

THE HORN SPEAKER

Radio Receivers In the Making

By D. H. MOSS



Left: These Machines Wind a Complete Bobbin in Less Time Than It Takes to Tell It; 3,500 Turns of Wire Per Minute Are Put in Place. A Special Counting Device Tells the Operator When the Proper Number of Turns Are Placed. Right: This Expert Mechanic Is Grinding the Pole Faces of the Magnets. Great Care Must Be Taken as the Removal of a Hairs-Breadth of Metal Too Much, Seriously Affects the Receiver's Operation.



THE radio headset is the most vital part of radio, since it is by the use of this instrument that we are able to convert weak electrical signals into audible sounds. The amount of current transformed into audible sounds depends entirely upon the scientific construction of the headset. That a sensitive receiver requires only .00000000016 ampere to give an audible signal is indeed a convincing argument

years of experience in manufacture that allows a producer of phones to place in the hands of the public a thoroughly reliable and efficient instrument.

The first operation in the construction of a radio headset is the cutting and forming of the receiver case. This is done on a huge punch press, which not only cuts the metal but forms it in cup shape. The metal used is $\frac{1}{8}$ " thick. Aluminum is one of the most desirable metals for this purpose, since it is both light and strong. After the receiver cup is produced, it is placed in another heavy press and the top edge is pinched up or "swedged." It is this operation that produces a shoulder for the threads that engage with the cap. This cutting of threads takes place on a large screw machine and what is known as a geometric die head does the actual cutting. A geometric die head is a threaded cutting tool which stops automatically after it has traveled a certain distance. After the threads are cut a tool comes forward and cuts off the end of the receiver case so

duction of headsets. The bobbin cores must not only be made of the most carefully selected and special steel, but they must all be of exactly the same size. Therefore, the first operation is that of placing the core in what is known as a "go-and-not-go" gauge. The cores that do not "go" are rejected. They must be within the accuracy of .002 of an inch to pass inspection. Each bobbin has two bobbin heads. These bobbin heads are slipped in place next, one at a time. The first one is slipped on by a special machine and the bottom is then passed on to a second machine where the second head is placed on. In this operation both the bobbin heads are securely fixed in place. The operation is a semi-automatic one, the bobbin heads being placed on a rotating disc. They are fed in at the front of the machine and are automatically discharged at the back. In this operation the bobbin heads are simply slipped in

place and the metal is punched in such a way as to hold them there.

Insulation is another important feature in successful receiver manufacture, and so it is necessary to place a very special grade of insulating tape over the bare steel core of the bobbins before they are passed along to the winding machines. An automatic bobbin winding machine has indeed a busy time of it. The wire placed on the bobbins is almost as fine as a human hair, and yet these little machines with their individual electric motors swell the bobbin up with wire at the rate of many thousands of turns per minute. When the proper amount of wire has been placed upon the bobbin, the machine automatically stops. In the meantime the girl operating the machine has prepared a second bobbin and the winding on this is immediately started. In this way these little machines are kept constantly busy winding many hundred thousands of feet of wire in a single day. Those who have attempted to handle No. 40 wire, which is the size used, will at once understand what a wonderful combination of delicacy and efficiency the winding machine represents.

The manufacturer of telephone receivers must be constantly on the alert for grounds or short circuits. The least electrical defect is apt to cause a partial ground or leakage which will completely destroy the sensitivity of the receiver. Immediately after the bobbins are wound they are tested on a high voltage D.C. circuit to make sure that the winding is in no way grounded. A sensitive indicating instrument is connected in the circuit and the action of its needle immediately gives the operator a warning.

After the ground test, a very careful resistance test is made, since it is necessary that the resistance of all bobbins be practically uniform. To measure the resistance of each one of these bobbins on a regular Wheatstone bridge would be a tedious task, which would interfere greatly with the progress of manufacture owing to the slowness of this method. Therefore, a direct reading ohmmeter fully as efficient for the purpose is used. Like a measuring gauge, this ohmmeter is operated on the "go-and-not-go" principle. Two limit marks are placed on its scale and the indicating needle must fall between these. If it does not, the resistance of the bobbin is either too high or too low and it must be relegated to the scrap heap. Variation in resistance must not amount to over 5 per cent plus or minus. This is only another instance where the phone manufacturer must strive for uniformity in production.

The next operation of importance is that of soldering on the lead in wires. If the tiny wires used on the magnets were used to make the connections, they would be sure to break in time and render the receiver useless. To overcome this probability, a heavy wire is used to make the connections.

The finished bobbins are placed in trays where they are allowed to remain for one month without being disturbed. This ageing process allows the moisture to dissipate thoroughly.



Here We See How the Depth Micrometer Is Used in Measuring Up the Distance of the Pole Faces from the Edge of the Receiver Case.

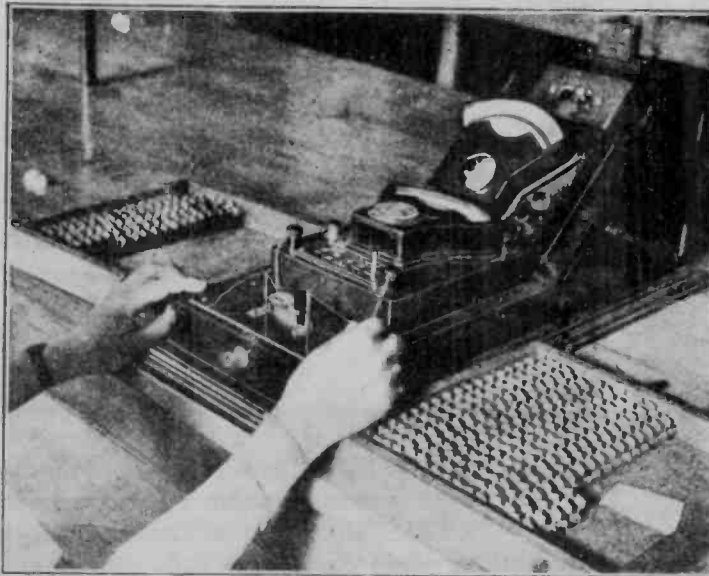
for its high sensitivity. This trifling whiff of energy is barely measurable and this fact should at once impress us with the importance of purchasing headsets that will make the most of the weak currents that we feed into them from our radio receiving set. Trying to obtain maximum efficiency from our radios without the use of accurately constructed headsets is like trying to carry water in a leaky pail.

A highly sensitive receiver must be a product of the most skilled workmanship. A good receiver is more than a mere assemblage of case, magnets, bobbins, diaphragm and cap. The acoustic, as well as the electrical principles, of a receiver are such as to present problems that require the utmost painstaking care in design and engineering. The slightest deviation in design in a radio receiver can make a great change in its sensitivity. It is only constant experimentation and

that the diaphragm will be locked tightly in place and will lie perfectly parallel to the pole faces.

The threads on both the receiver caps and cases must be accurately cut and for this reason costly sets of master gauges are used to constantly check the thread cutting tools.

The construction of the bobbins is a most important and interesting operation in the pro-



This Machine Measures the Resistance of the Bobbins and Tells Whether or Not the Winding is Grounded. The Resistance Is Read Directly Off the Scale. It is the only Machine of its Kind.

Eternal vigilance is the watchword of the scientific phone manufacturer. At the end of the ageing process, the lead-in wires are clipped and skinned and the bobbins are again given a "ground" and an "open" test. This is to check up any changes that may have taken place during the ageing. Of course, in these tests only the perfect bobbins are acceptable. Every bobbin that shows the faintest trace of a ground is rejected.

Rapid assembly is the problem of every manufacturer, and now that all the parts that go to make up the receiver have been described, it is interesting to know how quickly they are placed in the proper relationship to each other within the receiver case. This is done with a special fixture. First the empty cup is placed in this fixture. The bushings for the terminals and the terminal screws are automatically set in place. Then the bobbins are put in their positions and the pole faces automatically aligned. A few turns of the handle bolts the bobbins tightly in place and the receiver is passed along to where the magnets are placed and locked in position. The lead wires are then soldered to the terminals and the receiver is practically finished—finished at least as far as assembly is concerned; they then await only those finishing touches that cure them of any ills they may have before they receive the final stamp of approval.

The early life of a telephone receiver is full of tests. After the assembling operations are completed, each receiver again receives a ground and open test as well as a careful visual inspection.

The distance separating the pole faces and the diaphragm of a good receiver must be carefully adjusted to the proper degree. In fact it is upon this very point that the efficiency of a telephone receiver largely rests. Theoretically the closer the diaphragm is to the pole faces of the bobbin magnets the more sensitive the receiver will be. On the other hand the diaphragm must be free to move and if it is placed too close it will strike the pole faces and clear reception will be impossible. That is the effect we get when a receiver is overloaded.

The distance between these members is adjusted with a grinding process. The receiver case is passed over a rapidly moving grinding wheel in such a way that only the pole faces come in contact with it. The contact is light and only a very small amount of metal is removed. The operator then measures with a micrometer depth gauge the distance that the pole faces are below the edge of the case. This process is repeated until the correct distance is found. A variation of more than one-half of one one-thousandth of an inch is not allowed to pass.

Now the tops of the pole faces are lacquered and the interior of the receivers are carefully cleaned out with previously dried air, which effectively removes any remaining traces of metal dust and dirt.

The magnetizing of the receiver magnets is done in the twinkling of an eye. The receivers are simply placed on a moving belt which passes rapidly over the pole pieces of a powerful magnet. So powerful is this magnet that a fraction of a second's exposure to its field is sufficient to bring the magnets of the receiver to a point of saturation.

A bent or deformed diaphragm would seriously impair the sensitivity and reproduction of a phone, and for this reason great caution must be taken to see that only perfect diaphragms are used. This makes it necessary to give each diaphragm a careful test for flatness, before it is put in place. The diaphragm is a vital part of a receiver, since it is this which vibrates and actually creates the sound under the influence of the magnetic field.

After the caps are screwed in place the receivers are given an audibility test and after this, their tone is matched. The matching of the tone is done by an experienced operator whose duty it is to select and pair receivers that have exactly the same acoustic properties. In other words he mates them, placing together only those that produce exactly the same

sound when tested with a very faint note of uniform frequency. Although the receivers are made under exactly the same conditions, and all of their parts are of exactly the same size, yet each receiver has acoustic properties of its own, which, although they vary within narrow limits, make it necessary to bring together two receivers having approximately the same

characteristics. This insures maximum sensitivity and clarity of tone permitting the clear and distinct reception of extremely weak signals. It is only through matching the tone that a listener is able to hear the same sound in both ears.
Photos courtesy C. Brandes, Inc., N. Y.

Radio News for April, 1923

REGULATED D. C. POWER SUPPLIES HIGH PERFORMANCE/LOW COST

RADIO COLLECTORS,

The RCS-728 Power Supply is designed for the radio collector who wishes to power-up the battery-operated radios of the 1920's, without using costly batteries or hum producing early type battery eliminators.

Since 1971 the RCS-728 has been the collector's choice. Check the specifications below and order with satisfaction guaranteed.



RCS-728 POWER SUPPLY

SPECIFICATIONS

GENERAL-----

Input: 117 VAC, 60 CPS, 75 Watts maximum, fuse protected. Dimensions: 12"W x 8"D x 4½"H. Weight: 6 lbs. Color: Brown hammertone. Semiconductor complement: 11 Diodes, 5 Zeners, 1 Transistor; 2 I.C. Regulators. Meter: 0-8 VDC, 2¼". Output connections: Fourteen Five-Way binding post. Controls: On-Off switch, "A" supply voltage adjustment and Neon lite power on indicator. Construction: Uses custom made power transformer and two P.C. boards of glass epoxy composition to mount all parts.

"A" SUPPLY-----

Adjustable output, .3 to 7.0 volts, voltage regulated, 2.25 amps maximum, automatic current limiting. Regulation: 1.5% maximum change, no load to full load. Ripple: Less than 15 mv p-p at full load.

"B" SUPPLY-----

Output: 22.5, 45, 67.5, 90; 135-140 VDC, 5% tolerance, voltage regulated up to .04 amps maximum load all taps combined. Regulation: 5% maximum change, no load to full load. Ripple: Less than 15 mv at full load.

"C" SUPPLY-----

Output: 3, 4.5, 9, 16.5, 22.5 VDC, 3% tolerance, voltage regulated, .015 amps maximum. Regulation: 4% maximum change, no load to full load. Ripple: Less than 7 mv.

TERMS-----

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POSTAL IDENTIFICATION STATEMENT

The Horn Speaker (USPS 956120) is published monthly, except July and August by Jim Cranshaw, 9820 Silver Meadow Dr., Dallas, Texas 75217. Subscription rates are \$8.50 per

year, \$15.00 two years. Second-class postage paid at Dallas, Texas. POSTMASTER: Send address changes to The Horn Speaker, P.O. Box 53012, Dallas TX 75253. Subscribers, advertisers, photo-

graphers and writers, please use the following address; THE HORN SPEAKER P.O. BOX 53012 DALLAS TX 75253

BACK ISSUES

INDEX AND BACK ISSUE LISTING

DATE	TITLE	AUTHOR	CLASS	K1	K2	K3
77-06-A	WORKMANSHIP AMATEUR APP..	A H LYNCH	RADIO..	GREBE	CRAFT	1921.
77-06-A	SINGER HEARD 500 MILES...	RN 1921..	PROGRAM	CONCE	ARTIS	1921.
77-06-A	CODE CONTEST 44 WPM.....	RN 1921..	RADIO..	AMATE	CW...	1921.
77-06-A	CLUB NEWS NFWA S MEET...	THS.....	CLUB...	MAPS	BARPC	1977.
77-06-A	WESTERN TELEVISION RECEIVER	RC 1932..	TV.....	WESTE	CABIN	1932.
77-06-A	PERSONAL INTERVIEWS.....	B BERNIE.	PROGRAM	THOMA	PERKI	1931.
77-06-A	CHEMIST'S ROLE IN RADIO..	LESCARBOU	RADIO..	DESIG	ROLE.	1931.
77-06-A	FIRST FRENCH CW WITH U.S.	RB 1924..	WIRELES	DELOY	LEON.	1923.
77-06-A	DISC GRAPHOPHONES.....	THS.....	PHONOGR	PIXS	SHORT	1906.
77-07-A	SODIUM TUBE.....	FINKELSTE	TUBES..	CONST	METHO	1925.
77-07-A	FIND OF THE MONTH.....	HAGAR ...	RADIO..	AK...	REMSK	1977.
77-07-A	CLUB NEWS - NEW - CONTEST	THS.....	CLUB...	BARPC	ARCA.	1977.
77-07-A	77 MEET OF SVRPS	THS.....	CLUB...	PIX 6	AUCTI	1977.
77-07-A	PROGRAM LISTING- NOV '38.	RADIO GUI	PROGRAM	RADIO	LIST.	1938.
77-07-A	RADIO SET DIRECTORY.....	RN 1926..	RADIO..	SETS.	CIRCU	1926.
77-07-A	KATE SMITH SPEAKS.....	RADIO GUI	PROGRAM	SMITH	SULLI	1938.
77-07-A	IDEAL HOME ENTERTAINER...	EDISON...	PHONOGR	EDISO	ADVER	1909.
77-07-A	EDISON AMBEROL RECORDS...	EDISON ..	PHONOGR	AMBER	ATTAC	1909.
77-08-A	FIRST BROADCASTING PRES..	S WINTERS	PROGRAM	HARDI	CONGR	1923.
77-08-A	STATION LISTING.....	RADIO GUI	PROGRAM	RADIO	STATI	1938.
77-08-A	DRAWINGS OF RADIO & PHONO	THS.....	R AND P	EMERS	RADIO	1920.
77-09-A	SELL 10 MILLION RADIOS...	S B JONES	RADIO..	HOW..	SELL.	1922.
77-09-A	CLUB NEWS NFWA MEET.....	L BABCOCK	CLUB...	TALKS	CONRA	1977.
77-10-A	SELECTION OF VACUUM TUBES	RN 1923..	TUBES..	TUBE	DESCR	1923.
77-10-A	CLUB NEWS STARTING CLUB.	THS.....	CLUB...	DXING	COLEM	1977.
77-10-A	RADIO INDUSTRY OF TODAY..	G WYNCOTE	RADIO..	MONEY	SPENT	1926.
77-10-A	EDISON PHONO LITERATURE..	EDISON...	PHONOGR	EASY.	PAYME	1899.
77-10-A	STANDARD GRAPHIC SYMBOLS.	RN 1923..	RADIO..	PIXS.	SCHEM	1923.

75 cents each

NOTE TO READERS .. These cards are displayed for their design interest. They are not paid

advertising. Some of the names, possibly, might be out of the hobby altogether. If you have

an interesting calling card and it is not too difficult to print, we can display it, here.



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Mailbox

Dear Jim,

Thanks for the 1972 back issues. I hope that you might devote a few words sometime about the origin of your publication. I think it might be interesting to some of the more recent subscribers like myself. Would there be any possibility of offering copies of pre-1972 issues for sale someday?

I enjoy THE HORN SPEAKER very much. So, please find a check for \$15.50 for another year's subscription on your first class mailing list.

Sincerely,
Ben Boswell
4911 Shoal Creek
Blvd.
Austin, Texas
78756

Editor's note... Thank you for your interest. January 1972 is the first issue of THS about radio collecting. The previous numbers, 1 to 29, were applied to tabloid size advertising papers for grocery and other retail stores. The first issue of the radio collecting newspaper was called THE ANTIQUE RADIO, numbered 30 with some thought about turning it into a regulated publication. The response to the first issue was good to set its course to help the collector on a regular time schedule and within a few months it was named THE HORN SPEAKER.

Jim:

...That is a real interesting article about Mr. Victoreen in the April issue. I guess he is still in good health? I really like the set on the May issue you just sent. The paper you print is a real joy to receive and a must for collectors....

Thanks again,
John Case

Worthington, Ohio

Editor's note...As far as I know Mr. Victoreen is still in good health. Thank you for the kind words.

Horn Speaker,

I have seen a few column or tall thin clock radios of the early 30's-- one in a local antique shop for \$90.00, which quickly became \$70.00. It was a 1931 Westinghouse 9 tube super het with radio dial and controls in right side and

a speaker pointing up.

I have seen another with moulded plywood set that had rather neat smooth lines-- but was badly delaminated from dampness-- controls were on front.

These are not in FLICK OF THE SWITCH or the other McMahon book but his price listings has "column" radios listed.

These were anew stale radio to me. You think you are an expert and lo and behold there is much to learn still.

Emmet M. Catty

Dear Jim,

Would you please publish this in Letters To the Editor? I need help.

I have just acquired a 1925 Thorola Islodane "50 or 55" table model and have to know the batteries required and the hook-up.

The set has 5 tubes. Some 200A and some 300A. Made by Reichmann Company of Chicago in 1925.

Would appreciate anyone sending me details on setting the battery hook-up.

Thanks.

George Friedrich
7162 Jacqueline
Lake Lane
Custer, Wisconsin
54423

Dear Editor:

The time has come for true collectors of antique radios to speak out against the "set rich quick" tactics of a few who enter the supply market.

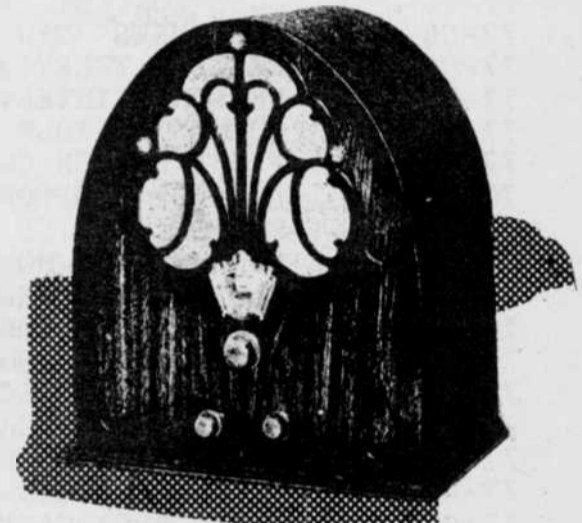
Recently, a collector from the area advertised several quality pieces for sale to the "highest offer." In submitting a reasonable offer, it was quite evident that he had some inexperienced speculators on the hook and that he was going to get rich at their expense.

While I am a firm believer in a reasonable profit for anyone, the whole basis for our hobby is the preservation of this special area of history. Serious collectors, such as I, are having greater and greater difficulty finding equipment at prices which our appraisers and insurance companies will swallow. Every time some sucker buys a radio at a ridiculous price, the trend is set. Soon, only the set rich speculators have access to the market and the legitimate collector is barred from the market place.

It is a shame that THE HORN SPEAKER'S classified pages, a place we all could

trust for selling and trading in the best interest of our hobby, has become victim to this type of prostitution of a rewarding legitimate hobby.

Sincerely,
John G. DeMajo
The DeMajo
Communications
Museum
5912 Saint
Bernard Avenue
New Orleans,
Louisiana



GRILL CLOTH

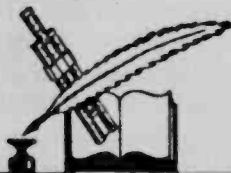
Grill cloth can be discouraging when restoring a cabinet, especially when one hole ruins an otherwise perfect piece. When I remove a grill cloth from a radio, I save the pieces no matter how small they may be, especially if I'm dealing with a common brand such as Philco or RCA. Often, the speaker opening in a radio cabinet is actually composed of many smaller openings separated by narrow pieces of wood. A good example would be a Philco 90 which has 5 openings.

A tear or hole in the cloth may affect a few of these openings and a repair job could involve changing only the cloth in the affected openings.

If you reglue the cloth to the inside of the cabinet and do so even at the narrow sections of wood, you can now cut out the damaged section of cloth and not affect the good parts. Then you can use some cloth from your remnant supply to fill in the opening.

Sometimes there is enough cloth overlapping the edge of the hole inside the cabinet so you can get a large enough piece for a patch. Often, however, the exposed cloth has become discolored, so the color match is not right. Anyway, good luck.

By Ron Boucher
376 Cilley road
Manchester, NH 03103

The Editorial Group,*Ltd...*D. H. MOORE, A.D.I.
DIRECTORP.O. BOX 521
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 Fada 3-Dial TRF, 1923 Model.
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 Philco Model 45-150 Farm; Philco Model 19; Philco Model 112 Massive Console.
 Patterson PR-10 Communications Receiver.
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 Radiola Model 26; Radiola Model 80 Table.
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(*) = RCA Has No Record Of This Massive Console, With Original Mint Albums.

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JAN 1913. NC. WIRELESS CLUB DIRECTORY. WIRELESS LAW. FEB 1913. THE LEPEL QUENCHED SPARK SYSTEM. WIRELESS AND THE AMATEUR. BY H. BERNBACK. THE AUDION DETECTOR. BY R.N. BURGLUND. 8 PHOTOS OF EARLY AMATEUR WIRELESS STATIONS. APRIL. 1913. NC. A WAVE METER FOR AMATEURS PLUS "AN ENCLOSED PERIKON DETECTOR". 18.00

RADIO TOPICS. MAY 1924. NICE ARTICLE ON WE 14A AMP. ELECTRICAL EXPERIMENTER. 10.00

JULY 1918. EXCELLENT ARTICLE ON ARMY SPARK XMTX AND COMPANION CRYSTAL RECEIVER. 18.00

OCT. 1919. NC. FINE ARTICLE BY TESLA ON TELAUTOMATICS. LATEST AMATEUR RADIO RECEIVING APPARATUS. ALSO "AN EFFICIENT RADIO CRYSTAL DETECTOR". 18.00

THE EXPERIMENTER. 5.00

AUG. 1925. RADIO TONOMSCOPE. SEPT. 1925. ONE METER AMATEUR TRANSMITTER. RADIO AGE. DEC. 1925. 80 PAGES. HAS ARTICLE ON RADIO FINALLY LINKING MOTION PICTURES AND THE HUMAN VOICE. RADIO BROADCAST. THE COVERS ON THIS MAGAZINE ARE DELIGHTFUL. AFTER THE STYLE OF NORMAN ROCKWELL. ALL ARE EXCELLENT UNLESS NOTED OTHERWISE. 9.00

JAN. 1925. PIONEERING WITH DEFOREST IN FLORIDA. (2) JUNE. 1924. NO COVER. USES OF THE 3 ELECTRODE TUBE. WITH COVER. 11.00

APR. 1925. WHAT RADIOS DOES THE PUBLIC LIKE? (2) OCT. 1925. SINGLE CONTROL FOR YOUR PRESENT RCVR. NOV. 1923. WHO WILL RETAIL RADIOS? 12.00

APRIL, SEPT (4), OCT, NOV, DEC. 1924. EACH. 11.00

SHORT WAVE CRAFT. NOV AND DEC. 1935, DEC. 1936. EACH. 5.00

RADIO AND MODEL ENGINEERING. NICE SMALL MAG BY SLEEPER. VOL 4 #1 (JAN 7 1924). HAS ARTICLE ON THE TUSKA SUPERDYNE AND ON THE 4 TUBE MONOTROL. 12.00

VOL 4 #2 (FEB 7 1924). ARTICLE ON COCKADAY RECEIVER LONG ARTICLE ON 7 TUBE SUPERHETERODYNE. 12.00

MARCH-APRIL. VOL 4 #3. THE HARKNESS SET FOR OPERATION WITH THE DIODE TUBE OR A CRYSTAL DETECTOR. 14.00

MAY 1924. THE IMPROVED RASLA REFLEX AND 100 METER SET USING THE NON-OSCILLATING SODIUM TUBE. 14.00

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RADIO ENGINEERING. (RENAME VERSION OF ABOVE MAG.) AUGUST 1924. NO-LOSS REGEN SET. 10.00

NOV. 1924. HOW TO BUILD THE BROWNING DRAKE RECEIVER. RADIO ENGINEERING. LARGE SIZE MAGAZINE. ABOUT 60 PGS. CHOCK FULL OF PHOTOS AND ADS AND EXCELENT TECH STUFF. 10.00

OCTOBER 1927. OUTSTANDING ARTICLE ON SPEAKERS. "EXPONENTIAL HORN SPEAKERS." DEVELOPMENT OF THE GASEOUS CONDUCTION RECTIFIER AND "RADIO DEVELOPMENTS OF THE YEAR. PLUS MUCH MORE. 18.00

OCTOBER 1928. DETECTION WITH THE SCREEN GRID TUBE. SCOTT WORLDS RECORD SHIELD GRID NINE RADIO. GOOD ADS ON EARLY TV PHOTO ELECT TUBES. (KIND-LAMP) 15.00

DEC. 1928. GRID CIRCUIT DETECTION DISTORTION PLUS RADIO INSPECTION. 8.00

FEB. 1929. BROADCAST RECEPTION TRENDS FOR 1929. IMPORTANCE OF SCIENTIFIC RESEARCH. BY KETTERING. 9.00

BST OCTOBER 1925. NO COVERS. ARTICLE ON THE NEW RCA TUBES SUCH AS TYPE 120, U1112, UX 210 AND UX 199. HAS MANY NICE ADS. 6.00

WIRELESS AGE. COVER SHOWS TWO MEN EXAMINING RADIO EQUIP PRIOR TO AN AERIAL OVERSEAS FLIGHT. ALSO HAS ARTICLE ON MARCONI WIRELESS TELEPHONE FOR SEA PLANES. 20.00

AUGUST 1919. ARTONS VISUAL RECEIVER FOR DIRECTIVE WIRELESS TELEGRAPHY. PLUS METHODS OF SIGNALING WITH ARC TRANSMITTERS. PLUS THE MARCONI VT -- A THREE ELECTRODE OSCILLATION DETECTOR. 20.00

JANUARY 1920. RADIO INTELLIGENCE IN THE ARMY. COVER SHOWS EXPERIMENTAL NY STATION PLUS A NICE ARTICLE ON VT DETECTOR AND FOUR STAGE RESIS. COUPLED AMP. 20.00

WE HAVE A LIST OF ADDITIONAL MAGAZINES FOR SALE. SEND LARGE SASE MAGAZINE LIST.

WIRELESS AGE. INCORPORATING THE MARCONIGRAPH. NOV. 1913. NC. PICTURES BY WIRELESS. KOLSTER TALKS TO RADIO MEN. 200 METER AMATEUR SET BY BUCHER. NO ADVERTISEMENTS. 20.00

WIRELESS AGE. THE RADIO MAGAZINE. OCTOBER 1924. "RADIO IN POLITICS" + "THE D COIL AGAIN." "RADIO FIRSTS" 14.00

DEC 1924. DX--A VULETIDE SOTRY OF RADIO PLUS THE BEAM SYSTEM BY MACILVAIN PLUS "MYSTERIES OF THE VACUUM TUBE." 12.00

APRIL 1925. "LOUD SPEAKER HORNS" + EXPERIMENTS WITH THE 3 CIRCUITS TUNER. 11.00

JUNE 1925. "PORTABLE SHORT WAVE TRANSMITTER". RADIO MECHANICS. EDITED BY M.B. SLEEPER. 11.00

JAN. 1927. A AND B ELIMINATORS. 6.00

MARCH 1927. HOW TO REDUCE RADIO SQUEALS. 6.00

MAY 1927. SOCKET POWER SUPER-HETRODYNE. 6.00

OCT. 1926. HUSH HUSH SHORT WAVE SET. 7.00

NOV. 1926. HOW TO BUILD 210 POWER AMP. 7.00

RADIO. DELIGHTFUL COVERS IN THE STYLE OF ROCKWELL. JUNE 1929. RECENT METHODS OF AUDIO AMPLIFICATION. 7.00

NOV. 1929. NEWER THAN SCREEN GRID. BY GREBE RADIO. 8.00

MAY 1927. A SHORT WAVE SUPER REGENERATIVE SET. 8.00

JULY 1925. SILVER'S NEW SUPERHETERODYNE. + QUARTZ CRYSTAL OSCILLATOR. 11.00

MARCH 1924. RECEIVER CONSTRUCTION NUMBER. 12.00

NOV. 1924. A JAZZED UP HISTORY OF RADIO + POINTERS ON RADIO CONSTRUCTION. 12.00

JULY 1924. A THREE TUBE REFLEX RECEIVER. + THEORY OF THE REFLEX CIRCUIT. 12.00

DEC. 1923. 25 LEADING ARTICLES BY 25 LEADING WRITERS. THE ELECTRICAL WORLD. NO COVER. NOV. 1894. LOTS OF ELECTRIC, STEAM ENGINE AND TELEPHONE ADS. 8.00

MAY 26, 1906. NC. ELECTRICAL MERCHANDISING. LARGE MAGAZINE OF 200 PAGES OR MORE. DELIGHTFUL COVERS. LOTS OF RADIO ADS IN AMONGST THE ELECTRICAL STUFF. MOSTLY RETAILING ELECT. STUFF. 8.00

APRIL 1924. WHAT SHALL I DO ABOUT RADIO THIS SUMMER? MARCH 1923. WHAT IS HAPPENING TO RADIO? 8.00

EVERYDAY ENGINEERING MAGAZINE. MARCH 1920. CONTAINS "POPULAR MECHANICS" KIND OF STUFF. VERY INTERESTING. HAS ARTICLES ON MAKING AN AUDION SOCKET + RADIO FREQ. AMP. WITHOUT TRANSFORMERS. 7.00

RADIO INDEX. SHOWS RADIO STATIONS AND FREQ. MARCH 1929. RADIO BROADCAST. BEAUTIFUL COVERS. 1.00

APRIL 1927. HOW TO BUILD A SHORT WAVE AC OPERATED TRANSMITTER + THE DESIGN OF LOUD SPEAKERS. 9.00

AUGUST 1926. WHATS NEW IN FALL EQUIPMENT. THIS IS A VERY NICE ISSUE SHOWING LOTS OF SPEAKERS, ETC. BEAUTIFUL SHARP GLOSSY PHOTOS. 12.00

WIRELESS WEEKLY. BRITISH PUBLICATION. GREAT FOR YOU COLLECTORS OF FOREIGN RADIOS. ADS ARE VERY INFORMATIVE. APRIL 1, 1925. A.C. IN TRANSMISSION + A THREE VALVE RECEIVER WITH SERIES TUNED ANODE. 7.00

APRIL 22, 1925. A NEUTRODYNE RECEIVER WITH TWO HIGH FREQ STAGES. (SLANT FRONT EXPOSED TUBES.) 7.00

OCTOBER 22, 1924. A THREE VALVE LOUD SPEAKER SET. + A 12 PAGE PHOTOGRAVURE SECTION. 7.00

DEC. 17, 1924. DISCOVER OF THE OSCILLATING CRYSTAL. RADIO WORLD. MANY COPIES OF THE VERY INFORMATIVE WEEKLY MAGAZINE. MANY PICS AND ADS. WORTH THE PRICE. 3.50

DEC. 1926. THIS ONE HAS TIRED PAPER BUT ALL READABLE. HAS NICE ARTICLE ON ALEXANDERSON TELEVISION MACHINE. FE. 6, 1926. "THE FENWAY--A VERSATILE SET FOUR TUBES OR NINE." 2.50

JULY 1927. BELIM PUMPS VACUUM TO INSURE TELEVISION. TIRED PAPER ON THIS BUT NICE INFO INSIDE ON TV. 2.50

DEC. 31, 1927. HAS HANDY HINTS LIKE HOW TO MAKE A DISHPAN TALK (CAUTION-IF THE HANDS ARE A LITTLE MOIST A SHOCK MIGHT BE EXPERIENCED.) 2.50

DEC. 21, 1928. HB 33 AND HB 44 CONSTRUCTION. 2.50

OCT 26, 1929. RADIO THEORY FOR SCHOOL BOYS. 2.50

SEPT. 17, 1932. DIAGRAM OF 4 TUBE DIAMOND. 2.50

SEPT 13, 1932. HOW TO DESIGN CIRCUITS USING 82 RECTIFIER. 2.50

AUG. 27, 1932. MARCONI MAKES ULTRA WAVE FOLLOW EARTH'S CURVATURE + SENSATIONAL 4 TUBE SET. 2.50

JAN 2, 1932. MODULATED RF OSCILLATOR. 2.50

SEPT 24, 1932. 5 TUBE AC DIAMOND. 2.50

APRIL 1933. NEW DETECTOR HOOKUP. + EARLY AC-DC SET. 2.50

JAN 12, 1924. ARTICLE ON RUSSIAN RECEIVER--THE LVOVITCH. 2.50

JAN 26, 1924. HOME-MADE LOUD TALKER. + OWEN YOUNG ENCOURAGES THE AMATEUR. 2.50

FEB. 23, 1924. COVER SHOWS PHOTO OF PRESIDENT CALVIN COOLIDGE MAKING HIS LINCOLN DAY ADDRESS OVER WEAF. + A TWO TUBE REFLEX SET WITH A KICK. 4.00

OCT. 4, 1924. A DANDY ONE TUBE DX SET. + AN ARTICLE BY HAZELTINE. + WONDERFUL TONE ON 3 TUBES. 4.00

JAN. 31, 1925. A REGENERATIVE NEUTRODYNE FOR MORE DX. RADIO TRUST CHARGE TO BE HEARD MARCH 18. 4.00

DEC. 27, 1924. GREAT DX ON SPEAKER WITH 3 TUBE REFLEX. FULL PAGE INFO ON THE HETRO MAGNETIC MODEL 5H. 4.00

NOV. 14TH 1925. JAR OF WATER SWELLS VOLUME OF SET! 4.00

JAN 3, 1925. GREAT COVER. SHOWS AMEREX ACE. + ADDING RF TO A REGENERATOR. 4.00

OLD RADIOS--

1. BURNS HORN SPKR - MINT 150.00

2. AK SECRETARY DESK. VERY GOOD, BUT NEEDS GRILL. HARD TO FIND. NO SHIP. \$ 200.00

3. FRESHMAN FLOOR MODEL. EXCELLENT. 60.00

4. DEFOREST D12 W/LOOP. LEATHERETTE FINISH. 275.00

5. CROSLY TRIDYN 3R3. VERY GOOD. 65.00

6. W.E. AMPLIFIER 7A. EXCELLENT. 75.00

7. ARBORPHONE MODEL 27. VERY GOOD. 50.00

8. FRESHMAN W/INTERNAL SPEAKER. NO LID. 40.00

9. STEWART WARNER MODEL 300. EXCELLENT. 45.00

10. SONORA TWIN DIAL. FAIRLY GOOD. 30.00

11. AK MODEL 33. VERY GOOD. 50.00

12. MICHIGAN RADIO IN HOME MADE CASE. PRETTY. 50.00

13. STANDARDYNE. NO LID BUT OTHERWISE EX. 45.00

14. AK 35. VERY GOOD. 30.00

15. AK MODEL 20 COMPACT. EXCELLENT 75.00

16. AK MODEL 20 COMPACT. GOOD 55.00

17. GENERAL INSTRUMENT 6 TUBER-3 KNOBBER. VG 50.00

18. RADIOLA III. FAIRLY GOOD. 45.00

19. CROSLY 51. GOOD. 75.00

20. RADIOLA IIIA. VERY GOOD. 95.00

21. KELSO. 6 TUBER PLUS 1928 LETTER ON HOW TO MAKE IT PLAY BETTER. VERY GOOD BUT NEEDS TWO FOOT PADS. 40.00

22. FADA MODEL 1924 NEUTRALETTE. VERY GOOD. 55.00

23. SILVER COCKADAY SINGLE CONTROL RADIO. VG 50.00

TELEGRAPH ITEMS

1. WESTERN ELEC. 7A SOUNDER. 1000 OHMS. EXC. \$40.00

2. TYPE J7A FLAME PROOF KEY. EXC. 12.00

3. BUNNELL SOUNDER. BEAUTIFUL. 30.00

4. OLD STRAIGHT KEY. CAST IRON PAINTED BASE. KEY HAS LIGHT RUST. 20.00

5. BUNNELL SOUNDER 2-11. 500 OHM. EXC. 45.00

6. BUNNELL SOUNDER AND KEY. EXC. 60.00

7. VIBRAPLEX BLUE RACER STANDARD. EXC. 30.00

8. SIGNAL SCUNDER. EXC. 30.00

9. BUNNELL SOUNDER-KEY COMBO. 20 OHMS. 50.00

10. WESTERN UNION SOUNDER AND COMPANION KEY. SOUNDER 1B 400 OHMS AND KEY-POLECHANGER 1B. 70.00

11. BRASS STRAIGHT KEY. (CMH) EXC. 20.00

12. BUNNELL KEY. NICKEL. NO MOUNTING BASE. EXC. 20.00

13. BUNNELL SOUNDER AND WESTERN ELEC. T AND T CO. KEY. CRUDE AND DIRTY AND SOME SMALL PARTS ARE MISSING. 25.00

14. WESTERN ELEC SOUNDER 1917. V.G. 25.00

15. BUNNELL 2-7 SOUNDER 30 OHMS. MISSING SPRG. 30.00

16. WESTERN UNION MAINLINE SOUNDER. 158 120 OHM 35.00

17. UN-NAMED SIGNAL RELAY. EXC. CAST IRON BASE. 30.00

18. WESTERN UNION TEL CO. SIGNAL RELAY 3D MYRS. 25.00

19. WESTERN ELEC. AT AND T BRASS KEY. 20.00

20. CYCLOPEDIA OF TELEPHONY AND TELEGRAPH. BY AMERICAN TECHNICAL SOCIETY. 1916. 1500 PGS. FOUR VOLUMES. EXCELLENT CONDITION. SET 100.00

VINTAGE HAM GEAR.

1. GONSET 6C105 2 MTR XCVR. GOOD \$ 25.00

2. HEATH DX35. VG BUT KNOBS NOT ORIGINAL 25.00

3. HEATH VF1 VFO. VERY GOOD. 10.00

4. HEATH HW22 20 MTR XCVR. VG. NO PWR/SPLY 45.00

5. HEATH HG 10 VFO. EXCELLENT W/PWR SPLY. 18.00

6. BLACK WIDOW 6 MTR XCVR. GOOD W/MANUAL 20.00

7. HALLCRAFTERS 400 SPEAKER. EXCELLENT 40.00

8. HALLCRAFTERS SK99. VERY GOOD. 60.00

9. HALLCRAFTERS S108 RCVR. FAIRLY GOOD. 30.00

10. SWAN MODEL 175 TRANSCIVER. (75 MTRS). 50.00

11. HEATH DX 40. REPAINTED FRONT PANEL. 15.00

12. COLLINS 310B EXCITER. EXCELLENT. 100.00

13. HEATH DX100. VERY GOOD. PICK UP ONLY. 45.00

14. CLEGG ZEUS TRANSMITTER. 6 AND 2 MTRS. 70.00

15. NATIONAL NC 98 RECEIVER. VERY GOOD. 55.00

16. NATIONAL SPEAKER. (FOR HRD 60?) EXC 40.00

17. ABBOTT INSTRUMENTS MODEL TR4 ULTRA SHORT WAVE XCVR. GOOD. 30.00

18. ELMAC A54H TRANSMITTER. GOOD. 20.00

19. VINTAGE HAM SPEAKER. HAS 10" JENSEN AND MAY BE FOR EARLY HAMMARLUND RCVR. 40.00

20. TWO 24 HOUR ELECTRIC CLOCKS ON NICE PANEL FOR WALL HANGING. 30.00

21. HAMMARLUND HQ129X. WORKS FINE BUT S METER IS NOT ORIGINAL. 75.00

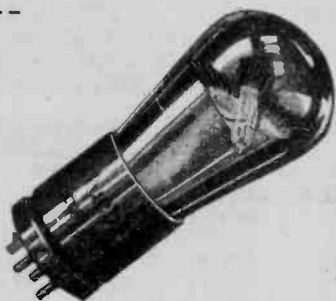
22. HALLCRAFTERS SKYBUDDY. EXCELLENT. 125.00

TERMS

ALL ITEMS "AS IS". NO REFUNDS OR RETURNS. CONDITION IS STATED IN BROAD TERMS. BATTERY RADIOS UNDER \$125 ARE WITHOUT TUBES. PAPER ITEMS ARE SOLD FOR VALUE OF CONTENTS ONLY. CONDITION RANGES FROM FAIR TO MINT. ALL ARE READABLE.

AUTUMN SEASON 1982 --- OLDE TYME RADIO COMPANY ---- 2445 Lyttonsville Road, Silver Spring, MD 20910. (301) 585-8776. -- After 7:00 p.m. local time. No. 182B

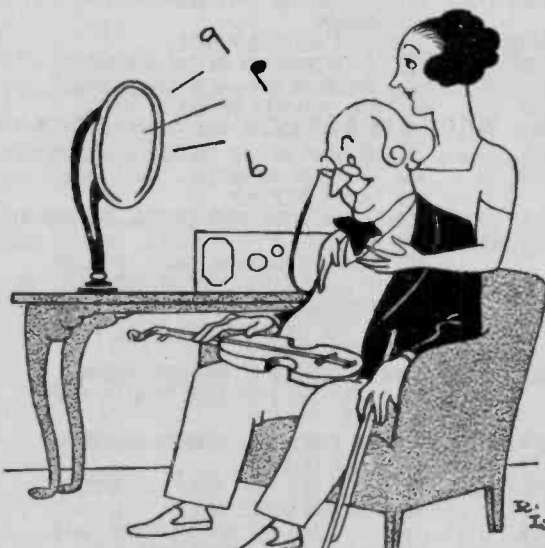
- 1. GENERAL SERVICE HEADPHONES --- \$3.00 each or 2 pair \$5.50.
- 2. REPLACEMENT SPEAKERS PM OR DYNAMIC. Many sizes from 2" ovals to 10" rounds. Send us your needs for quote.
- 3. 60uf-250V filter caps. 50 cents each or 3/\$1.00. --
- 4. NEW VOLUME CONTROLS 1/4" SHAFT. MANY SIZES FROM 10 OHMSTO 1.0 MEG. OHMS. \$1.25 EACH OR 3/ \$3.00
- 5. WIRE DEPARTMENT - 6 conductor AK style \$1.25/ft. - 5 conductor AK style \$1.00/ft. - brown silk type power cord .30/ft. - white small size silk type power cord .20/ft. - old style cloth twisted pair power cord .45/ft. - single conductor hookup wire (cloth) .12/ft. - #20 magnet wire double cotton wrap 80 feet \$3.50 ft. - #18 bare stranded copper wire .25/ft. --



***** SPECIALS *****

- .. STANCOR INTERSTAGE XFMR-SINGLE PLATE TO P.P. GRIDS \$3.50 EA. UNUSED.
- .. CAPACITOR BONANZA 20 ASSORTED CAPS \$1.00 UNUSED
- .. VINTAGE TEST EQUIPMENT. WRITE FOR LIST.
- .. NEED SCREW BASE CAPACITORS SEE ITEM #28.
- 6. Exact replacement Radiola II or VIII leather handle. only \$4.50. --
- 7. OLDE TYME RADIO TUBES tubes from the 20's thru the 60's used and new. write for a quote. ORDER OF \$10.00 or more may take advantage of the following special 38, 1N5, 717A all unused 50 cents each or 3/\$1.00. --
- 8. Need name plate or escutcheon screws? We got them. guage length respectively 0-1/4", 0-3/8", 1-1/4", 1-3/8", 2-1/4", 2-3/8" 10 for 50 cents. Above are brass. Can be ordered with flat or round head style.--
- 9. Ant., rf, osc. coils manufactured by Meissner. Broadcast band and some SW band and multiple band coils only \$3.00 each (higher for special units) --

OLDE TYME RADIO COMPANY
2445 LYTTONSVILLE ROAD
SILVER SPRING, MARYLAND 20910



- 10. Slip over replacement coil for ant. and RF coils. Just tell us the diameter of your defective coil form \$1.50 each. --
- 11. I.F. transformers (Meissner) most frequencies. \$3.00 each (higher for special units) --
- 12. Power transformer 300-0-300V at 90ma. 5V at 3A, 6.3V at 3.5A \$15.00 each. --
- 13. Used power transformers. From \$7.00 to \$10.00. State your needs and we will send a quote. --
- 13a. Mallory electrolytic capacitors small fr type 10 uf x 10 uf at 450V \$1.00 each or 6 for \$5.00. last ones.
- 14. We cannot provide WD-11's but we can provide WD-11A's made with 864's in WD-11 bases. 864 tubes are new. Work better than WD-11. \$15.00 each or 2 for \$25.00. --
- 15. DIAL LAMPS - #47.. - #44..20 cents each or 6 for \$1.00. Other types as available. 25 cent each or 5 for \$1.00.
- 16. Crystal set items - a) galena xtals \$1.50 each b) xtal detector ass'y w/xtal \$3.50 each c) unmounted xtal detector ass'y without xtal \$2.00 each.
- 17. Headphone replacement cords a) Brandes and Baldwin types \$4.35 each b) Olde tyme speaker replacement cords \$3.50 each. c) replacement pin jack tips 25 cents each or 5/\$1.00
- 18. Schematics for sets manufactured from 1920 thru 1946 \$1.50 each for complete data package \$2.50 --

- 19. Olde tyme instrument knobs 25 cents each or 5/\$1.00
 - 20. Olde tyme dial plates 25 cents each or 5/\$1.00 ---
 - 21. Vintage headphones limited supply \$6.50 per set
 - 22. Fahnestock clips 15 cents each or 8 for \$1.00 --
 - 22a. Stancor output transformers primary imp. 2,000 ohms secondary imp. 3.2 ohms. Good for matching triode to speaker. \$2.50 each.
 - ... If you don't see it, ask..
 - 23. Olde tyme phone plug \$1.85 each --
 - 24. SPECIAL SMALL SIZE 40 uf., 200V CAPACITOR.. \$1.00 EA OR 3 FOR \$2.75. --
 - 25. Olde tyme porcelain antenna insulator \$1.35 each or 2 for \$2.50 --
 - 26. 16 x 16 uf at 150V \$1.25 each or 2 for \$2.00 --
 - 27. 12 x 20 uf at 150V \$1.00 each or 2 for \$1.65 --
 - 28. SCREW BASE CAPS.. TAKE THE HUM OUT OF ANYTHING. 40 uf/ 40 uf at 450V \$3.00 each or 2 for \$5.00.
 - 29. RESISTOR LINE CORD REPLACEMENT KIT. - 5 TUBE SET TYPE RLC-2 \$4.50 - 4 TUBE SET TYPE RLC-1 \$3.50 --
 - 30. Padder capacitors for BC superhets \$1.00 each --
 - 31. Olde tyme spaghetti ass'd lengths and colors. Standard plug \$3.00
 - 32. Tie down terminals 3 part 13 cents each OR 10/ \$1.00 --
 - 33. CAPACITOR BONANZA ASSORTED 20 / \$1.00 20 PF. TO 0.5 UF. 200 TO 600V
 - 34. OLDE TYME AC PLUGS.. \$1.10 EACH OR 3/\$2.95 --
 - 35. Olde tyme toggle switch with short bat with ball \$1.85 each. Good for AK-37, etc. Radiola 17, 18, etc. --
 - 36. Electrolytic capacitor FP type cardboard insulation tubes. state size required. 25 cents each 5/\$1.00 --
 - 37. SPEAKER GRILL CLOTH, 2 PATTERNS.. \$3.25 SQUARE FOOT. SEND FOR SAMPLE.
- OUR SHIPPING POLICY -----
 We ask that you send sufficient funds to cover shipping and handling costs. Overages if under \$1.00 will be credited to future orders or refunded if requested. Overages over \$1.00 will be returned with your order when it is shipped. Unless specified otherwise, orders weighing 1 lb. and under will be mailed by first or third class mail. Order over 1 pound will be shipped by U. P. S. When making an inquiry, please send S.A.S.E. PHONE AFTER 7:P.M. E.S.T. (301) 585-8776.

club news



RADIOFEST 1982 .. A GOOD EXAMPLE OF PRICES AND RADIO COLLECTING AT CLUB ACTIVITIES
Joe Willis, chairman of Radiofest '82 Committee, reported:

"Radiofest '82, held at the Holiday Inn, Elgin Illinois, on August 7, 1982 attracted a crowd of over 200 collectors and enthusiasts from across the country and Canada as well as Milan Italy. Early bird arrivals included; John and Marian Caperton of Louisville Kentucky, Bruce and Charlotte Mager of New York, Bob and Mary Locke of St. Cloud, Minnesota and Carlo Longaretti of Milan, Italy.

Saturday dawned warm and humid and by 6:30 a.m. Paul Giganti of San Carlos, California and Clare and Frances Anderson of Weston Canada were anxiously searching out the bargains offered by many of the 75 swap meet trunks that were already open. Gary Schneider had no trouble selling a United Wireless type D tuner for \$1750.00 and Bob Wilkerson had a ready buyer for a Voice From the Sky speaker at \$350.00. Other sets sold included; De-

Forest Interpanel \$900.00, Grebe CR-5 with amplifier \$500.00, Federal Junior crystal set \$100.00, Magnavox Telemagafone \$400.00, Zenith 3R and 4R \$185.00 and \$195.00, W.E. 14A \$350.00, Radak HZ \$185.00. Sets also offered for sale included; DeForest D-10, A.K. 9, Kennedy XV and V, Clearfield glass radio, Paragon RA-10, A.K. 10, Radiola Grand, Radiola V, Pittsburg SP-2, Crosley Pup, Tuska 224 and 228, and 4 grandfather clock radios as well as many AC and cathedral sets and speakers plus boxes and boxes of tubes and parts. Most of the choice pieces were gone by the time the rain came at 4:00 p.m.

Meanwhile, in the show and tell room, Lee Wease and David Zamjahn were telling us some secrets on refinishing radio cabinets and Mike Stosich was speaking on Scott. John Caperton completed the show and tell with an excellent presentation on Leutz (John should know, he acquired a Leutz Silver Ghost at our swap meet).

That night 75 people attended the banquet emceed by Randy Renne. Carlo Longaretti received the prize for coming the longest distance. Other prize winners included David Johnson (one year membership in the participating clubs), Charlotte Mager (sterling silver pen and pencil set) and Rosemary Dittmer (RCA TV, radio, clock combination). A film of the Zenith factory of 1928 was shown to complete the evening entertainment, which was complimented by a display of early Zenith receivers on display in the contest room.

Everybody attending considered Radiofest '82, which

was presented by the Antique Radio Club of Illinois, an affiliate of The Antique Radio Club of America, in cooperation with The Indiana Historical Radio Society and The Mid America Antique Radio Club, a success and are looking forward to Radiofest '83. Plans to be announced on or about February 1, 1983. Check your Horn Speaker for details. At this time, I would like to thank everyone who made Radiofest '82 a huge success."

Joe Willis,
chairman, Radiofest
'82 committee

Dr. Ralph Muchow and Dr. Larry Wright graciously opened their museums for tours during Radiofest '82. Many people had a chance to see some very rare equipment.

CONTEST WINNERS - RADIOFEST '82
CLASS I A.C. RECEIVERS

BALDWIN UNIVERSAL PORTABLE
FRANK HEARHCOTE

CLASS II BATTERY SETS

MARCONI PHONE V2A
CARMEN AMBROGGIO

CLASS III CRYSTAL SETS
TELEFUNKEN RECEIVER

JERRY VANICEK

CLASS IV SPEAKERS

BOSCH CONE SPEAKER
BILL DEWITT

CLASS V HOMEBREW

5 TUBE SET
BARRY JANOV

CLASS VI TUBES

DISPLAY
CHARLEY BARONE

CLASS VII ADVERTISING

CROSLEY DISPLAY
CRAIG BALL

*** BEST OF SHOW ***

MARCCNI PHONE V2A
CARMEN AMBROGGIO

Any question write Joe Willis at 525 Oakdale No. 524, Chicago, Illinois 60657

SAGA OF THE VACUUM TUBE

by Gerald E. J. Tyne

SPECIAL OFFER

For several years Gerald Tyne's *Saga of the Vacuum Tube* was offered to collectors at \$19.95 in hardcover and \$9.95 in softcover. Now Radio Age has a limited supply (100 ea.) at \$9.95 in hardcover and \$6.95 in softcover plus \$1.25 handling charge. Get yours while supply lasts as offer expires when inventory is sold. No more editions will be printed by the original press. Send check or Money Order to Radio Age, 636 Cambridge Rd., Augusta, Georgia 30909.

CLASSIFIED

FOR THE HORN SPEAKER

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FOURTH PAGE \$20.00

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*** FOR SALE ***

 FOR SALE: CATHEDRAL, BATTERY and AC RADIOS from 1920's and 1930's. Please send self addressed stamped envelope. J. Albert Warren, Box 279, Church St., Waverly, PA 18471.

 FOR SALE. PILOT 3" TV, OLD BATTERY SETS, SPEAKERS, HEADPHONES, OLD RADIO BOOKS AND MAGAZINES, CRYSTAL SETS, RADIO PARTS AND SEVERAL THOUSAND RADIO TUBES. BILL LAVERTY, 1012 W. GENEVA STREET, EGG HARBOR, NJ 08215.

 SEND LARGE SASE FOR PICTURED LIST OF 20'S AND 30'S RADIOS, TUBES, BOOKS AND PARTS. JERRY FINAMORE, RD # 2, BOX 623, NEW CASTLE, PA 16101 (412) 656-0338.

 ZENIT 4R RECEIVER. Good cabinet, all knobs. Looks fine. Interior needs restoring \$195; RCA "Junior Ribbon" 74B mike. New. \$65.00; Shure Broadcast cardoid mike. Very good \$50.00; Magnavox R3. Works fine \$65.00. All plus UPS. Want IP500/501. Paul C. Crum, 6272 N. Cicero Avenue, Chicago, Illinois 60646.

 EDISON BOOKLET. "THOMAS EDISON PROFESSIONAL INVENTOR" published by the British Science Museum, \$6.00 postpaid. Also 110 copies of Edison's 1880 lamp patent. Finest quality 11 x 14 reproductions. All for \$29.50 postpaid. Same, Bell's telephone transmitter, \$29.50. J. Denny, 2929 North Westmoreland, Arlington, Virginia 22213

 WESTERN ELECTRIC 7A AMPLIFIER (1922 MINT- UNTESTED) \$120.00 :: DAY-FAN OEM 7 TYPE 5106 (1924 MINT WORKS) \$70.00 :: A K "H" HORN (EXC.- OPEN DRIVER) :: EARLY 20'S 1 TUBE HOMEBREW (V.G.) \$30.00 :: RADIOLA 18 (1927) (EXC.- WORKING- COMPLETE) \$70.00 :: SEND SEVERAL SASE'S FOR MONTHLY UPDATE OF 10 PAGE LIST OF RADIOS, SPEAKERS, RARE AND COMMON TUBES, BOOKS AND MAGAZINES. LET ME KNOW THE TYPES OF RADIOS YOU'RE LOOKING FOR. RON BOUCHER, 376 CILLEY RD., MANCHESTER, NH 03103 (603) 669-1698 EVENINGS

 LEFAX HAND BOOK \$12.00, W.E. 4A MICROPHONE \$85.00, CROSLEY 5-38 (V.R., P. 81) \$65.00, FALCK (V.R. P. 130)? W6THU, 1545 RAYMOND, CA 91201

 FOR SALE: 1928 AMERICAN BOSCH "2.8." Cabinet mint. plays. With tubes= \$85.00 plus shipping. George Friedrich, 162 Jacqueline Lake, Custer, WI 54423



SPEAKER UNIT 41" TALL, CAST-ALUMINUM, ORNATE, RARE. EXCELLENT CONDITION. \$150.00 OR TRADE FOR AUTOMOTIVE RADIOS AND ASSOCIATED ITEMS. MARVIN ROTH ANTIQUE RADIOS PARTS SERVICE, 14500 LA BELLE, OAK PARK, MI 48237. PHONE (313) 399-5993

 FOR SALE: PERFECT A K - HORN SPEAKER model -H \$75.00. ron Burtzos, 915 Crane Drive, Apt. no. 703, DeKalb, IL 60115

 RIDER'S MANUAL (early edition) \$20.00, Utah wooden speaker \$15.00, 100's of tubes 75 cents. SASE for list. Bruce Harbeck, 1316-38th, Sioux City, IA 51104

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 NEW EXPANDED FALL CATALOG AVAILABLE. Catalog 982 contains many new one of a kind items-- tubes, radios, books, reprints of early radio catalogs, service manuals and much more. Substantial price reductions on some of our new and used tubes. If you're not on our mailing list, send several first class stamps for this and future catalogs. THE OLD RADIO PLACE, 616 Nelson Street, Rockville, MD 20850

 TUBES FOR SALE - TESTED AND OK - SHIPPED PREPAID. 01A \$6.00 each - 24, 26, 27, 45, 80 \$5.00 each. What do you need? NO WD-11s. M. L. Young, Rt. 2 Box 481, Hot Springs, AR 71901 Phone (501) 262 1368

 FOR SALE -- TUBES --- 1 BRIGHTSON BLUE IN ORIGINAL FELT LINED BOX- BEAUTIFUL \$60.00; 1 ZETKA PROCESS 01A- RARE- WITH COPY OF ORIGINAL AD \$55.00; 1 SODION D-21 IN ORIGINAL BOX WITH SPEC. SHEET \$40.00; 1 VT-1 BRASS BASE PLATINUM FILAMENT \$25.00; 1 QRS RED TOP IN ORIGINAL BOX \$35.00; 3 RCA WD-11 PHENOLIC BASE \$25.00 EACH; 2 MU-20 DAVEN \$20.00 EACH; 1 CLEARTRON CTX-201 HAS BEAUTIFUL LABEL \$15.00; 2 DE FOREST AUDION ISOLANTITE CASE \$15.00 EACH; 1 MAGNATRON 201A \$12.00; 4 UV201A BRASS BASE \$15.00 EACH; 1 WD-12 BRASS BASE \$35.00; 2 UX-112 BRASS BASE \$20.00 EACH; MANY UX201AS, DV'S, UX200 AND UV200 RCA \$5.00 EACH; MANY CX201A'S CUNNINGHAM \$6.00 EACH. MANY 199S AND 120S \$7.00 EACH. HAVE HUNDREDS MORE COLLECTOR TUBES, NO LIST NOW- SEND WANTS. MANY NEW IN BOXES. WILL SELL OR TRADE ENTIRE COLLECTION OF OVER 500 NEW AND USED TUBES. \$900.00. NOTE.. ALL TUBES HAVE GOOD FILAMENTS. NO DUDS. TUBES WILL BE SHIPPED UPS AND VERY WELL PACKED, INCLUDE EXTRA FOR SHIPPING, EXCESS WILL BE REFUNDED. RICHARD CANE, 8391 N.W. 21ST., SUNRISE, FL 33322, (305) 741-6838 BETWEEN 7:00 - 10:00 P.M. FOR SALE 1. AMPLION HORN SPEAKER- EXCELLENT CONDITION ALL ORIGINAL \$250.00; 2. PATHE GRECIAN NEAR MINT DISC. LARGE HAS DESIGN SIMILAR TO DOCTOR'S INSIGNIA WITH TWISTED SNAKES. ABSOLUTELY MAGNIFICENT LOOKING- WORKS \$250.00; 3. MAGNAVOX R3 HORN. EXCELLENT CONDITION \$90.00; 4. PEERLESS SPEAKER LARGE GOTHIC FANCY CABINET WITH BUILT IN POWER SUPPLY. BEAUTIFUL \$100.00; 5. ATWATER KENT- LAMP- HARD TO FIND. BEAUTIFUL \$300.00; 6. AK-225 TOMBSTONE FANCY CABINET, WORKS WELL \$165.00; 7. AK-185-A SMALL DECORATIVE TOMBSTONE, EXCELLENT CONDITION \$195.00; 8. CHROME SCOTT ALLWAVE 15, EXCELLENT CONDITION WITH ORIGINAL SHIPPING CARTOON, ABSOLUTELY BEAUTIFUL \$375.00; 9. AERIOLA JR. CRYSTAL SET, GOOD CONDITION AND ORIGINAL \$175.00; 10. MUSETTE TOMBSTONE- RARE- ART DECO STYLE WITH KNOBS ON SIDES, A BEAUTY \$200.00; 11. PHILCO 51 CLOCK RADIO, EXCELLENT CONDITION \$200.00; 12. WESTERN ELECTRIC 522 CW DRIVER UNIT WITH BASE. PAT. JULY 23, 1918. ADD A

SMALL HORN AND IT WILL MAKE A MINATURE SPEAKER, EXCELLENT CONDITION, WORKS, \$35.00; ALL ITEMS SHIPPED UPS. ADD EXTRA FOR SHIPPING AND INSURANCE. EXCESS REFUNDED. ALL SETS WITH TUBES. RICHARD CANE, 8391 N.W. 21ST., SUNRISE, FL 33322 (305) 741-6838 BETWEEN 7:00 AND 10:00 P.M.

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WESTERN ELECTRIC model 518W speaker, very good.. \$80.00; RCA 100 speaker, very good.. \$30.00; RCA 100A speaker, excellent .. \$30.00; Baldwin type C phones, mica diaphragm very good .. \$15.00; Brandes Superior phones, good .. \$8.00; Atwater kent model 20, very good .. \$85.00; Atwater Kent model 20C, very good .. \$80.00; Atwater Kent model 30, very good .. \$65.00; Majestic SUPER B with tube, needs capacitors, good .. \$15.00; Bob Husted, 270 N.W. Third Ct., Boca Raton, FL 33432. Phone (305) 368-8358 (on vacation September 20 - October 12)

FOR SALE: 01A TUBES- TESTED GOOD- \$4.00 EACH- CROSLY TRI-DYN \$65.00- CLOCK SHAPED LIKE OLD TV \$20.00- WE 7A AMP \$50.00- VAN VALKENBERG CRYSTAL SET \$100.00- PHILCO 84- \$50.00- AK CELLARETTE PAGE 148 VINTAGE RADIO \$350.00- VIBROPLEX KEY IN CASE \$50.00- SHIPPING EXTRA- SASE FOR LIST- ROBERT CORUM- 125 LOCUST AVENUE- WALLINGTON, NJ 07057 (201) 773-0918

WANTED

WANTED: SCOTT PHILHARMONC. Prefer Napier console. Dick Howe, 9318 Wickford, Houston, TX 77024 or call (713) 680-9945

collect.

WANTED: 1923 OR EARLIER RADIO NEWS, Science and Invention, Modern Electrics, Any pre 23 mags or catalogs. Also any Grebe receivers or amps. Also need HZ. Ray Garner, Rt. 1, Box 320, Big Sandy, TN 38221.

"WANTED ATWATER KENT GRAND-FATHER CLOCK; ALSO A.K. CONSOLES OF THE "LATER" ('34 THROUGH '36) YEARS. ALL A.K. TABLE SETS OF THE '30'S. ALL A.K. ADVERTISING. WRITE ARTHUR AXLEMAN, 19652 WEEBURN LANE, TARZANA, CA 91356."

WANTED: AK-165 CHASSIS; RADIOLA 26 ANTENNA LOOP AND BATTERY BOX; CROSLY 148 SIX INCH SPEAKER AND FIELD AND DIAL ESCUTCHEON OR WILL BUY JUNKERS. MARC CARLSON, 587 11TH STREET, BROOKLYN, NY 11215

WANTED- COILS (plug in) for Grebe CR-18s, 3 General radio sockets 6 tube), parts for Leutz C. and door box Zenith tuner VII. Bob Lane, 2301 Independence Avenue, KC, MO 64124

WANTED: 2ND IF TRANSFORMER Majestic part #10253, or MEISSNER # 20-3457, Harold R. SCHROEDER, 1870 Donna Avenue, Los Osos, CA 93402

A. WORKING OR COMPLETE CHASSIS for Crosley Super 6 (table mod). B. Working or complete chassis and wiring harness with push buttons for Zenith Model 105669 schematics and photos. C. Case for R C A Model 9TX-31 in F.O.S. page 153. D. A K type E speaker working and suitable for display. E. Good used power supply model RCS-728 priced reasonable. F. A K model 33 schematic and photos (desk model) any other inform. G. Zenith Transoceanic ('52-'54) in exc. operating condition priced reasonable. H. Case for R C A speaker RCA100a suitable for display. I. Schematics, photos and any info. on Crosley Pal Model 53F. J. Schematics, photos and any info. on Philco 91, F.O.S. 122 in lowboy cabinet. Frank L. Pratt, 730 Revere Avenue, Fort Walton, FL 32548 (904) 862-4329. No collect calls.

WANTED: SPEAKER AK F-4 TO MATCH WITH AK 60c. Steve Morton, 905 West 1st., North Platte, NE 69101

WANTED, WILL PAY TOP CASH PRICES. TUBES- MEYERS RAC3, SODION (ANY), WEAGRANT, WELSH 501, CUNNINGHAM C199, RADIOTRON

UV199, SOCKETS FOR ABOVE TUBES AND FOR WE215 (CAN USE 2). DE FOREST DV3, DV1, MOOREHEAD (ANY). CLIFF BLACKSTONE, P.O. BOX 1695, ALBANY, OR 97321

WANTED: 1936-37 STROMBERG-CARLSON MODEL 240-W THREE BAND RECEIVER OR EQUIVALENT WITH OR WITHOUT CABINET. GEORGE LONG, 1500 HIGHLAND AVENUE, MANHATTAN BEACH, CA 90266.

WANTED: AMERICAN BOSCH BATTERY SETS, PARTS, LITERATURE, ETC. HAVE OTHER SETS, PARTS TO TRADE. ALL POSTAGE REFUNDED. KENT KING, 5028 DIERKER ROAD APT. C2, COLUMBUS, OH 43220 (614) 459-5360

A. K. DETECTOR UNIT FOR BB #3902 A.K. COUPLED CIRCUIT TUNER #3752 OTHER B.B. COMPONENTS TO COMPLETE RESTORATIONS. VINNY SHEA, 6 ROCKY RIDGE ROAD, EASTON, CT 06612

WANTED: Lincoln 8-80, Crosley Gembox AC, Bandbox Jr., model 52, 5-38, VC and X., Grebe KT-I portable, Chelsea Radio regenerative, Jewett Super Twelve, MRC-4, New Paragon Two, Three and Four, Armstrong regenerative ACE type V, Radiocraft D-4 and D-5 2 step amplifier, Ware type T, Workrite Aristocrat 5-T Neutrodyne, Majestic Century Six model 463, Freed Eisemann model 350, ETHERPHONE one tube reflex, Remler type 333 amplifier panel, 330 Detector, 331 amplifier panel, 502 variometer and 505 variocoupler panels. D'arcy Brownrigg, Chelsea, Quebec, JOX 1N0, Canada

WANTED: OLDER SPEAKERS: GOODMAN (ENG.) 8" AXIETTE, 12" AXIOMS #400, 300 ETC. TRIAXIOMS #412, 612, 550, 212. STENTORIAN (ENG.) 15" DUPLEX COAXIALS. NORELCO, STEPHENS FULL RANGE. STEPHENS COAXIALS 15" 150 CX, 12" 120CX, #122AX" 12"-8". RCA 15" -12" COAXIALS. RACON (RACON ELECTRIC, N.Y.C.) 15" 3 WAY #15HTX, X-B, 12" HTX. STROMBERG CARLSON 12" COAXIALS RF487, 482. JENSEN 12" SG 300, 223, 222. UNIV. 8" #308. CALRAD 8" COAXIALS #CR-8X, 12" 12 TX4, 1. G.E. 12" COAXIALS #1A-401. STROMBERG CARLSON 15" COAXIALS RF 484, 483. SINGLES OK. NO CABINETS. B. KALISH, 565 WALNUT AVENUE, REDLANDS, CA 92373 (714) 792-0220. ASK, WRITE YOUR FRIENDS."

WANTED ANY OF THE FOLLOWING CHASSIS: WESTINGHOUSE WR15, GRAYBAR 9, RCA R11, GE K-62; KEVIN BOSOMWORTH, 2225 BRIDGE, ALBERT LEA, MN 56007

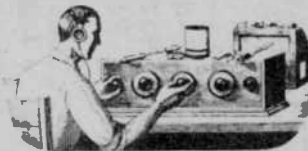
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 PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228
ANTIQUE RADIO TOPICS
LIST NO. 20 THE CLASSIC RADIO NEWSLETTER

NOTE: PLEASE ORDER BY CATALOG NUMBERS LISTED HEREIN. EXAMPLES: CRT1, CUL1, SPH1, TUBES BY TYPE NUMBER - 6L6 ETC.

ANTIQUE RADIO TUBES

ALL TUBES ARE THOROUGHLY TESTED AND GUARANTEED. SEE DETAILS IN CATALOG NO. 20.

04Z	S	1H4	S	2A1	S	6AS	S	6B6	S	6J8	S	6SR7	S	7B5	S	7ZM7	S	7ZM7	S	8546	S	9	\$9	\$11	1201	S	6
04J	S	1H6	S	2A5	S	6AG	S	6B7	S	6K5	S	6SS7	S	7B6	S	7ZAT7	S	7ZAT7	S	8547	S	9	\$9	\$11	1202	S	6
04B	S	1J5	S	2A7	S	6A1	S	6B8	S	6K6	S	6ST7	S	7B7	S	7ZAT7	S	7ZAT7	S	8548	S	9	\$9	\$11	1203	S	6
04C	S	1J6	S	2B7	S	6A2	S	6B9	S	6K7	S	6SU7	S	7B8	S	7ZAU7	S	7ZAU7	S	8549	S	9	\$9	\$11	1204	S	6
04D	S	1J7	S	2C7	S	6A3	S	6BA	S	6K8	S	6SV7	S	7C5	S	7ZAV7	S	7ZAV7	S	8550	S	9	\$9	\$11	1205	S	6
04E	S	1J8	S	2D7	S	6A4	S	6BB	S	6K9	S	6SW7	S	7C6	S	7ZAW7	S	7ZAW7	S	8551	S	9	\$9	\$11	1206	S	6
04F	S	1J9	S	2E7	S	6A5	S	6BC	S	6KA	S	6SX7	S	7C7	S	7ZAX7	S	7ZAX7	S	8552	S	9	\$9	\$11	1207	S	6
04G	S	1K4	S	2F7	S	6A6	S	6BD	S	6KB	S	6SY7	S	7C8	S	7ZAY7	S	7ZAY7	S	8553	S	9	\$9	\$11	1208	S	6
04H	S	1K5	S	2G7	S	6A7	S	6BE	S	6KC	S	6SZ7	S	7C9	S	7ZAZ7	S	7ZAZ7	S	8554	S	9	\$9	\$11	1209	S	6
04I	S	1K6	S	2H7	S	6A8	S	6BF	S	6KD	S	6TA7	S	7CA	S	7ZBA7	S	7ZBA7	S	8555	S	9	\$9	\$11	1210	S	6
04J	S	1K7	S	2J7	S	6A9	S	6BG	S	6KE	S	6TB7	S	7CB	S	7ZBB7	S	7ZBB7	S	8556	S	9	\$9	\$11	1211	S	6
04K	S	1K8	S	2K7	S	6AA	S	6BH	S	6KF	S	6TC7	S	7CC	S	7ZBC7	S	7ZBC7	S	8557	S	9	\$9	\$11	1212	S	6
04L	S	1K9	S	2L7	S	6AB	S	6BJ	S	6KG	S	6TD7	S	7CD	S	7ZBD7	S	7ZBD7	S	8558	S	9	\$9	\$11	1213	S	6
04M	S	1L0	S	2M7	S	6AC	S	6BK	S	6KH	S	6TE7	S	7CE	S	7ZBE7	S	7ZBE7	S	8559	S	9	\$9	\$11	1214	S	6
04N	S	1L1	S	2N7	S	6AD	S	6BL	S	6KJ	S	6TF7	S	7CF	S	7ZBF7	S	7ZBF7	S	8560	S	9	\$9	\$11	1215	S	6
04O	S	1L2	S	2P7	S	6AE	S	6BM	S	6KL	S	6TG7	S	7CG	S	7ZBF7	S	7ZBF7	S	8561	S	9	\$9	\$11	1216	S	6
04P	S	1L3	S	2Q7	S	6AF	S	6BN	S	6KM	S	6TH7	S	7CH	S	7ZBF7	S	7ZBF7	S	8562	S	9	\$9	\$11	1217	S	6
04Q	S	1L4	S	2R7	S	6AG	S	6BO	S	6KN	S	6TI7	S	7CI	S	7ZBF7	S	7ZBF7	S	8563	S	9	\$9	\$11	1218	S	6
04R	S	1L5	S	2S7	S	6AH	S	6BP	S	6KO	S	6TJ7	S	7CJ	S	7ZBF7	S	7ZBF7	S	8564	S	9	\$9	\$11	1219	S	6
04S	S	1L6	S	2T7	S	6AJ	S	6BQ	S	6KP	S	6TK7	S	7CK	S	7ZBF7	S	7ZBF7	S	8565	S	9	\$9	\$11	1220	S	6
04T	S	1L7	S	2U7	S	6AK	S	6BR	S	6KQ	S	6TL7	S	7CL	S	7ZBF7	S	7ZBF7	S	8566	S	9	\$9	\$11	1221	S	6
04U	S	1L8	S	2V7	S	6AL	S	6BS	S	6KR	S	6TM7	S	7CM	S	7ZBF7	S	7ZBF7	S	8567	S	9	\$9	\$11	1222	S	6
04V	S	1L9	S	2W7	S	6AM	S	6BT	S	6KS	S	6TN7	S	7CN	S	7ZBF7	S	7ZBF7	S	8568	S	9	\$9	\$11	1223	S	6
04W	S	1M0	S	2X7	S	6AN	S	6BU	S	6KT	S	6TO7	S	7CO	S	7ZBF7	S	7ZBF7	S	8569	S	9	\$9	\$11	1224	S	6
04X	S	1M1	S	2Y7	S	6AO	S	6BV	S	6KV	S	6TP7	S	7CP	S	7ZBF7	S	7ZBF7	S	8570	S	9	\$9	\$11	1225	S	6
04Y	S	1M2	S	2Z7	S	6AP	S	6BW	S	6KW	S	6TQ7	S	7CQ	S	7ZBF7	S	7ZBF7	S	8571	S	9	\$9	\$11	1226	S	6
04Z	S	1M3	S	3A7	S	6AQ	S	6BX	S	6KV	S	6TR7	S	7CQ	S	7ZBF7	S	7ZBF7	S	8572	S	9	\$9	\$11	1227	S	6



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SEPTEMBER

THE HORN SPEAKER

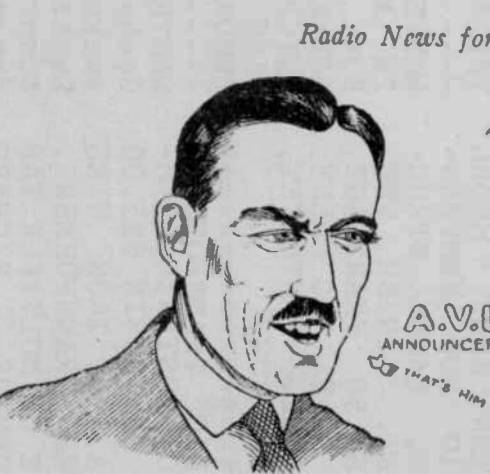


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Robert Weidaw
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Kolin Hagar
 ANNOUNCER AND THE CAT'S LEFT EYE-BROW OF WGY

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