIL	LOCK ST., RO	OSLINDALE MA	02131		
231	1885	24 <b>HA</b> 7	66B05	26H4	36W4	67J7	212K8Y	61457	25047
533	1AGL	25AW4	26BX7	16HZ8	16W4GT	17L7	51297	314W7	250 <b>C6</b>
734	2AG7	25BC3	16ex7gt	16J5	16W6GT	147N7	11258	214Y4	4 <b>50x6</b>
236	2ACG7	15T4	36BY5	2 <b></b> 6J8	16W7	5797	112SC7	116GY5	162X2A
137	2CK6293	25V6GT	16BY5GA	16лм6	1616	67R7	812SF5	117BE3	10-70L73T
9 <b>38</b>	5OA3	15W4	1606	16J28	26Y7	1757	812SH7	217GB5	7-117L/M7
142	10AL:	1514G	2607	6 <b></b> 6K5	97A5	5747	1	219AU4	1-117L/M70T
143	50B3	15Y4FT	16C8G	16кб	12746	4786	312SL7	119BG6	1117P7
346	2003	1524	16CA4	16L7	6747	17X7	1012SM7	121EX6	211724
649	4OD3	26A6	16CB5	161816	1788	27YL	1	222BH3	
153	50Y4	36AC7	16CB5A	16LU8	1-7AD7	5724	3	122DE4	The amount .
255	12IP23	66AD5	26CD6GA	26N6	117AF7	110E7	112SW7	12547	in front of
]57	4HY75	56AF6	96скц	46N7	27AG7	112A7	112SY7	425AV5	each tube re-
159	4SB7	16AH4	16CQ4	26P5	17AH7	11248	112V6GT	425AX4	presents the
177	1XSFM	16AH4GT	16006	1605	67BL	212411	1	125BQ7	number of
679	1	86AL7	16CX8	18697	87B5	2	213GB5	425CD6	that parti-
281	L LAGL	16AN5	26D10	176R7	4736	2	8	125EC6	cular tube.
482	11AG5	16AQ7	26DAL	4 <b>6</b> 57	37B7	112AN7	4-1445	22516	
385	3 1AH4	326AU5	161066GT	10658	97B8	412AV5	211AF7	625W4	
189	1	76AV5	360N7	5 <b>6</b> SF7	11704	112AX3	514B8	72516	
4 <b></b> 89y	11AK4	16B5	16E5	11,65 H7	4705	4	21405	152526	
1686	4	206B6	36E7	165K7	1706	11204	2	232L7	
2816	111A6	86B7	16EU6	5 <b>6</b> 3 <b>L</b> 7	17E5	412EN6	314E6	133GT7	
2884	51105	26B8	16EW7	16807~~	11756	2	214E7	535A5	
61611	911D5	16B10	2-6EZ5	46SR7	27E7	312006	714F8	235B5	
42050	511E3	56BD5	56F5	16T7	27EY6	212H6	211H7	23524	
1-5642	9175	26BE3	16FW5	5606	167F7	1012J7	2-14.17	140A1	
27027	2	36BL7	1665	36V6	1768	112K7GT	114N7	54525	
17193	23LF4	16BL7GTA	5666	16V6GT	47H7	1	214R7	35045	

FOR SALE OR TRADE



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

#### Deadline: 20th of the preceding month.



"RADIO AGE" a radio magazine devoted to wireless and early broadcast eras. Contains interesting articles written by collectors, articles published in early radio magazines, lots of reprints of famous radio ads, and a classified section for buying or selling radio and electronic items. Subscribe at \$7.50 per year for ten issues. Mail check or money order to Radio Age, 1220 Meigs Street, Augusta, Georgia 30904.

> DISPLAY ADS CAN BE CHEAPER THAN MAILING LISTS

YOU ARE THE ONE WHOM WE WANT TO HELP

LET US DO THE MAILING

DID YOU KNOW THAT FOR ONLY \$50.00 YOU CAN BUY ONE FULL PAGE AD 10-1/8" X,13-3/8" THE EQUIVALENT OF SENDING IN POSTAGE ONLY 385 PIECES @ 13¢ EACH (NOT EVEN COUNTING THE COST OF PRINTING, ETC.)

1/2 PAGE IS \$25.00 6-5/8" X 10-1/8" or 5" X 13-3/8" THE EQUIVALENT OF SENDING ONLY 192 PIECES @ 13¢

1/4 PAGE IS \$12.50 THE EQUIVALENT OF OF SENDING 96 ENVELOPES

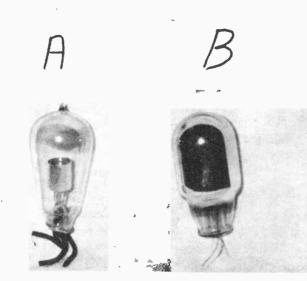
ADS MUST BE GOOD ENOUGH FOR OFFSET REPRODUCTION EXTRA CHARGES IF AD DOES NOT FIT PURCHASED SPACE.

> THE HORN SPEAKER 9820 Silver Meadow Dr. Dallas TX 75217 (214) 286 1673

#### FOR SALE OR TRADE

FOR SALE: Have quantity of Victor, Columbia, Cheney, Sonora, Edison and others in both table and upright model Victrolas. All in excellent working order. Also have restored early 1930's Radios in both Cathedral and Console models. Some battery radios. Send SASE for list. Will do restoration work for anyone desiring same. Philip Guinan, Route 1, Page Road, Hudson N.H. 03051. Ph: 603 883 8586.

LIST OF RADIOS, PARTS, ETC. will be ready about April 30. Send SASE. If you sent SASE and did not receive March list it is because most everything was sold. Burt Noyes, 4 Pinewood Dr., Stratham N.H. 03885.



FOR SALE: Experimental Radio tubes pictured above will be sold to the highest offer. These two tubes were owned by an engineer who worked for Westinghouse in New Jersey. Both tubes are in excellent original condition. Bate - early 1920's. Send \$1.00 for Photo. Send offers to Gary Probst, 336 West Church St., Lock Haven PA 177h5. Phone (717) 7h8-2861. Closing date: July 15, 1977.

FUR SALE: OlA tubes, checked good, \$1.50 ea., plus post. WANTED: Cabinet  $9\frac{1}{2}$  X 26 X 7,  $2\frac{1}{2}$ meters, Grebe, Western Electric, De-Forest sets and equipment. Radiola I, II, X, Seven E, and Grand. Robert and Helen Corum, 125 Locust Ave., Wallington N.J. 07057. Phone: 201 773-0918.

HLANK BAMELITE PANELS - Cut to size, 1/16" to 3/8" thick. Fabricating and engraving services available. SASE for pricing sheet. Parsons, WBIEVO, 22 Forest St., Branford CT 06405.

WE ARE COMPILING a catalogue of early day radio test equipment. Pictures, catalogues and literature of this early day radio test equipment is needed. Give particulars and price in first correspondence. Wm. L. Poston, 3212 Peach Tree Ct., Bakersfield CA 93301.

FUR SALE: Have 2.5 volt at lOamp filament transformers for repairing early AC radios, each \$5.00 postage paid. G. Schneider, 6848 Commonwealth Blvd., Parma Hgts OH 14130.

WD11 Adaptors, use UX199, 120, VT24. No wiring changes, Radiola III's battery hook-up included \$5.25 pp., 2 for \$9.25. Keith Parry, 17557 Horace St., Granada Hills CA 91344.

HAVE SCARCE OLD RADIO - TV tubes. Also some old radios. SASE for prices. Harold's Radio, 3106 N. 3rd., Harrisburg PA 17110.

FOR SALE: Old transmitter tubes. Send SASE for list. K. Parry, 17557 Horace, Granada Hills CA 91344.

\$1.00 for the newly published booklet, "A Pocket Guide to Antique Radio Collecting." Antique Radio Press, Box 42, Rossville IN 46065.

# FOR SALE OR TRADE

WD11 REPLACEMENT TUBES 1940 STYLE. WD11A...\$15. - New exact replacement. WD11R...\$10. - Direct replacement substitute uses, 40 to 100Ma filament current. K. Hanson, 3403 E. Broadway, Long Beach CA 90803.

FOR SALE: Zenith 3R receiver, #565, 4 tube, with a Music Master Radio Reproducer horn speaker. Tubes and battery clamps. Tom Flanders, 4125 W. 127th Street, Apt. 7-W, Alsip, Illinois 60658.

### WANTED

WHO'S got an AK model 19 needing work for sale/trade? Also: AK 20C or 30 cabinet and Grebe Synchrophase? Crocker, Tavern Path, Plymouth MA 02360.

WANTED: Pre-1930 radio test equipment of all kinds, including pannel meters & instruction booklets and cards for radio analizers. Also a cabinet for a Radiola 24, a set of coils for a Grebe CR-18, a diaphragm for a Frost horn speaker or a complete driving unit, a power transformer for a AK type L chassis. Don F. Thompson, Route 1, Box 9C, Samoa, California 95564.

WANTED: Scott, McMurdo Silver, Lincoln, and other classic receivers. Also pre-1930 battery sets, speakers, mikes, etc. J. E. Cunningham, 23W 675 Ardmore, Roselle IL 60172.

WANTED: Any radio fan magazines. Also, any radio magazine with commercial broadcast or star information. Examples, "Radio Guide, Radio Stars, Radio-TV Mirror," etc. Also "Photoplay" magazines. 1 or 100. Fred L. Davis, 5106 Skippy Street, Memphis, Tennessee 38116.

WANTED: Pre-1940 TVs also will pay \$100. for restorable Pilot TV-37. Bill Russell, 64632 Fulton, Van Nuys CA 91401.

WANTED: Power pack or B-plus transformer for 8P6 Power unit for use with type 81 tubes for Majestic 181 or 180 radio. Gene Altland, 4334 Erie, Navarre OH 1:4662.

WANTED TO BUY: Test equipment from the 20s and 30s mint condition preferable. Give complete discription, condition and price, prepaid and insured in first correspondence. Picture will be helpful. Wm. L. Poston, 3212 Peach Tree Ct., Bakersfield CA 93302.

WANTED: Electrolas XVI, XVII, XVIII, 8-30, 9-25, 8-60, 10-50, 10-51, 9-16, 9-18, 120, 9-54, 9-56, Edison C-1, C-2, Scott Wellington, Early Capehart. T. Grattelo, 2818 Central, Alameda CA 94501.

WANTED: Still buying early automobile radios and associated items. Marvin Roth, 14500 LaBelle, Oak Park MI 48237... Phone 313-399-5993.

