

Vol. 3

No. 9



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# CALL LETTER

## LEONARD FULLER, LOCAL BOY, NOW LEADER IN RADIO

(Clipping from Oregon Historical Scrapbook 71,  
pg. 181, dated 1919)

By Art Redman

The Pacific Coast is the destined leader in radio matters. "Most of the credit for this is due to Leonard Fuller, son of F. I. Fuller, vice president of the Portland Railway, Light and Power Company, because of him having invented the arc sets used by the Navy Department in long range transmission." Thus says Nathan A. Bowers Pacific Coast editor of 12 McGraw Hill engineering publications of San Francisco.

The wonders and the possibilities of the radio game have been closely followed by Bowers since its earliest infancy. In his den, Bowers has a radio set which he rigged up himself, over which he can hear telephone conversations between Annapolis and Paris. The fact that San Francisco overheard Portland Forest Service officials trying out their wireless telephone sets is not surprising to Bowers. Bowers has had his wireless equipment for years but during the war it was out of commission. Twenty minutes after peace was declared, however, radio enthusiasts had their equipment again in place.

"It is true that the big electrical companies are located in the east, but it was San Francisco which developed the vacuum valve which is one of the most useful elements of radio equipment used during the

the war", said Bowers. During the war 50,000 of these valves were manufactured daily in San Francisco. At present the valve is sold by the Marconi Company but is still being manufactured in the Bay City. Under a contract the Marconi people agreed to buy 50,000 valves a month.

This months Journal of Electricity is dedicated to Leonard Fuller for his important part in radio progress as one of the "builders of the west". Fuller's sets are now being installed in Bordeaux and Annapolis 1000KW arc sets. It is now possible to talk one-half way around the world by radio waves which travel with the speed of light. Because of the high power of the arc sets now in use, Secretary Daniels of the Navy can talk with his battleships anywhere in the world.

"Although the west has taken the lead in radio progress, money for further projects must come from the east", says Bowers. "This can be done through the press and especially through the technical and engineering publications".

## Portland Radio Supply Co.

1300 WEST BURNSIDE STREET

Portland, Oregon

Phone BEacon 5389

**WHOLESALE RADIO PARTS**

**Tung-Sol Tubes**

**Standard Parts**

## CALL LETTER

The Call Letter is a monthly publication of the Northwest Vintage Radio Society which meets the second Saturday of each month at the Buena Vista Club House, Sixteenth and Jackson Streets, Oregon City, Oregon.

Editor ..... **Bob Hay**

Staff .. Tom James, Cathi Hay, Mark Moore

Address all correspondence regarding this publication to: The Call Letter, 5225 S.E. Brookside Drive, Portland; OR 97206.

# MARK'S MEMO

By Mark Moore

We have a couple of phone changes for all of you to correct on your membership lists this month. Doug Eggert of Aloha has a new one and it is 649-2057. Also Pat and Anna Stewart of Wall Walla noted that their number is 509-525-1699. We were really glad to see Pat and Anna at our Forest Grove show. Another member from eastern Washington, Ben Murphy, retired chief engineer from KIT radio in Yakima, also made it to the show. Some of the extra effort that our out of town members make to come to shows or swap meets certainly adds a bit of excitement to the get-togethers.

A note of thanks is due to Brent Dingman for his ideas and encouragement. He sent for our review the judging and appraisal forms that he uses. Brent does make appraisals that may be used for insurance purposes. The fee is nominal and he will send a set of judging rules, definitions and classifications, score sheet and appraisal sheet for \$1.00. For more information write Historical Radio Services, Box 15370, Long Beach, California 90815. We also want to mention that Brent is the official representative for Philco radios. He has parts, schematics, tubes, etc. for Philco as well as others.

We welcome our newest member:

David Shanks  
115 Baldwin Street  
Bloomfield, New Jersey 07003

The vacation bug has hit me and I'll be gone till after Labor day. Hope to see you at the next meeting September 10th.

## MAKING A SET SELECTIVE

Advertisement in RADIO News for December informs us that we can get a "30H, 50MA, Raytheon FILER, \$1.75." Cheap at double the price; this is evidently the kind of attachment that you put on the receiver to sharpen the tuning. But just how do we hook it up? Diagram, please.

THERE'S GOING TO BE SOME SHARP TUNING!



Contributed by F. L. Erickson



# ATMOSPHERICA

By J

## SHOW AND TELL

Mall-205 was number one;  
A success in many ways.  
Beaverton-Mall was number two;  
We found a committee pays!

Forest Grove, at the auto show,  
We next displayed our wares.  
A host of folks looked at our GEMS,  
And we developed proper airs.

Washington Square beckoned next,  
As an attraction for their Mall.  
'Twas a great show-off I guess,  
Among the merchants, wall-to-wall.

Recently the OMSI\* man  
Called us around to show  
What "MODERN" radio folks had used,  
Up to fifty years ago.

Now once more at Forest Grove,  
Every Alan, Jim and Bobby --  
Pleased to know some folks at least  
Appreciate our hobby!

(\* Oregon Museum of Science and Industry)

\*\*\* \*\*

Our LUCY WYRE said her REGENERATIVE set had been altered so that now it's a NEUTRODYNE!

# OUR PEOPLE

By Bob and Cathi

At the August meeting we were privileged to have as a guest speaker Morgan McMahon of Vintage Radio Services. Morgan explained that we should think of ourselves as helping to preserve history when we save an old radio from the junk pile or from rotting in an old barn. He termed it our "search and rescue mission". Quite a few members bought some of the books Morgan and his wife Gladie brought with them. The McMahons also gave out iron-on transfers for T-shirts that say "Old Radios Turn Me On". An extra special thanks is in order for the McMahons for their efforts in behalf of club.

It was decided at the last meeting to hold the Fall swap meet in conjunction with Don Wirfs Flea Market at the Memorial Coliseum on October 23rd. Each seller can arrange for a table at the October meeting. Tables will cost \$5.00 per seller. There will be no other charges to the club since Don Wirfs will advertise for us and he of course rents the hall. This compares with the club putting out about \$100.00 for the last Canby swap meet. We'll have more information next month.

SPECIAL FINDS..... Don Iverson writes: I acquired the following, a 1922 Stienite crystal set, Aeriola Sr. with WD 11 tube, A Victor 5 tube battery set TRF, AK 20 compact, a cabinet and panel for an Eagle neutrodyne. Philco 20, a Majestic model 174, for which I need the drive mechanism for the auto-tuning. Tom James found a 1935 Philco console on his recent vacation. Andy Bell picked up some Sams, some Supreme circuit publications and lots of miscellaneous parts. Craig Hoaglin continues to vacuum up any radios that aren't nailed down on his travels around the Northwest. Craig recently found a beautiful Hallock and Watson (manufactured in Port. Ore.), several AK and Crosley Metal box radios, and a ARL300 crystal set and matching AA1400 Detector-Amplifier both manufactured by GE for RCA last patent date July 1915. Craig would like to hear from anyone that has information on these sets. Let's hear from some of the rest of you.

# POWER SUPPLY

By Cathi Hay

This month's recipe is from our own little Aunt Sammy, Dorothy James. Those of us who stayed for the July Indoor Picnic know how good these are and for those of you who couldn't stay why not make some and see for your self.

## "AUNT" DOROTHY'S GREEN TOMATO PICKLES

Wash and cut into thin slices:

1 peck green tomatoes (10 lbs)

Peel and cut into thin slices:

12 large onions

Sprinkle with:

1 cup salt

Permit them to stand for 12 hours. Wash them in clean water. Drain. Heat to the boiling point:

3 qt. Cider Vinegar

12 green peppers, sliced thin

6 sweet red peppers, diced

12 cloves garlic minced

4 lbs. brown sugar

Add the tomatoes and onions. Add and cook slowly until the tomatoes are transparent -- for about 1 hour:

2 Tbl. dry mustard

2 Tbl. whole cloves

2 Tbl. stick cinnamon, broken

2 Tbl. powdered ginger

1 Tbl. salt

1 Tbl celery seed

Stir these ingredients frequently. Place the pickles in sterilized jars and seal.

The Ladies Auxilary will resume their monthly meetings starting in September. For further information concerning the "Power Supply" contact Virginia Ranken, our Chairlady. All wives and/or girl friends are invited to become members.

# LETTERS

Make Offer--Trade, maybe, or Sell.

- 1-AK Model 10
- 1-AK Model 20 with AK Horn Speaker Type M
- 1-AK Model 33
- 1-Radiola Model 20 with Radiola 100 Speaker
- 1-Radiola Model 25 (no loop)
- 1-Day-Fan Model OEM-7, type no. 5106, serial 9206
- 1-Grebe Synchrophase
- 1-Grebe CR-8 with Rork 2 Stage Amplifier
- 1-Silvertone with speaker(no mod. or numbers, slant panel)
- 1-Metrodyne by Metro Elec. (7 tube)
- 1-Radiola Model 60 w/speaker
- 1-Graybar Model 311 w/speaker
- 1-National S.W. Model NC-57-B
- 1-Peerless Speaker in mahogany gothic cabinet
- QST Magazines, 1928 to 1936 in ARRL Binders  
(1930-31-32 not complete)
- 2-W.E. 2-button broadcast type carbon mikes
- 1-Remler Condenser Mike with floor stand and separate power supply.
- 1-W.E. 25-B Amplifier, (no cover)

Contact:

H. Ben Murphy  
209 S. 46th Avenue  
Yakima, Washington 98908  
966-5466

Hello,

I just wanted to make a short comment on radio displays. At the present time there seems to be a small group of people doing all the work, of bringing radios to these shows. I'm not going to mention names but you know who you are and I thank you very much for all your efforts. This small group consists of a maximum of twenty people. There are far more than twenty active people in the local area of Portland and I, with the others of this small group would be greatly pleased to see some of these other people expand this small group to make it quite a bit larger. As it is now, a few people bring quite a large number of radios to make a decent display. (con't next pg.)

It would be nice to see a large number of people bring a few radios to make the same display. There are a lot of people voting for displays who never bother to help. Please, we of the small group are getting bored by seeing the same old radios over and over again. Let's see some of the other radios from the non-participating people in a show. I know for a fact that several people when displaying, are given tips about radios and are able to pick up some nice items at not too bad a price.

By the way, I would like to thank Pat and Anna Stewart from Walla Walla, Washington for driving down to Portland for the Concours Display July 31st and displaying radios. That's a long drive down and back in one day.

If at any time anyone has any questions about a display please call me. 282-6110

Andy Bell  
Display Chairman

#### A TECHNICAL TIP (taken from Popular Mechanics)

##### REMOVING VARNISH

A good and easy way to remove varnish from old furniture is to wash the surface thoroughly with 95-percent alcohol. This dissolves the varnish and the wood can then be cleaned with a strong solution of soap, or weak lye. If lye is used, it should be washed off quickly and the wood dried with flannel cloth. When the wood is thoroughly dry till take a fine finish.

#### FOR YOUR MEMORY BANKS.....

Did you know in 1935 the Waldorf-Astoria Hotel had an all wave radio receiver to serve the 2,200 suites. Each suite had a loud speaker and a dial box. A guest could dial up a local or foreign station or even a phonograph record at will.

Did you know that in 1935 Atwater-Kent manufactured a radio that had a time control which turned the radio off and on and tuned in different stations according to a pre-selected schedule. It was called Tune-0-Matic.

# ATWATER KENT

submitted by: Craig Hoaglin

## PRODUCTION DATES OF EARLY ATWATER-KENT SETS

Listed below are dates which actual production started on early Atwater-Kent receivers and components. Some of the units are "strangers" to collectors (at least to us) while others are disguised by a part number. (Info from Frank Atlee)

Date	Part No.	Model and description
5-26-22	3590	Det. plus 2 stage amp. in wooden cabinet
11-23-22	3925	Tuner, detector and amplifier
11-27-22	3945	Tuner, detector and 2 stage amplifier
12- 2-22	3955	Tuner, detector unit and 2 stage amplifier
12- 4-22	3960	Same
12-23-22	3975	Vario-coupler, variometer, detector and 2 stage amplifier
1-24-23	4066	Single cir. tuner, 2 RF trans., 2 tube units (det. & 2 stage amp.)
1-17-23	4052	Tuner, pot., 2 RF trans., 2 tube units (supplied from 4275)
3-15-23	4120	Single circuit tuner, RF trans., tube unit, det. unit
4-30-23	4205	Same as 4066 (4135 tube unit for use with $\frac{1}{4}$ amp. tubes ?)
5- 8-23	4207	Same as 4066 (Cabinet board)
5-15-23	4220	Model 15 cabinet receiver (4066)
6-5-23	4275	Single cir. tuner, Pot., 2 RF trans., tube unit (1) det. & amp.
9-7-23	4325	Model 8 Duplex
9-7-23	4333	Single circuit tuner, det. and 2 stage amp.
9-7-23	4340	Model 10 set (plain gray)
10- 9-23	4445	Model 9 (cable type) 2 tuners (5 tubes)
11- 1-23	4450	Model 9 in 4217 console with cable
11- 9-23	4490	Model 10 in 4427 cabinet with cable
12-14-23	4535	Model 9 in cabinet with cable
12-14-23	4540	Model 10 in console with cable
12-14-23	4550	Model 10 in brown finish, cable
1- 31-24	4560	Model 10 in black finish, cable
2-16-24	4590	Model 10 on Pooley board
2-22-24	4600	Model 10 brown finish
2-28-24	4610	Model 10-B in 4217 console
3- 3-24	4620	Model 12 six tube set
4-18-24	4660	Model 9 "C" set, 2 var. condensers and 2 RF trans.
4-30-24	4640	Model 20 set in cabinet (large)
5- 6-24	4650	Model 10-B brown set in 4427 cabinet
5-29-24	4700	Model 10-C set
7-23-24	4910	Model 12 set (early type)
7- 7-24	4880	Model 19 set
7-23-24	4920	Model 20 Deluxe
7-29-24	4930	Model 22 six tube cabinet set
8-25-24	4950	Model 10 Pooley set
3- 2-25	7570	Model 20 compact
6-17-25	7780	Model 21 dry cell type
7-30-25	7800	7780 set with 7790 dry cell container
11-18-25	7950	Model 30 set (one rheostat)
11-22-25	8000	Model 30 set (two rheostats)
1-15-26	8100	Model 35 set (metal cabinet)
5-15-26	8270	Model 32 set (seven tubes)
11-12-26	8100A	Model 35-A
11-12-26	8000A	Model 30-A
11-22-26	8450	Model 25 set (?)
1-10-27	8500	Model 50 set
3-16-27	8820	Model 50 console set
5-11-27	8930	Model 33 set
5-24-27	9040	Model 30 console set
5-24-27	9050	Model 33 console set
6-29-27	9090	Model 51 set (?)

# RADIO STATIC

By Glenn  
Gonshorowski

ALL THE WORDS BELOW ARE NAMES OF RADIOS.  
THE LETTERS OF EACH NAME ARE SCRAMBLED  
UP TO CONFUSE YOU, YOUR JOB IS TO REARRANGE  
THEM INTO CORRECT ORDER. ANSWER NEXT  
MONTH.

SEEPLERS

-----

BRRAAGY

-----

OLVES IRNET

-----

NATDYO

-----

TZNIEH

-----

WRENTAKTAET

-----

ANSWER TO LAST MONTHS  
RADIO STATIC PUZZLE

AAFD

SWIGN

BXDNEI

LIONCAR

HICAIERF

LIAFGLINL

FADA

WINGS

BENDIX

CLARION

AIRCHIEF

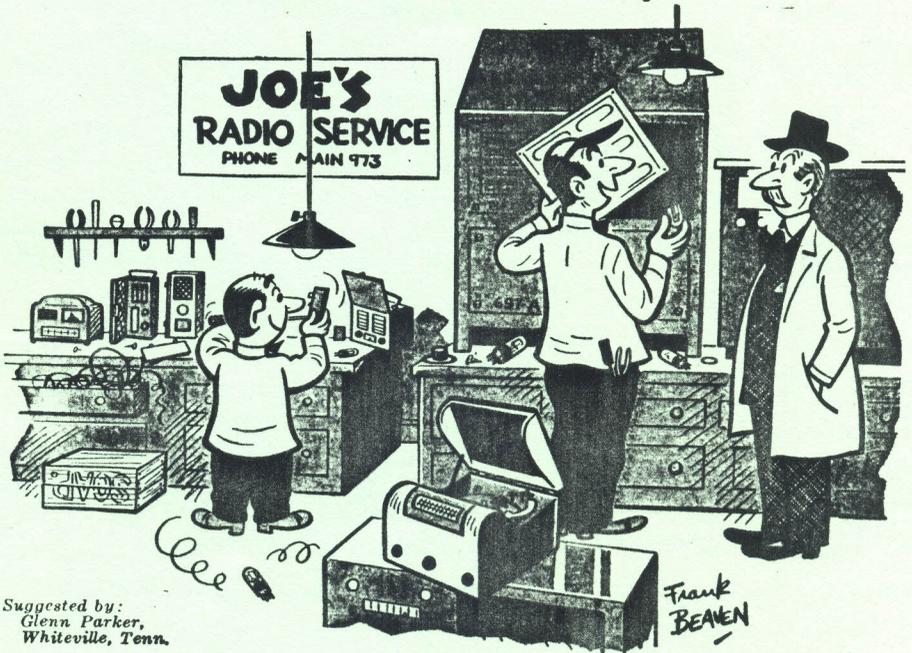
GILFILLAN

# CARTOON CLIPPINGS

By Art Redman



"My husband is a bug on shortwave listening."



Suggested by:  
Glenn Parker,  
Whiteville, Tenn.

"He services all the midget sets."

# EDITORIAL COMMENT

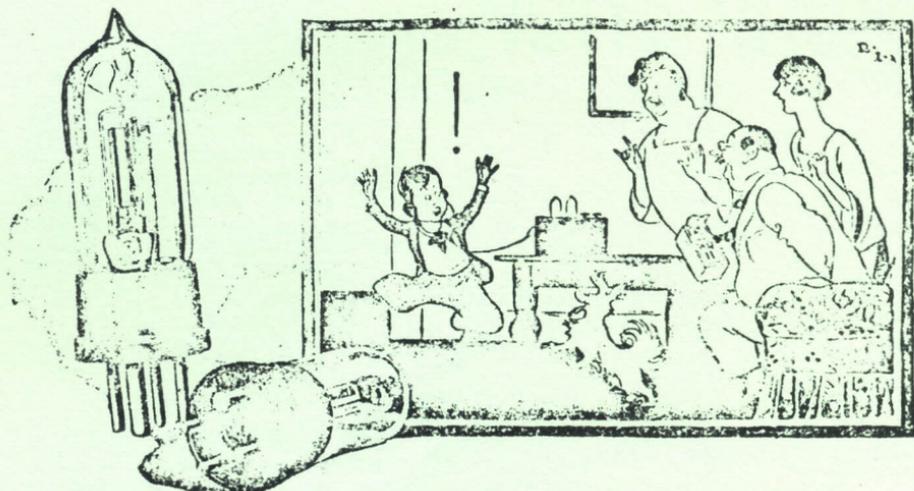
As Morgan McMahon pointed out at our last meeting the popularity of radio collecting is increasing by leaps and bounds. Morgan estimates there are now over five thousand collectors in the USA and may be a quarter million by the year two thousand. It seems the hobby has grown to the point that the terminology, values of radios, resource materials, and much more should be compiled and standardized by an inter-club standards committee. This committee should be made up of members of all the vintage radio clubs.

This group could define what a vintage radio is; what a classic radio is; what an antique radio is if such an animal exists. Once this was completed us Northwest Vintage Radio guys might even be able to communicate with those Southwest Vintage Radio guys. The inter-club committee could compile information like how many AK 10's there are in collectors hands. This in turn could help us all in identifying the rarity of a radio.

One of my goals for the Call Letter is to pass on some technical information for those who are interested in repairing vintage radios. On the other hand I hope to have much more for those who are not technically inclined, but are interested in the artistic values of vintage radios. This seems to be an area where resource information is very scarce. If anyone has any old magazine articles or other material concerning the artistic side of our hobby I would appreciate hearing from you and I think a majority of the members would also.

My thanks to those who contributed to this issue, including: Cathi, Tom and Dorothy James, Mark Moore, Art Redman, Craig Hoaglin, Andy Bell, Bob Campbell, and Glenn Gonshorowski. We also received some material on an early Browning-Drake set from Joe Tompkins but ran into trouble in trying to reduce it for printing without losing clarity. Sorry Joe.

Bob Hay, Editor



# Radiotrons WD-11 and WD-12 *Made History!*

It isn't a genuine WD-11 unless it's a Radiotron.  
It isn't a genuine WD-12 unless it's a Radiotron.  
It isn't a genuine UV-199 unless it's a Radiotron.  
It isn't a genuine UV-200 unless it's a Radiotron.  
It isn't a genuine UV-201-a unless it's a Radiotron.

#### You Can Change Your Set to Dry Battery Operation.

If your radio set is equipped with navy type tube sockets, you can change to dry battery operation by inserting WD-12 Radiotrons. Ask your dealer for information as to how this can be done.

These are dry cell tubes—the tubes that made possible the swift progress of radio in the home everywhere. They meant clear tone—undistorted detection—radio and audio amplification—and volume reproduction—all with dry batteries. They meant radio in the city—on the farm—off in camp—everywhere!

And to-day, there are millions of these popular Radiotrons in use. Everybody

knows them familiarly as "WD-11's" and "WD-12's." But they are not genuine unless they are RADIO-TRONS.

Always be sure to look for that mark on the base, and for the RCA mark on the glass. It's important, whether you are buying a new set with the Radiotrons in it, or buying new Radiotrons to replace old ones. Then you have the genuine—sure to live longest—serve best.

#### Radio Corporation of America

Sales Offices

233 Broadway  
New York

Suite No. 359, 10 So. LaSalle Street  
Chicago, Ill.

433 California Street  
San Francisco, Cal.



This symbol of quality is your protection

# Radiotron

REG. U. S. PAT. OFF.

# SWAP SHOP

- WANTED: Spartan 620-A Cabinet  
Doug Eggert  
649-2057
- WANTED: Cabinet for Crosley 124 Superhet  
Ed Charman  
654-7387
- WANTED: To Restore -- Hallicrafters SX-101 or  
SX-62  
Frank Plaisted, Jr.  
647-2891
- WANTED: Crosley Model 53 chasis; interested in  
any 1920's, 1930's radio magazines or books.  
Bob Hay  
(503) 659-8566
- FOR SALE: Victor Model RE 45, 1929 Radio & Electrola  
in almost perfect condition, Make Offer.  
Mrs. Robert Fetherston  
Rt. 1 Box 92  
Dutter, Oregon 97021  
(503) 467-2657 Ref: Andy Bell
- FOR SALE: Majestic Model 996  
Mrs. Michelson  
(503) 232-0923 Ref: Andy Bell
- FOR SALE: Large Victor Electrola/Radio Cabinet  
No insides. Double doors on front, right  
door in two sections. 4' high 4' long 2½'  
deep. Oak, approx. 1927, orig unit cost  
approx \$1,500.00  
Andy Bell  
4534 N.E. 25th  
Portland, Oregon 97211  
(503) 282-6110

**Atwater Kent.** Noisy wire wound volume controls. Clean contact arm and winding with alcohol. Using No. 1 soft lead pencil, fill in spaces between windings at contact edge until surface appears level and smooth.—Radio Retailing

**AK 30, 40.** A common headache is shorting of the wire-wound resistor beneath the chassis to ground. The fibre base warps, causing the trouble, which can be corrected by sliding a piece of fibre under the unit. No reception: Check the speaker filter condenser.—Radio Retailing

**AK 37 to 60.** When dial belts are not obtainable use heavy dial cable. Anchor to pulley-pins, spot with drop of solder. Move condenser to take up slack.—Radio Retailing

**AK 37.** Found to tune broadly in the lower end of the dial. The situation stood thus: no trimmer condenser, tuning condensers lined up as perfectly as possible, but interference bad. In the grid circuit of the 2nd and 3rd R. F. tubes are 800 ohm resistances, which if cut down perhaps half, produces a certain amount of oscillation in that part of the wave band. This gives greater selectivity and solves the problem.—F. G. Hedge, Los Angeles, Calif.

**AK 37, 38, 40, 42.** Use of a 1 mfd., 400 volt condenser between the filament of the 280 where it connects to the first choke and ground increases pep and reduces hum. Try it next time it is necessary to rip open one of the cans.—Radio Retailing

**AK 37, 38, 40, 42, 46.** Fading is often caused by a fluctuation of the filament current supplied to the 26 tubes. There are two terminal boards, in the power supply box, which are held down by nuts. The nuts on the top board may be tight while those on the lower board may be loose. This is possibly caused by the brass bolts stretching. In any case tightening these nuts will usually correct this difficulty. In these same models occasionally the volume control will "peak" at other than the position of maximum volume. The antenna transformer, which is located just under the tuning condenser, will usually be found to have the section which is connected across the volume control shorted. A new transformer remedies this trouble.—D. N. Simpson, 137 S. State St., Marion, Ohio.

**AK 37.** Intermittent reception and rasping. Press rear of chassis. If this causes noise insulate shielded antenna cable leading from rear of metal cabinet to front of chassis. It frequently touches the bare ends of the power cable.—Radio Retailing

**AK 37-60.** New, double-spring contact arms are available at the factory and make it unnecessary to change entire volume controls unless the wire is shot. Clean the winding with alcohol.—Radio Retailing

**AK 40.** When biasing resistor strip under terminal board is defective and original replacements can not be obtained use one 750 and one 3,500-ohm type.—Radio Retailing

**AK 55.** A common cause of poor tone is a change in either of the two resistors shunting the speaker field. The resistors supply the C bias to the power tubes.—Geo. V. Sangree, 1522 Vernon St., Harrisburg, Pa.

**AK 55, 60.** Fading can often be traced to loose rivets on wire-wound resistors. In most cases re-clamping them with pliers effects a repair. Check particularly bleeder No. 1, R.F. bias and 1st A.F. bias units, as these work loose more often than other units at the rivets.—Radio Retailing