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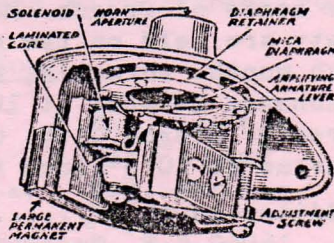
CALL LETTER

THE TRINITY LOUD SPEAKER



TYPE "A1"
21" FIBER
HORN
\$25.00

TYPE "B"
(For Phonographs)
\$12.50 →



An ear phone is an ear phone no matter how fancy the horn that covers it may be, and, due to the delicate construction of an ear phone it is utterly incapable of giving true tone reproduction, especially, when relatively large currents are passed thru its coils, such as the output of a two-stage or power amplifier.

The Trinity Loud Speaker element embodies the well-proven and tested principles of the phonograph reproducer with the soundest principles of electromagnetic design best adapted for loud speaker operation. It is not an ear phone when placed on a head band and a loud speaker when covered with a horn. It is a sturdy loud-speaking element ALWAYS.

Send for Literature.

TRINITY RADIO CORPORATION

466 TREMONT STREET, BOSTON, MASS.

Contents

POWER SUPPLY.....3
 ATMOSPHERICA.....4
 OUR PEOPLE.....5-7
 RADIO BONFIRE.....8,9
 TWO TUBE DX-ER.....10,11
 1923 WARDS HEADSETS.....12
 Ol'e.....13
 CARTOON CLIPPINGS.....14
 I.Q. TRIMMER.....15
 SWAP SHOP.....16

CALL LETTER

The Call Letter is a monthly publication of the Northwest Vintage Radio Society, a non-profit organization, incorporated in the state of Oregon. Meetings of the Society are held on the second Saturday of each month, normally, at the Buena Vista clubhouse located at 16th and Jackson Streets, Oregon City, Oregon. Meetings convene at 10 o'clock A.M.

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Call Letter Address: P.O. Box 02379,
 Portland, Oregon, 97202

POWER SUPPLY

Now that the holidays are over, we'll soon be thinking about putting our menu together for the spring swap-meet. If any of you ladies out there have any suggestions for something quick, easy and delicious to serve, please let us know. We're always open to suggestions.

Also, if you have a favorite recipe for coffee cake or rolls that you would be willing to bring to one of our regular meetings, please "lay it on us!" The fellows always enjoy home baked goodies.

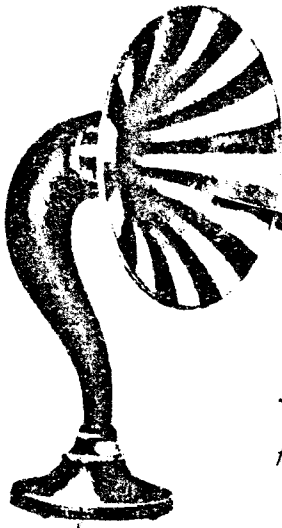
Here is another recipe from Aunt Sammy's Radio Recipes Revised. These cold, crispy days call for hot bowls of soup served with crusty rolls.

Potato Soup

2 cups diced raw potato	4 Tbs. butter
1 quart boiling water	1 Tbs. flour
1 pint milk	1 tsp. salt
1 onion	Pepper
2 Tbs. finely chopped parsley	

Cook the potato in the boiling water until soft, drain off and keep 1 pint of the potato water, and rice the potato. Heat the milk in a double boiler with the onion. Cook the parsley in the fat, add the flour, stir until well blended, combine with the milk and potato, stir until smooth, cook for 2 or 3 minutes, and add the salt and pepper. Remove the onion before serving.

Bobbie Kibler



ATMOSPHERICA

By J

The Radiophobic Autobuff

There was a man in Portland Town
Who dearly loved the past.
He owned a Briscoe and a Dart--
Antique autos, they were classed.

He polished up the shiny hoods,
He fixed every faulty part,
He drove 'round and 'round the town
To show off his work of art!

He bought a bunch of radios,
Made fifty years or more ago.
He "gussied" up the cabinets,
And made the escutcheons glow.

Then rounding up a power source,
He tried to make them perk;
But no matter how he tried,
The dang things wouldn't work!

I'm sure glad they didn't though,
'Cause he thought "old radios" stunk;
They irritated him so much,
I bought the lot for junk!

** ** * ** ** *

Dingy Question

Mission, Ma, or Jackson Bell,
Which is which, pray tell?
Is one the other's brother,
Or his father or his mother,
Or are they unrelated, well?

OUR PEOPLE

By BILLY DEVEY

The post holliday blahs seemed to affect attendance at the January meeting. I suppose the aftermath of the rough weather may have been taking a toll as well. In any case, we had a good meeting and here are some of the highlights.

#

The new officers were formally installed and Jim Mason handed over the silver (painted) gavel to Craig Hoaglin, our new president. The minutes from the December meeting were read and Doug gave his last treasurers report, stating that a balance of \$341 exists in the treasury.

#

The Salem Flea Market will have the theme "The Sounds of Nostalgia" on Feb. 10th. Radios and phonographs are to be the featured items. This will probably be a good place to spend a dollar or two...(hundred).

#

Andy Bell requested that he continue to have the responsibility for show and display arrangements for the club. His request recieved unanimous approval from club members.

#

Joey Tompkins shared an episode he had last month as a result of running a "WANTED" add for old radios in the newspaper. It seems that shortly after Joey ran the add, he got a call from a sweet little old lady who had a beautiful old console radio that she thought he really ought to see to appreciate. Well, after a half hour trek down Salem's outback roads, Joey found the non-descript house wherein the radio in question was to exist. There it was -

A three legged (it had four legs at birth) RCA console that appeared to have spent the majority of its life on the woodpile out behind the barn. Woa -- the best is yet to come -- the price! Joey could have stolen this gem for only one hundred dollars. You guessed it - he let this one slip through his fingers.

#

A motion was made seconded and approved to have a number of business sized cards printed up with the club LOGO on the front side. On the back side will be a place for club members to write in their name, address and phone numbers. The club meeting time and place will also appear on the cards.

#

Hugh Ranken made a suggestion that we attempt to bring in one or more experts to the club meetings to give talks on refinishing and restoration. Anyone with more ideas along this line should either bring them up at the next meeting or talk to Hugh or Craig.

#

There was a good turn out of equipment shown at the January meeting. Jim Mason showed a Heacock set which he reconstructed from 3 sets. Joey T. had a non-descript something-or-other that he picked up for \$10.00 at a garage sale. This something-or-other did have a WX12 and 5 199s. Andy Bell had a 5 tube Murphy multiband set he picked up for \$25.00. Alan Shaddock showed an Insuline Corp. of America A.C. Companion which used two 27s. One 27 tube was a rectifier.

#

Your editor wants to apologize for the delay in getting out last months "Call Letter". It was the weather - honest. The copy went to

press (XEROX) right on schedule. The delay occurred in the circulation department - also the responsibility of your ED.

#

Since a number of individuals missed the January meeting who wanted to show off their communications receivers, we will be holding over communications gear for the February meeting as well. Let's expand the show and tell portion of this months meeting to include headsets and earphones as well.

#

Chuck Kibler says that we need the following issues of the Call Letter to complete the collection in the club library:

Vol. 1, No. 1, Dec. 74
Vol. 1, No. 2, Jan. 75
Vol. 2, No. 8, Jul. 76
Vol. 3, No. 6, Jun. 77
Vol. 5, No. 9
Vol. 6, No. 1

Xerox copies of these will be appreciated if you have any originals.

#

Many of the McMahon's publications are still available as follows:

4 "Progress in Electronics" Prints		\$3.75
Vintage Radio	Hard	10.95
	Soft	8.95
Flick of the Switch	Hard	10.95
	Soft	8.95
1927 Radio Encyclopedia	Hard	14.95
	Soft	10.95
1926 - 1938 Diagrams		7.00

Send orders to:

McMahon's Vintage Radio
Box 1331
North Highlands, Ca., 95660

Stage A Radio BONFIRE

Have each dealer contribute sets according to size of his business, availability of sets, or have each give the same number.

Have a parade down the main streets, of delivery cars, service cars, etc., all with banners on their sides.

If possible have a police detachment, a city official and prominent members of the radio trade in open cars leading the parade.

Put as much music in the parade and at the fire as possible. Use portable amplifying systems, radios with plenty volume and tone or a brass band.

Make it a civic affair.

Get the support of the newspapers.

HERE'S WHAT BONFIRES DO

- (1) They get rid of obsolete sets once and for all.
- (2) They provide an opportunity for a great deal of radio publicity.
- (3) They convince the radio public in a dramatic way that their obsolete sets are absolutely worthless—either for their own use or as trade-ins.
- (4) They increase sales by inducing the radio user to take stock of his radio equipment, and become interested in the new radios.

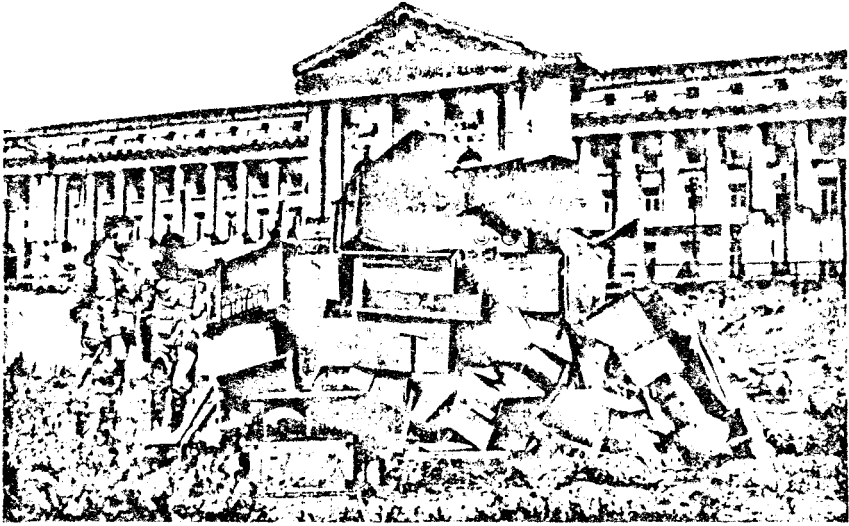
Answering Some of the Objections

Anything that has any junk value at all can be removed before the sets are burned.

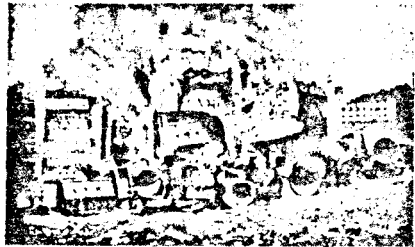
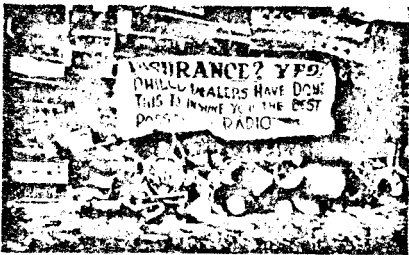
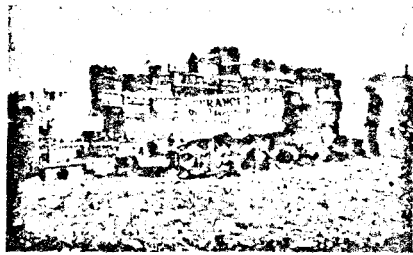
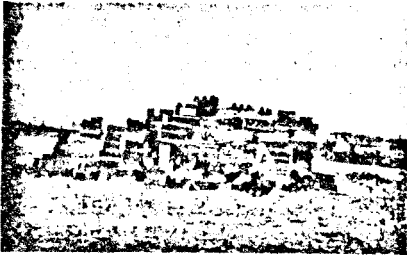
To offset adverse publicity from charities complaining of burning valuable property, offer five or ten worthy charities the pick of the pile before burning.

Or better yet, present a new set to several charities at the time of the fire.

Have a fire company on guard during the blaze, it adds to the glamor, and eliminates fire hazards.



A Civic Affair—Radio Bonfire in the Civic Center, San Francisco



Step by Step in a Radio Bonfire—
Staged by Portland Dealers

CONTRIBUTED
By TOM JAMES

The 2-Tube Short Wave "DX-ER"

By W. F. MARSH

● THE 2-Tube "DX-ER", here illustrated, answers the need for a battery-operated short-wave set of simple and proved design. There is nothing elaborate or complicated about it. It is frankly conventional, easy to build, and unusually dependable for short-wave results. For those who want to start exploring the busy short-wave channels, the "DX-ER" is a very logical and straight-forward type of set to construct.

As will be seen from the schematic diagram the circuit is the old familiar "stand-by" single-circuit regenerative type, with tickler feed-back. The placement of the parts is extremely important for effective results. One of the line drawings illustrates the most practical layout for maximum efficiency. It is also important to use good quality parts. Shoddy equipment thrown together carelessly will not bring the desired results.

For economical operation, two type 30 low-drain two-volt tubes are used. The first serves as a regenerative detector; the second is used as an audio amplifier. The tuning range of the receiver is 15 to 200 meters, covered by a set of four improved plug-in coils.

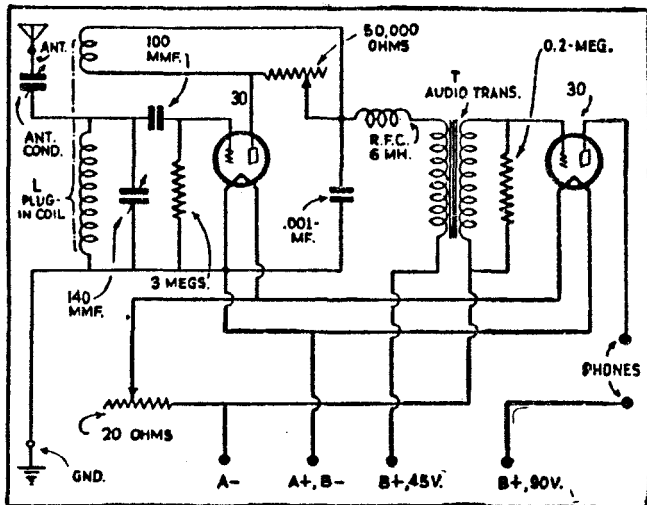
Regular broadcast reception is optional, by adding a set of two plug-in coils to cover 200-500 meters.

All of the parts are mounted on a wooden base-board measuring only 8x9 inches. The front panel is of hard rubber, 7x9 inches, and holds a vernier tuning dial, a regeneration control, and a filament control rheostat. All of the parts required are available in "kit" form, and the entire design and layout has been carefully planned so that the "DX-ER" may easily be assembled by anyone.

It is important to point out again that the plan layout of the apparatus shown be carefully adhered to. It is particularly desirable to keep the plug-in coil as far away from the other parts and the front panel as possible. Careful wiring will insure proper results.

Regeneration in the "DX-ER" is controlled by a 50,000 ohm variable resistor connected across the tickler leads. The output of the detector is transformer-coupled to the audio tube by a shielded transformer having a ratio of 1 to 5. A load resistor of 200,000 ohms is connected across the secondary of the audio transformer to eliminate any possibility of

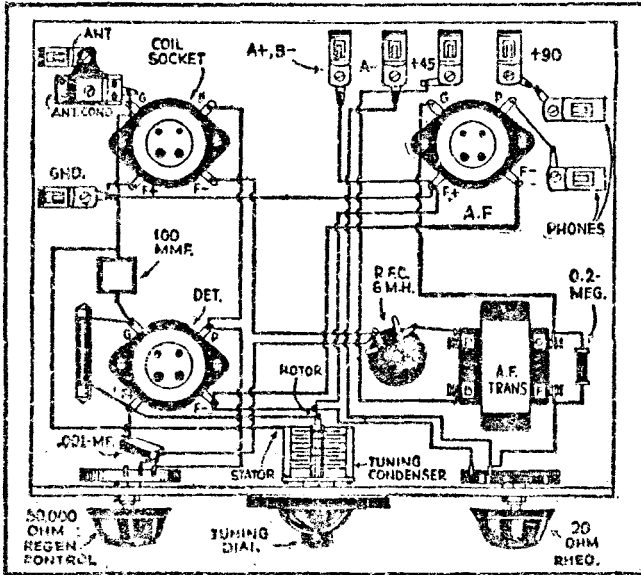
(Continued on page 175)



Simple and effective straight-forward hook-up used in the 2-tube short-wave "DX-ER"; two 2-volt tubes are used.

The 2-Tube Short-Wave "DX-ER"

(Continued from page 155)



The first of the four plug-in coils is a day-light reception "EX" coil, covering primarily both International "phone" broadcast and Amateur phone and code bands. This coil, as used in the set pictured in Fig. 3 is colored black. The second coil, which is brown in color, covers the International "broadcast" (phone) and Amateur night-time (phone

Plan view and wiring diagram at left for the S-W "DX-ER". Below—Rear view of the S-W "DX-ER".

"fringe howl". The audio stage is well-designed to give increased volume on all signals for headphone operation.

The antenna is coupled to the tuning coil by a semi-variable "postage-stamp" condenser having a maximum capacity of 80 muf.

Tuning is accomplished by a 140 muf. midget variable condenser mounted on the front panel. A smooth vernier type dial is used to insure proper tuning.

In operation, the antenna condenser is adjusted so that the detector tube will oscillate at all points on the tuning dial. The point of adjustment depends entirely upon the degree of absorption of the antenna circuit from the tuning circuit. It is well-worth mentioning here that a good aerial contributes inestimably to efficient short-wave reception, particularly for a set of this type. Both the aerial and lead-in should be well insulated and kept as far away from walls, roofs, etc., as possible.

It should be kept in mind also, that phone signals are loudest just below the oscillation point and C.W. signals just above the oscillation point. When tuning the "DX-ER" the regeneration control should be set to the point where the detector just starts to oscillate. Then, the tuning dial should be carefully manipulated until a "whistle" is heard. Careful tuning at this point and further adjustment of the regeneration control will bring in the intelligible signal. While there is nothing tricky about the operation of the "DX-ER" it is well to spend some time in learning how to tune it to derive maximum reception.

Parts List for "2-Tube DX-ER"

- 1—7x9 Drilled Hard-Rubber Panel.
- 3—4 prong Sockets.
- 1—140 muf. Midget Tuning Condenser.
- 1—20 ohm Rheostat.
- 1—50,000 ohm Regeneration Control.
- 1—1 to 5 ratio Shielded Audio Transformer.
- 1—Antenna Condenser. 80 muf. max.
- 1—Knight R.F. Choke.
- 1—.0001 mf. Knight Mica Condenser.
- 1—.001 mf. Knight Mica Condenser.
- 1—3 megohm Resistor.
- 1—200,000 ohm Knight Carbon Resistor.
- 8—Clips.
- 1—Baseboard.
- 1—Vernier Dial.
- 2—Knobs.
- 1—Kit of Screws, Nuts, Hardware, Wire, etc.
- 1—4-prong plug-in Coil Kit (4 coils).
- 2—30 Tubes, R.C.A. Radiotron (Arco.).
- 2—Dry Cells (1½ volts each).
- 2—Knight 45 volt "B" batteries.
- 1—Pair Headphones.

and code) bands. These are the very busy short-wave channels. The third coil is green in color, and covers particularly Amateur C.W. and phone bands as well as commercial stations. The fourth coil which is red, primarily tunes police (phone) broadcasts and Amateur C.W. and phone signals.

For maximum enjoyment, a good, sensitive pair of headphones should be used. Only two dry cells and two 45 volt "B" batteries are required for complete operation.

FROM SHORT WAVE CRAFT

JULY 1934

Airline Headset

A Special



Comfortable Headband
Easily Adjusted
Molded Bakelite Cases and Caps
Five-foot Cord

\$358

This excellent Headset is offered at a very reasonable price. Equal in sensitiveness and results to many phones selling at much higher prices. Light in weight and of substantially durable construction. Every detail has been worked out carefully and only the best materials are used. The workmanship is the best, and the result is a neat appearing, finely finished set. Army-Navy style headband is shaped to give most comfortable wearing with heavy working. Adjustment to fit the head is quick, simple and secure. No chance to pull the hair. Receiver cases and caps of genuine molded bakelite. Five-foot connecting cord with enclosed terminals. Equally suitable for use on the highest grade sets or the inexpensive crystal sets. Every set is made according to our highest specifications, just as if it were being made especially for you only. We guarantee these sets to satisfy you—they must satisfy you or we will gladly refund purchase price, together with transportation charges. **\$3.58**

2000 Ohms total resistance. Per set.....**\$3.58**
\$3 W 5188—2000 ohms total resistance. Per set.....**\$3.58**
\$3 W 5188—3000 ohms total resistance. Per set.....**4.18**

Postage, per set, 8¢ extra

Frost Radio Headset



\$358
2000 Ohms

\$358

The product of an old, reliable manufacturer. Has proved very satisfactory under a wide range of conditions. Very sensitive. Guaranteed high quality and accurate reliable service and satisfaction. Metals made of highest composition. Well covered headband, easily and quickly adjusted to the head. **\$3 W 5187**—Frost No. 1611. 2000 ohms. Aluminum shells, molded caps. **\$3.58**

\$3 W 5180—Frost No. 162. 2000 ohms. Per set... **\$4.48**
\$3 W 5181—Frost No. 172. 2000 ohms. Per set... **\$5.38**

Postage, per set, 8¢ extra

Brandes Matched Tone Headset



\$538
2000 Ohms

\$538

The amateur's choice. Famous for their excellent workmanship, durability and extreme sensitiveness. Recognized as the best at the price on the market. Receivers evenly matched to secure fine, even tone values that are distinctive and true. Comfortable, easily adjusted style. Army-Navy handband covered with writhing, will not catch hair. Fitted with 8-foot polarity inducting connecting cord. **\$3 W 5380**—Superior type 2000 ohms total resistance. Per set... **\$5.38**

\$3 W 5381—Navy type; 3000 ohms total resistance. Per set... **6.98**

Postage, per set, 8¢ extra

Single Receiver Headset



\$246

\$246

A high grade single receiver mounted on a leather covered spring headband. Resistance, 1000 ohms. Especially designed for radio use and very satisfactory where a low priced, sensitive receiver is desired for use in connection with the inexpensive crystal detector receiving sets. Has 3-foot connecting cord. **\$3 W 5383**—Per set... **\$2.46**

Postage, per set, 8¢ extra

Watch Case Receiver

Regulation quality case type telephone receiver. Molded, suspension case. Bipolar. Resistance, 75 ohms **\$3 W 5384**..... **\$1.10**

Postage, 6¢ extra

Patent Multi-Jack

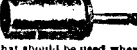


\$2.46

A handy device that permits you to use as many as three headsets or two headsets and a loudspeaker at the same time. Can be attached to cabinet or edge of table. Arranged to take up to three plugs in series. Putting on one plug leaves the others still connected. Every radio set should be equipped with one of these Multi-Jacks for convenience sake. **\$3 W 6794**..... **92¢**

Postage, 4¢ extra

Two-Cord Radio Plug



\$1.10

With this Plug you can connect two headsets or a headset and one loudspeaker to any radio jack. A very handy device that should be used wherever there is a radio set. **\$3 W 6792**..... **66¢**

Postage, 3¢ extra

Reliable Murdock Headset



\$355
2000 Ohms

\$355

This nationally advertised Headset has been prominent in the radio world for many years. Substantially built with molded shells and solid, high grade permanent receiver. Each receiver is carefully tested for true quality. We recommend this receiver as one of the best values on the market. Headband is equally durable writhing and is designed to fit the head comfortably. This Headset will bring in the faint signals that less sensitive receivers will not receive. Fitted with five-foot cord. **\$3 W 5182**—2000 ohms total resistance. Per set... **\$3.58**
\$3 W 5183—3000 ohms total resistance. Per set.....**\$3.00**

Postage, per set, 8¢ extra

Baldwin Amplifying Type "C" Headset



\$11.75
Complete With Radio Plug


\$11.75

This is probably the most famous radio receiver. Entirely different construction than any other on the market. It is fitted with special mica diaphragm, actuated by a very thin, light armature which is super-sensitive to the slightest variation of current passing through the electric circuit. This special type of construction enables signals to be heard which are not audible in the ordinary headset. The high efficiency has caused it to be used by the U. S. Navy and War Department, by many foreign governments, and by various private operators all over the world. The shell containing the mechanism is of molded bakelite. Comfortable web covered headband with firm, quick adjustment. Six-foot connecting cord fitted with universal plug to connect to any radio jack. **\$11.75**

\$3 W 5184—Per set.....**\$11.75**

Postage, per set, 8¢ extra

Radio Adapter Plug




\$2.46

Fit any radio jack and permits use of two radio plugs. Plugs are to be inserted in end of Adapter Plug. Make possible the use of two headsets or a headset and loudspeaker. A very handy device. **\$3 W 6791**..... **92¢**

Postage, 4¢ extra

Patent Duo-Jack



\$2.46

If your set has binding posts instead of jacks, you need this Duo-Jack. Fits under head of binding posts and has holes in opposite ends into which two radio plugs may be inserted. Lugs which fit under binding posts are adjustable in width. **\$3 W 6790**..... **92¢**

Postage, 4¢ extra

Receiver Cord



\$4.94

Don't take chances with an old frayed Receiver Cord that may spoil an evening's pleasure. Order one of these heavy construction headsets cords. Five feet long. For use with any standard double headset. **\$3 W 6388**—For double headset..... **4.94**
\$3 W 6380—For single headset or loudspeakers..... **3.46**

Postage, 3¢ extra

FROM A 1923 MONTGOMERY WARD
 RADIO EQUIPMENT CATALOG —
 CONTRIBUTED BY WOODY WOODRUFF

Ole!

12/50

It's difficult to think in terms of "OLE", when the weather is sooo cold, but still a few goodies seem to trickle thru the icy curtain and find their way into the clutches of MWVRS people. The following is a sampling of last month's harvest; sorry no freebies came to light, at least none were brought to the attention of your reporter.

Bill DeVey took on a Hallicrafters-S-X 24, which appeared at the last meet. Should make a nice addition to his stuff.

Ed Buhite got one of the "FurnitureFancies" in the form of a General Motors, radio-phono combinations in a Victorian "Queen Anne" cabinet. Mod. 160-A 1929.

Jim Mason found an electric light bulb with a vintage tit on the end, and a coiled filament which he says is a very effective "heater" for these cold nights and an Angelus cathedral (6 tube screen grid).

Another Grebe Synchronphase showed up in Bob Campbell's stuff, which he says he'll trade for items more to his taste. Call him for details. He also got a nice little item in a horn speaker driver made in Seattle, it is called a "Selector". Maybe he would like to hear from someone who has the horn for this unit?

Don Iverson found a Federal Jr. crystal set, and an unmarked crystal set undoubtedly a manufactured item to enrich his crystal set shelf.

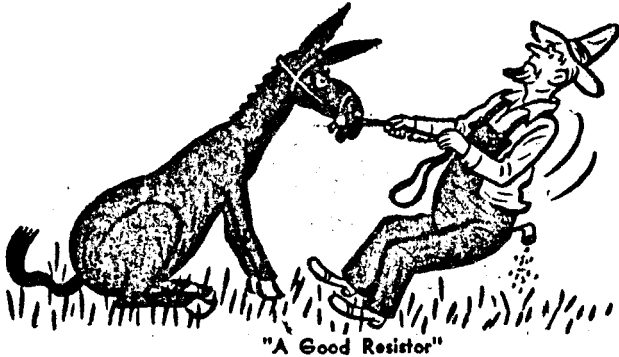
Joe Tompkins nabbed a Thermodyne trf battery job in good shape and a home-brew early super-heterodyne type of set which he says he may attempt to restore.

To all Associate Members: This column is for you too! Send your "brag" items to Tom James, 5024 SE Clay St., Portland, Or. 97215. We'd like to hear from you.

CARTOON CLIPPINGS



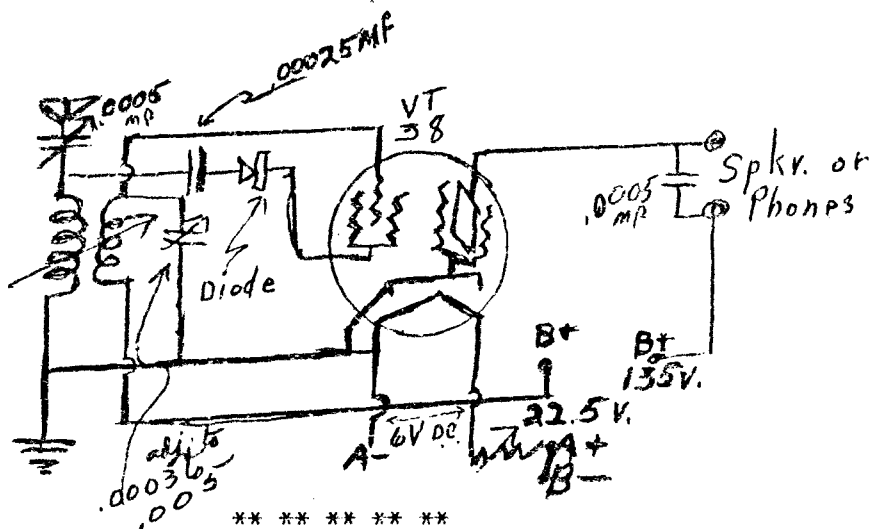
RADIO TERM ILLUSTRATED



I Q Primer...

by THE PROF.

Do you think that the following circuit is functional as a receiver as shown? If so, what sort of circuit do you think it is? This is drawn freehand and is not intended as a work of art.



*** ** ** ** **

The first error in the paragraph last month was:
In 1901, Marconi.....using a triode detector.... (should read using a coherer).

The second error was: Then in 1907, Dr. Lee DeForest (Amer.) invented the Superheterodyne.....(should read; "invented the triode".) It is well known to almost every radio buff, that Armstrong was the papa of the super in 1918, although others had a similar idea during this era.

*** ** ** ** **

The Mish-Math

The series-Parallel "caps", I perceive,
Have values designed to deceive----
So I grab my computer
(Without benefit of tutor)
And get answers you wouldn't believe!

tj/80

SWAP SHOP

COMPILED
BY BILL DEVEY

WANTED: Original speaker, output transf.,
knobs, dial lamp cover for a
Crosley Dual 60 Lowboy - Chassis
6V2;
Eber Cude, 901 N. 5th St.,
McAllen, Texas, 78501

** ** ** ** **

FOR SALE Riders repair manuals, Vol's. 8
or TRADE: thru 15 in good shape, \$40.00 or
trade for comparable value vintage
radio literature such as Radio
Craft, Radio News, Short Wave
Craft, etc. ;
Bill De Vey, Ph: 635-6746

** ** ** ** **

WANTED: Old tubes, crystal sets, ham gear,
QSTs from 1916 - 1924;
Dick Howard, 9999 S.E. Frenchacres
Dr., Portland, 97226, Ph: 775-6697

FOR SALE: A.K. large Model 20, \$85.00 w/o
tubes, \$100.00 complete. A.K.
model 33, \$55.00 w/o tubes.
Dick Howard.

** ** ** ** **

TRADE: Grebe MU-1 for ? ? ?
Bob Campbell, 2175 S.E. Pine,
Hillsboro, Or. 97123, Ph: 648-7331