

Radio History

# Dawn of Another New Era In Radio Reception Is Seen In Announcement of Six Tube Batteryless Receivers: Eliminator Is Proclaimed "Wonder Box of Radio"

# Chicagoan's Letter Wins First Prize In Crosley Contest

Tunes in Baltimore During Day Time When Many Local Stations Are Broadcasting.

The letter that won first prize in the recent "Spend An Evening With the Crosley 5-50" contest for Archie Oboler, of 5513 Drexel avenue, Chicago, Ills., follows:

"At last everything was completed. The aerial was up, the batteries connected and the tubes were all in their sockets. The family was grouped around the new Crosley 5-50 eager to see what the new set was going to do. Personally, as I took the rheostat knob in my hand and started to turn it, I was, for two good reasons, in doubt as to whether the results would be satisfactory or not.

"In the first place, operating conditions were just about passingly fair. The aerial, because of conditions on the roof, consisted of little more than a 40 foot lead-in. Furthermore, the building we were in was set back just a short way from a busy street car line and I could if anything, pick up a lot of car noises.

"Secondly, the people to whom I was demonstrating the 5-50 had already received a demonstration on another nationally known radio, with which they had been able to pick a few of the larger distant stations right through the barrage of Chicago's twenty odd locals. Consequently the family was not altogether 'green' as to what to expect from a good radio, although they admitted the distant signals on the first receiver had been extremely weak.

"In spite of any actual and psychological difficulties such as the ones I had overcome, I had one point in my favor and that was the fact that I was demonstrating a Crosley-made radio. With this thought in mind I turned on the don I was able to increase the vol- does not have to depend upon the good. masters bidding.

a station at random on the dial. remarked about the beautiful, life-With a slight turn of the Crescen-

SHOW THIS TO YOUR PROSPECTIVE CUSTOMERS "426 Sunset Road. "West Reading, Pa. "Gentlemen :

"I noted your advertisement in Popular Radio, issue of February, 1927. The statement of Mr. X. — is certainly correct. I have a similar set, the Crosley 5-50, single drum control. I have G5 stations logged on the paper strip and have not enough room on it to write the rest of them. Last evening I tuned in Miami, Fla., and Baltimore, both working on the air at the same time. Miami has a power of 1000 Watts, and Baltimore 5000 Watts. There is but a separation of two meters between them, Miami is on 247.7 meters and Baltimore on 245.8 meters. I was able to detune Baltimore completely and bring in Miami with a volume that was astonishing. The incredulous may ask how it was done on a one control radio. I want to say that a Crosley will do it, and other things that will astonish them. The trick was done by a slight adjustment of one "Acuminator" combined with the "Crescendon" and an increase of filament current in order to pull in the more distant and less powerful station.

"KFI, Los Angeles, Califòrnia. and other west coast stations have been logegd repeatedly by myself and others owning Crosleys in this vicinity and if that isn't real radio performance. I would hate to own any other kind of a set.

"I have for several years built and experimented with many radio sets, but when a friend of mine demonstrated his Crosley 5-50, I laid down my tools for I had the set I had been waiting for.

"Yours in appreciation, "Henry J. Wagner."

rhought in mind I turned on the une of the music two-fold. It was service of storage batteries that "One of the important advantages troy from 0 to 100. The first re- about 5:30 by that time and the seem to be run down at every psy- of this rectifier unit is the fact The 5-50 seems to throb under one's casting dinner music. In order to fingers, alive and eager to do its get some idea of the relative logging asters bidding. "Then I went ahead and tuned in play, while the people listening all and the curtains.

(Continued on Page 3)

Summary of Achievements Incorporated in Six Tube Sets and Eliminator Designed for Use With Them Only.

Receivers Called "World's Greatest Radios".

### Many Exclusive Features Incorporated In Battery Eliminator are Described by Engineer-Listeners to Welcome Sets.

By producing results that have actually amazed the most critical radio engineers, the new six tube batteryless Crosley A C-7 and A C-7-2 have earned for themselves the titles bestowed upon them by those who had the first opportunity of testing them—"The World's Greatest Radios."

Not only is the circuit an exceptionally efficient one, but the battery eliminator, which provides "A", "B" and "C" current, is so wonderful that it has been referred to by "men who know" as the "Wonder Box of Radio." And so we have "the world's greatest radio and the wonder box of radio"-two units that are destined to bring about a new era in radio reception.

These sets themselves consist of three stages of radio frequency mplification, detector and two stages of audio frequency, a circuit of unusual efficiency which provides excellent reception from stations at very great distances. The cab-|110 volt, 60 cycle lighting or power inets are of mahogany, beautifully circuits, and is the result of months finished in two tones, and the A C- and months of research work con-7-C is installed in a very attractive- ducted in the Crosley laboratories ly designed console in which there under the direct supervision of is a genuine Crosley Musicone built Charles Kilgour, chief engineer. in. The single dial control, power "Chid," as Mr. Kilgour is known tube adaptability, metal shielded among his friends, has this to say chassis, Crescendon, etc.. are fea- about this unit: tures that combine to make the sets "It makes batteries entirely unwhat they are-"The World's Great- necessary as the unit furnishes

est Radios"-but these advantages, power for the filament circuits. important as they are, are common-plate circuits and grid circuits. place when compared with the ex-thereby replacing the 'A,' 'B' and traordinary results given by the C batteries. The eliminator makes Crosley battery eliminator-the use of units that have no depre-"Wonder Box of Radio"-which was ciation and which require no atdesigned and built for use with tention or servicing. The only posthem exclusively and which, by the sible exception to this is the recway, is not intended for use with tifier tube, which has a long life. any other type of radio receiver.

"The filter circuit is of novel de-This eliminator gives all the "A", sign and is not only very success-"B" and "C" current required in ful in eliminating the hum due to perfect operation of the sets. Im- the 60 cycle alternating current agine the joys of your customers supply, but is so arranged that when you show them such a beauit- common coupling between the plate ful radio that is operated without circuits of the various tubes of the batteries. Imagine how they will receiving set is made extremely appreciate a radio that can be re- low so that the quality obtained lied upon at all times—a radio that from the receiver is exceptionally

mark of the lady of the house was sky was just growing dark so I chological moment. Imagine how that Mershon condensers are used a very significant one, I thought hazarded a guess that the station the housewife will smile when she in the filter. These condensers Why that radio seems to be really to which we were listening was realizes the opportunity of doing make available very high capacities. away with the batteries that are much greater than can be economso bunglesome about the house and ically obtained from the use of which so often damage the carpets paper condensers and have an auded advantage which is very im-The Crosley battery eliminator portant, that if for any reason high is designed to operate on ordinary

(Continued on Page 3)

THE **CROSLEY RADIO** BROADCASTER

Published By The Crosley Radio Corporation, Manufacturers of Radio Apparatus Colerain and Sassafras Streets, Cincinnati. Ohio

Telephone: Kirby 3200 Robert F. Stayman, Editor Crosley manufactures radio receiv- nouncement came. 'WBAL,' a voice ing sets which are licensed under said, 'broadcasting from Baltimore, Armstrong U. S. Patent No. 1,113,149 Maryland.' Imagine the excitement and under patent applications of the this announcement created among Radio Frequency Laboratories, Inc. us. Daylight outside; locals going

#### SPRING TONIC

days when, at about this season of in the Windy City a set has to be the year, Mother would dig deep more than good even to separate into the medicine chest and get out the locals. the Spring Tonic. It made us feel "After tuning in a few more disbetter, didn't it? Put pep and en- tant stations, most of which came ergy into us.

And remember now Power Crost ley, Jr., just a few weeks ago, gave to every authorized dealer a similar enthusiastic family. With but a tonic in the form of rew six tube few instructions they could tune radios, including those radically the 5-50 as well as I could. Sale? different batteryless models?

us. Powel Crosley, Jr., knew what less than a machine gun. was good for you. Facing a luli af- "After five years of one radio ter the busiest of all seasons, radio after another, it is hard for ter the busiest of all seasons, radio dealers were more or less inclined to let Spring fever get the best of them. But when the new models them. But when the new models sible and so I am as enthusiastic were announced, radios that were over the 5-50 as I was over my first certain to meet nation-wide approv- set. The beauty about the Crosley al, every dealer sprang to his feet to me is its honesty. Its shielding and immediately felt the results of is used, not to facilitate manufacthe Crosley tonic.

mediately after announcement was made of the new sets, dealers ev-erywhere reporting having received radiates efficiency. In other words inquiries from their customers re- 'It's a Crosley'." garding the new Crosley models. The letter that won second prize Dealers recognized at once an op- for Howard Graff, of New Haven, portunity to bring back their sales Conn., will be published in the next curve to the December peak, and issue of the Broadcaster. they appreciated it. They welcomed the new line as they formerly wel- SKIPPER ON SHIP IN MIDcomed the Spring Tonic-and it had the same results. It put new life and new energy into them and made them feel like getting out and plowed by more or less storm-proof selling instead of taking their morn-steel steamers, a typhoon used to be ing and afternoon naps in the rear the occasion for reefing the canvas of their store.

## BOOST THE MUSICONE

The Crosley Musicones are the best reproducers on the market. tenna might blow down and that You dealers know this, and you would spoil the evening's amuseknow they can be sold. Therefore, ment. you are overlooking a chance to WLW, the Crosley station at Cinmake money when you fail to boost cinnati, has received a letter from them. A Musicone is needed by ev- R R. Willmot, skipper of the Shipery raido owner. Who can make ping Board vessel "Awgihavre". his town 100 per cent Musicone Willmot and his chief engineer first? In other words, who can sell heard WLW in mid-Pacific. a Musicone to every radio listener | From WLW at Cincinnati to the in his town or community?

PACIFIC HEARS WLW A few years ago, when windjammers sailed the seas that are now and cursing loudly if some of it was blown away.

# Chicagoan's Letter Wins First Prize In Crosley Contest

(Continued from Page 2.) like tones of the Musicone I was using. As we sat there listening the number ended and the an-= full blast and the Crosley 5-50 reaches out and brings in an Atlanic coast station. You cynics living Remember back in the good old in small towns may think this is not wonderful reception, but here

in with but a degree or two dif-And remember how Powel Cros- ference between their settings and I couldn't have taken that Crosley Mother knew what was good for away from them with anything

turing processes, but to really make Interest in radio was revived im- the set better. Its coils are not

Now that situation is cleared up somewhat but the sailors still have occasion to use their favorite swear words-for instance the radio an-

middle of the Pacific is some jump.

## BY WESTERN DEALER

"Verdon, South Dakota "January 25, 1927. The Crosley Radio Corporation. "Gentlemen :

"I am in receipt of the Crosley Radio Broadcaster of January 15, 1927. I have been going to tell you what I think of your little publication ever since I have been getting it. It is a wonderful house organ to me. I read every word of it every tlme it arrives. It is such a thing as this that keeps so widely scattered a family together. (I am sure that the Crosley family is scattered throughout the ends of the earth). Every article in it is worth reading and many are worth money to whoever reads them. I want to thank you for the receipt of this publication as well as to tell you that I like it.

"The dope you are putting out regarding the various tubes and tube combinations that are workable in your receivers is particularly great stuff to me. I am filing these so that I can always get at them in a minute.

"Yours truly, "R. J. Strauch."

Every rural schoolhouse in Conreceiving set.

# BROADCASTER IS PRAISED Dawn of Another New Era In Radio **Reception Is Seen**

(Continued from Page 2.)

tension voltages are impressed upon them, they will not permanently puncture as is the case with paper condensers, but will immediately and automatically heal the puncture and as a consequence, no injury of any kind to the condensers will result. This advantage can scarcely be overemphasized.

"There are only five connections to be made between the supply unit and the receiving set. These are conveniently provided for by cabled leads with phone tips which can easily be secured in the binding posts of the receiver. The leads are colored and the sub-panel of the receiver is marked so that no mistake can be made in the connections.

"The unit is equipped with a cartridge type fuse which may be placed in either of two positions to compensate for high and low line voltages. A rheostat is provided on the front panel of the unit for making adjustments to take care of small line voltages."

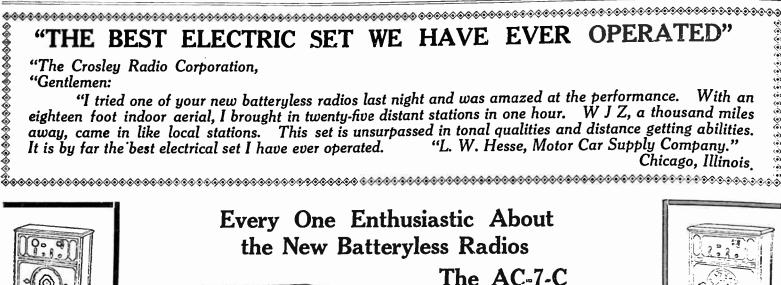
Radio engineers are considering the possibilities of further safeguarding commercial airplanes benecticut is to be equipped with a tween Venice and Vienna which fly over the Alps en route.

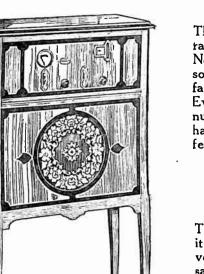


Listeners are desirous of obtaining units with which they can tune in the short wave stations. The Crosley Lowave is just what they want. Can be used with any tube set. This is certain to become a fast seller immediately. Order a reasonable supply from your distributor NOW. Be prepared to meet the demands of your customers.



## THE CROSLEY RADIO BROADCASTER





The new AC-7-C batteryless six tube radio has taken the country by storm. Never before has a radio been praised so highly. It is certain to become the fastest selling receiver ever offered. Every dealer must have a reasonable number in stock. The radio season has just begun for those dealers who feature these new sets.

# Price . . . . . . . . . \$95.00 The AC-7

This is the same as the AC-7-C except it is installed in a table cabinet. Its very low price will appeal to thousands. Californians are hearing eastern broadcasting stations regularly with this radio. Everyone proclaiming the new batteryless sets the very best ever produced by Crosley.

# Price . . . . . \$70.00 The "A", "B", "C" Battery Eliminator

The Crosley "A", "B" and "C" battery eliminator was designed solely for use with these radios. It has been referred to by radio experts as the "Wonder Box of Radio." A battery eliminator is shipped with each batteryless radio.

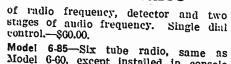
# Other Four, Five and Six Tube Radios

Model 4-29—Four tube radio, one stage of tuned radio frequency amplification, Crescendon controlled detector and two stages of audio frequency.—\$29.00. Model 5-38—Five tube radio, same as 4-29 with additional stage of radio frequency, —\$38.00.

Model 5-50—Five tube radio, single dial control, power tube adaptability, Crescendon, acuminators, etc.—\$50.00

Model 5-75—Five tube radio, same as 5-50 except installed in console cabinet, with built-in Musicone.—\$75.00.

Model 6-60--Six tube radio, three stages



Model 6-60, except installed in console cabinet with built-in Musicone.—\$\$5.00. R. F. L.-90—Six tube radio, using famous R. F. L. circuit. Console cabinet with

built-in Musicone.—\$98.00. R. F. L.-75—Five tube radio, using famous R. F. L. circuit.—\$65.00.

Lowave—Device permitting tuning in low wave stations. Used with any radio set. -\$40.00.





MANUFACTURERS **SPARKON** STORAGE BATTERIES

BATTERY PARTS



EXCLUSIVE DIST. Red Jacket BULL DOG DRY CELLS



RADIO EQUIPMENT



AUTOMOBILE TIRES "NOTT'S THREE POINT" INNER TUBES

Page 4

ABC BATTERY ELIMINATOR \$50

AC-7 \$70

0

6-85 \$\$85

4-29 \$29

MUSICONES

SUPER \$14.75

ULTRA \$9.75

DELUXE \$2350

140

Ö



Minneapolis, Minn.

January 21, 1927.

Crosley Radio Corp., Cincinnati, Ohio.

Attention: Powel Crosley, Jr.

Dear Sir:

We received the sample AC7 and AC7C batteryless radio receivers. The writer tested the AC7 last night and wishes to congratulate you on the excellent performance of this set.

On a very short aerial - not over 50 feet long and at no point over 10 ft. above the ground - coast to coast loud speaker reception was enjoyed, tuned through three powerful locals; there is no AC hum or noise.

There is a waiting market for this set and we feel sure that these two numbers will be very popular.

Yours very truly,

W.S. HOTT COMPANY

Paul Goldsborough Assistant Manager

PG:GKN

Page 6

# Invention Modernizes Old Style Phonographs By Linking Them With Modern Radio Receiving Sets

Confine Dealings To Few Jobbers

inately from Unlimited Number of Sources Bared by Distributor.

"Trilling and Montague, Crosley distributors at Philadelphia, point out, in the following article appeargan-"Radio Talks"-the advan- lete by newly developed electrical The same difficulty is encountertages of a dealer purchasing mer- talking machines, have been saved ed with horns. Every horn tends

It has long been accepted as a business axiom that a dealer gains many advantages by confining his has been developed by Charles neglects others. houses as possible. The reverse, discriminately from an unlimited tion with a radio set, converts any MEROLA, which is typical of such number of sources. Indeed, it is not mechanical phonograph, playing a methods of reproduction. uncommon to see a small retail laterally cut record, into an elecer's problems, as will be shown plete reproduction of the entire it follows easily any wiggles in the on the Crosley 5-50. later, instead of being to his advan- musical range, without distortion. record groove, even those repre- "The Coalinga district averages tage, as he presumably supposes.

be two reasons which would prompt electric reproduction." being closely checked by his cred- device. itors. Second, playing one wholesaler against another with a view

Dealers Advised To Thousands Of Obsolete Machines Are Saved From The Scrap Heap By Recently Invented Merola

Dangers of Buying Indiscrim- Device Developed by Crosley Engineer Converts Mechanical Phonograph Into Electrically Reproducing Machine, With Excellent Tone and Volume.

#### By John R. Loofbourow

#### Department of Physics, University of Cincinnati

Thousands of old fashioned me- | much and others are almost entireing in their interesting house or- chanical phonographs, made obso- ly blotted out.

unique invention.

houses instead of confining his stitute tone arm for the phonograph, ciable effect on the reproduction hills and mountains, and in the purchases to the fewest number It is attached by a cord to the due to natural vibrating frequen-summer the thermometer occasionconsistent with his needs. First detector socket of a radio receiv- cies of its own. Thus the distor- ally stampedes to a point of 110 10 limited working capital or credit, ing set and the music from the tion characteristic of diaphragms 116 degrees. There is an abundwhich condition the dealer tries to record is thereby 'reproduced is done away with. alleviate by limiting his purchases through the radio set and loud About the armature is placed a ever, Mr. Smith has found that the in any one quarter and thus keep speaker. The MEROLA also is coll of wire, and a permanent mag- Crosley 5-50 'brings them in' clearthe true state of his finances from equipped with a volume control net. of the circular type is so er than any radio he has heard

Before explaining the theory and the intense field between its pole "The following list comprises a operation of the new device it pleccs. Every movement of the few of the stations logged by Mr. to gaining an advantage in prices, might be well to scan the funda- armature in this field will cause Smith on a single 'fishing' trip:

a single supplier, and in that way tend to reproduce some musical comes the difficulties ordinarily en-Bristow, Okla.; KFVD, Venice, Cal-

California Fan Is Enthusiastic Over Five Tube Radio

Range and Clarity Unusual for Territory Where Thermometer Goes to 115°, and Static is Always Bad.

(The following interesting article appeared on the first page of a recent issue of the Coalinga, California, Progress) :

"Otto C. Smith, the very efficient chandise from a limited number of from the scrap heap by a new and to "resonate," as scientists say, at and congenial salesman, at W. W. some particular frequency. That Smith's sporting goods house has This device, known as the Merola, is, it augments some notes and been an ardent radio fan, or bug, or whatever it is they call 'em, business dealings to as few supply W. Peterson, Cincinnati inventor, An analysis of electrical repro- for a period of five years, and employed by The Crosley Radio ducing methods, which overcome has a wide knowledge of the however, seems to be the rule with many radio dealers, who buy in-The unit, operating in conjunc-ly given by a description of the careful study and personal observation. He has experimented The interior construction of the with instruments of every descripdealer doing business with as many trically reproducing machine. This MEROLA consists of a light, hol- tion and at this particular stage of as a dozen wholesalers, which adds increases volume, eliminates needle low iron armature carrying a his experiments, admits that he is greatly to the burden of the retail- scratch and enables a more com- needle. This is made so light that 'sold' absolutely and permanently,

The MEROLA derives its name senting the highest sound frequen- a topographic altitude of 565 feet, On the surface, there appears to from the initial letters of "magneto cy, that is, the highest musical and is considered one of the poorest notes. The armature is too small places in existence for 'reception.' a dealer to buy from numerous Briefly, the MEROLA is a sub- and too light to have any appre- We are in a valley surrounded by mounted that the armature lies in here. And its 'range' is unusual.

mental problems that have made a current to flow in the armature KDKA, Pittsburgh; KPSN, Pasa-To attempt to cover up financial ndistorted mechanical reproduction coil, because of the same electro- dena; KOA, Denver; WJAZ, Chishort-comings in the manner first practically impossible. The ordiabove indicated, is to imitate the nary phonograph record collects ble the generation of electricity Chicago; WJR, Detroit; KGW, ostrich, which buries its head in the sound impressions on a disc. These by the rotation of a coil of wire Portland; WHO, DesMoires; KLX, sand to avoid being seen by its pur- sound impressions are represented in the magnetic field of a dynamo. Oakland; KHJ, Los Angeles; suer. No man can succeed long in by "wiggles" in the grooves of the Thus the wiggles, or waves, in the KFOA, Seattle; KPO, San Francisescaping the dreadful consequences records and they are transmitted record groove cause corresponding co; CFCN, Calgary, Can.; OKCD, of such erroneous design. Indeed, to a reproducing diaphragm by electric currents to flow in the Canada; KHJ, Times, Los Angeles; armature coil. It is merely neces- KMITR, Los Angeles; KJR, Seattle; to his burdens the constant vigi- It is in this diaphragm that we sary to amplify these current flue- KFBC, San Diego; KNX, Hollylance and manipulations required encounter one of the major stumb- tuations in the audio-frequency wood; KGO, Oakland; WLS, Chicato prevent discovery, which activ- ling blocks in the way of perfect stages of a radio set, and to deliver go; WJAZ, Chicago; CFCT, Vicities prevent him from attending to mechanical reproduction. Every dithe proper functions of his business. aphragm tends to vibrate with a grade loudspeaker, and the result Salt Lake City; CNRV. Canadian It is obvious that a dealer in this certain frequency characteristic of will be electrical phonographic re- Natl. Ry.; WQJ, Chicago; KMMJ, position has more to gain by con- its size, shape, material and other production of the finest quality. Clay City, Nebr.; WOAW, Omaha, fining his dealings to a few, or even qualities. Consequently diaphragms It is the loudspeaker which over Nebr.; WOI, Ames, Iowa; KVOO, a single supplier, and in that way tend to reproduce some musical countered in phonograph horns. Bristow, Okia.; KFVD, venice, Oar be in position to meet his obliga- notes better than others. Some countered in phonograph horns. ifornia; KMS, Fresno; KFON, Long tions more promptly and to receive notes are reproduced with true tone The radio speaker corresponds to Beach; KOWW, Walla Walla, (Continued on Page 13) Wash.; KFKX, Hastings, Nebr.

# Kentuckian Tunes In Port Au Prince With Crosley 5-50

Montana Listener Listens for More Than Two Hours to Australian Station, Using 5-38 and Musicone.

How a Newport, Ky., listener tuned in a station in Haiti, and a Montana fan listened for more than two hours to a station in Australia, both using Crosley receiving sets, are related in the following letters, which may be pointed out by Crosley dealers as proof that far-away stations easily are tuned in by Crosley set owners: "Dear Sir:

"Last evening I had the pleasure of listening to the broadcasting station at Port Au Prince, Halti. I have one of your Model 5-50 receivers and I am very much pleased with my set. I purchased this set about a month ago and have received more than one hundred and seventy-five broadcasting stations, including two in Mexico City, five in California, six in Canada and two in Colorado.

"I have not listened to a set yet that equals the Model 5-50 in tone and selectivity. I am enclos ing a copy of the letter which I mailed to the station at Port Au Prince

"Wishing you a Happy New Year, I beg to remain, "Harold A. Abbe,

"Newport, Ky."

"Dear Sir: "I have just signed off from gram during this time that I did not pick up. "The set I used was a Model

5-38, which I have set up in my home. This set is equipped with five 301-A tubes, dry cell "B" and "C" batteries and a storage "A" battery. I used an iron pipe for a ground and an outside single wire antenna about 90 feet long and 25 feet high. The tubes I used a regular Musicone all the time. Pittsburgh, Pa., at 4:30 in the

ceived. I returned home from a aerlal, is some feat to boast of. dance at a little before four and This was the experience of R. G. tuned in this station at just about Martin, Crosley dealer for Emmett, 4:00 a. m., but did not pay any Idaho, a far-out Western town, particular attention until the an- when a week or so before Christnouncer started giving a weather mas he had to climb up on his

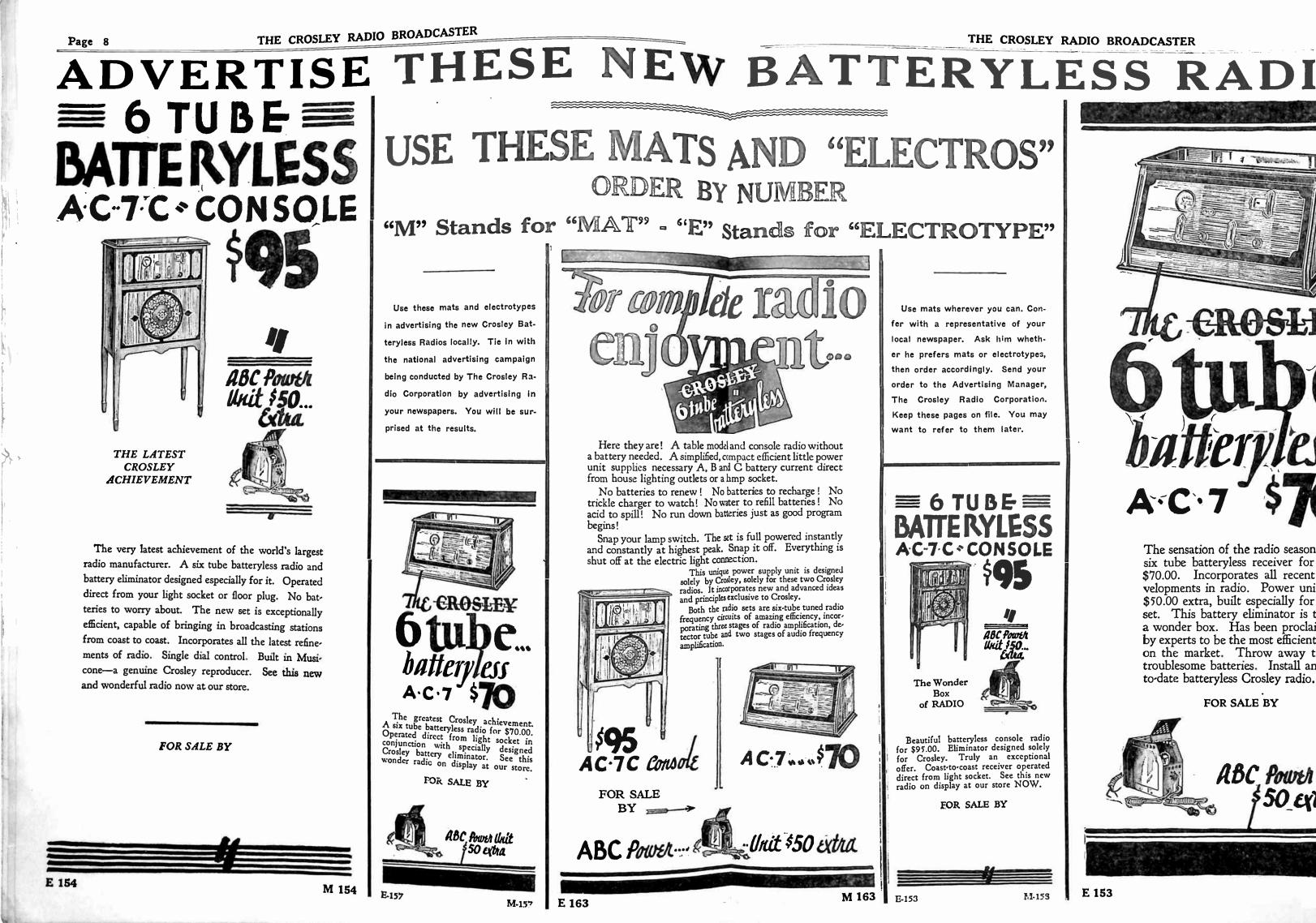
very close to 350 meters wave ing in while on the roof, and call- tions in 17 states and ing to his son, Glenn, who had Canada. length. "There was very little fading been left in charge of the store, "My list includes stations in Tountil after 6:00 a. m. when the he heard the announcement over ronto, Buffalo, New York City (3), listening for two hours and seven sky started to get gray in the the radio-KDKA, Pittsburgh-with Atlantic City, Baltimore, Pittsminutes to a program from east and I presume it would be a program that he could hear very burgh, Cincinnati, Nashville, New Sydney, New South Wales, Aus- excusable not to get daylight re- plainly while on the roof. The Orleans, Jacksonville and Cleartralia, and I do not believe there ception quite that far. At any aerial was left disconnected until water, Fla., Tulsa, Denver and was a single selection on the pro- rate it would be pretty hard to get the completion of the program Minneapolis, besides stations in much more distance until we get which was heard by a large crowd Michigan, Indiana, Illinois, Iowa, broadcasts from Mars. gathered to witness the almost un- Missouri and Nebraska. believable results with a Crosley "All these stations were heard "You have some radio and please R. E. L.-75 accept my congratulations. through the Crosley Super Musi-"Mr. Martin is proprietor of cone, and all were heard clearly "Albert J. Borton, Martin's Radio & Service Station, and distinctly except Clearwater, "Glasgow, Montana." exclusive Crosley dealers for Em-|Fla., which was not clear owing \* \* \* mett, Idaho, and has been success- to interference from Indianapolis.

'Gentlemen : ful in putting out a large number | "You may be interested in know-"Tuning in long distance with of Crosley radios this season. He ing the kinds of programs these a Crosley 5-50 may be an everysays he has 'em all talking Cros- stations were giving at the time have been in constant use since day occurrence, but when an ley and expects to treble his busi- I listened. Eighteen stations were about the first of March. I used R. F. L.-75 will pick up KDKA, ness for the coming season. giving orchestra selections, eight "Fred J. Hotes, Correspondent, vocal numbers, three plano and "Now as to the program I re- afternoon, without the use of an violin duets, one an organ recital, "The Radio Broadcaster, one a saxophone solo and five "Marshall-Wells Company, educational talks and lectures. "Portland, Oregon." "From the above statements you may rightly infer that I am well "Gentlemen pleased with my Crosley 4-29. "J. J. Crowder, Peoria, Ills." "Last night I was at home alone The letter from Mr. Crowder forecast for Sydney and New South roof to repair the aerial which so I amused myself by tuning in Wales. From them on I logged it. had broken down in a snow storm. on the four tube 4-29 Crosley ra- was sent to Clifford Bros., Crosley I picked it up between WLS, "Disconnecting the aerial in dio set recently bought off you. dealers at Peoria, Ills., and later Chicago, and WWJ, Detroit, or 36 order to make the repair, he was Between the hours of six o'clock sent to the editor of The Broadon the dials, which ought to be surprised to hear a program com- and midnight, I listened to 35 sta- caster.

# CROSLEY PUBLICITY IN JAPAN



Reproduced above are the covers of two Japanese radio magazines, on which Crosley Radios are featured. Both were beautiful three colored covers. Crosley radios are very popular in Japan, are advertised extensively and "draw" a large amount of publicity.



# THE CROSLEY RADIO BROADCASTER Page 9



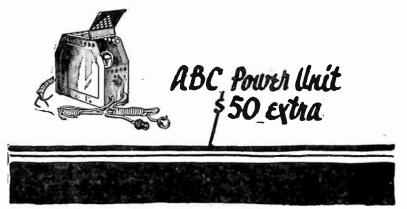
FOR SALE BY





The sensation of the radio season! A six tube batteryless receiver for but \$70.00. Incorporates all recent developments in radio. Power unit, at \$50.00 extra, built especially for this set. This battery eliminator is truly a wonder box. Has been proclaimed by experts to be the most efficient one on the market. Throw away those troublesome batteries. Install an upto-date batteryless Crosley radio.

FOR SALE BY



E 153

M 153

Page 10

## THE CROSLEY RADIO BROADCASTER

# **Universal Language** Is Needed In Europe As Result of Radio

American Listeners Also Soon Will be Favoring Adoption of an International Language.

Radio fans in Europe are rapidly beginning to realize the need of an international language, so as to be able to enjoy all of the programs that they hear. Fans in France, for instance, can tune in programs in English, Dutch, Italian, German, and Spanish, as well as French, and those with long-distance sets can receive programs in even other languages than these.

Need of an international radio language was realized several years ago in America, and lessons in the language Ido (an improvement on Esparanto) were actually broadcast from station WLW, the Crosley station in Cincinnati. A wide interest was exhibited among prominent persons in the new language at that time, and several books and pamphlets were published on the subject.

Although Ido has not been popularly adopted by foreign broadcasters as a means of international understanding, the need for some such language as Ido is now being keenly felt by European radio grams from neighboring foreign countries, they cannot understand the announcements. This is disconcerting to fans who wish to try for distant stations, since they find it impossible to identify the stations even when they succeed in receiving them.

Up to the present time American fans have not had to contend with the problem of receiving programs in foreign tongues, since European reception has not been practical. It is possible, however, that with the rapid development of the broadcasting art it will be but a few years until Americans can regularly listen to the European stations. and then the need for an international language will be felt even more acutely.



Dirty or greasy panels can be leaned by rubbing lightly over the surface with a soft cloth dumpened with alcohol. This will remove the dirt, then dry the panels with another cloth. The alcohol will evaporate quickly without damaging the set in any way, and will leave a high polish. Never use water when cleaning panels or any part of the receiver.

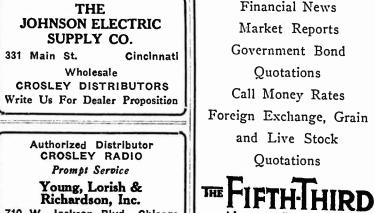


This full page advertisement in a recent issue of a Little Rock newspaper resulted in the sale of a large number of Crosley Radios. listeners. While it is possible for Other distributors and dealers can increase their sales by duplicating them to enjoy the musical pro- this advertisement. Necessary cuts will be furnished free.

#### BUSY STREET CORNER IS "STUDIO" FOR WLW

Charles P. Taft, brother of the building occupied by Mr. Taft's Chief Justice of the United States newspapers. The veteran publisher Supreme Court, overcame "mike" was persuaded with some difficulty fright" several days ago and made to approach the "mike," but once his first appearance before a radio microphone

The occasion was a special broadcast staged by WLW, the Crosley station, on a crowded Cincinnati street corner, with Ford and Glenn, the WLW Lullaby Boys, furnishing



Richardson, Inc. 710 W. Jackson Blvd., Chicago Phone: Haymarket 8240

the entertainment. The broadcast, the first of its kind in radio history, took place in front of the



Quotations

NATIONAL BANK-CINCINNATI

there he acquitted himself with distinction by saying only five or six words and thereby earning an affectionate place in the hearts of speech-ridden radio fans.

Powel Crosley, Jr., radio manufacturer and Col. C. O. Sherrill, city manager of Cincinnati, also made short and snappy talks.

The unique sidewalk broadcast attracted a mob at the street coner that blocked traffic for fully half an hour. It was lunch time and hundreds of office workers from nearby buildings thronged the street. Twelve policemen formed a wall around Ford and Glenn and Fred Smith, director of WLW, to give them room to stage the show.

If You Wish to BUY or SELL SECURITIES

Or Own Some About Which You DESIRE INFORMATION Communicate With Us. Our Statistical Department Is At Your Service

# WESTHEIMER & CO.

MEMBERS OF-

THE CINCINNATI STOCK EXCHANGE THE NEW YORK STOCK EXCHANGE Telephone: Main 567 326 WALNUT STREET

# NEW ELECTRIC

# SIGNS

## **ARE FLASHING EVERYWHERE**

Order Your Three-Color Electric **Crosley Advertising Sign** Immediately.

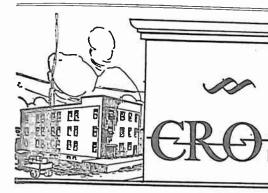
This neat and attractive sign, which can be seen at great distances during the day and at even greater distances when illuminated at night, is certain to attract immediate attention. It is twenty inches in diameter, the frame being of silver effect and the globe decorated in three colors. Use of this sign, either in front of your store or in your window, will permit you to tie up perfectly with the tremendous advertising campaign The Crosley Radio Corporation is carrying on. The glass is so made as to withstand the hardest usage, and is said to be practically unbreakable.

PRICE OF GLOBE AND EXTENSION ARM

\$12.00 F. O. B. CINCINNATI Cash, Check or Money Order Must Accompany Your Order Which

Should Be Sent To Advertising Department,

The Crosley Radio Corporation Cincinnati, • • • Ohio



# **Minister Enjoys** Hearing Crosley Jobber Broadcast

Station WOAI Receives Interesting Letter from Methodist Pastor, Who Also Praises His Crosley Radio Set.

One of the most popular of the Southern broadcasting stations is WOAI, owned and operated by the Southern Equipment Company, Crosley distributors at San Antonio, Texas. Like other stations, it receives many interesting letters from radio listeners, but J. G. Cummings, manager of the radio branch of the company, believes the following, from a Methodist minister, is about the finest he has ever read. It follows:

"Humble, Texas. "Broadcasting Station WOAI, "San Antonio, Texas, "My dear sirs:

person to sit for so many hours and in this letter.

"I am pastor of First Methodist "I am pastor of First Methodist window of our city store, 512 Maine Terwelp as the Quincy dealers, and organize a new sales force, but the church at Humble-twenty miles St. We had the RFL-90 on display Tenk Hardware Company whole-from Houston and my radio set is St. We had the RFL-90 on display Tenk Hardware Company whole-sentiment around the plant would I am sitting here now listening to show which was held last week, 'Bye bye blackbird,' as played by Jan. 17th to 22d. your afternoon pianist. I have think clearer and work with more able broadcasting station operated be, when I say this.

them you certainly show fine taste back.' From coast to coast we it. Hot dog! I wish I could do it iness.' We adjust the dials correct- And especially do I want you to flower pots thru, May, June, the as well!

"We have a Crosley radio and natural voice and instrument tones. for us. And let him know that The sales plan of this plant has have been using it two years. And The other night my wife and I went whenever he (or could it be she!) what I mean is, that we have USED over to a neighbors to listen in with is playing there is some one or ones it. It is in operation at least six them for awhile; then came back in the Methodist parsonage of Humhours every day, at this season of to our parsonage, and when we ble First church who is enjoying programs, and every reason why the year. We are using the same tuned in our Crosley we found by his numbers to the full. tubes that came with the set, and comparison that we much preferred

where I can enjoy it while I work. in the window during our radio sale distributors for this territory. sentiment around the plant would bet as Marysville, Kans.; St. Paul, "Our radio show was sponsored Minn, and one from some town in was a former farm boy and he had been busy most of the afternoon at by the Carroll Broadcasting Com- Ohio, so you can see it more than a plodding, slow-moving but tenacimy typewriter, but, somehow, I can pany, of Chicago, who had a port- covered our entire trade territory. ous red headed cousin. This boy 'pep' when WOAI is coming in. Now on 100 watts and 215 meters. They night and the wax figure looks very a salesman. But, he couldn't condon't laugh, for I don't mean may- broadcast at different hours during natural." "This reference to the afternoon they are good and strong. We get our set. And the neighbor's set flowever, one late white the programs alone does not mean that all the stations that the people get was what you might term 'the cat's completing its sales force so they we fail to appreciate those on the who have sets that cost three or pajamas.' It cost him something put this boy to work in one of the air at night. In the making up of four times as much as ours 'set us like three hundred and fifty bucks. "Just thought it would be the and discrimination. But let me tell reach out and rake 'em in, and the 'white' thing to do to write these you, that afternoon pianist of yours fine part of the story is, that the lines and tell you of the fine encan take the 'jazziest' jazz in the reception we get is not jazzed up tertainment you are giving us, and write him when the season ended world and put heart and soul into with all kinds of distorted 'throat- 'without money and without price!'

/Imong s **¥JOBBERS** 



show window of the Tenk Hard-sponsored the program between who do not believe that the seaware Company, Quincy, Ills., dis- seven and eight o'clock each eve- son has ended. To these dealers "I do not think it is right for a tributors of Crosley radios. This ning and called it the "Crosley it has not ended. was especially decorated to attract hour." Three of the local dealers enjoy programs such as you have put on the air without taking time thow. The letter accomponying the put on the air without taking time show. In a letter accompanying the nouncer call this the "Crosley brick clay. Their business had alto show appreciation in a real way. show. In a letter accompanying mouncer can this the original to show appreciation in a real way. picture, Mr. N. B. Getty, of the Tenk Hour" and give three Quincy dealers, namely, A. F. O'Deil, Stroot "This photograph shows the east Hardware Company and Pfeifer & down. Each late winter they would

> ly and the result is clear, strong, congratulate the afternoon planist summer, fall and the next winter. "Frank Platt."

# Interesting Story Is Told By Jobber In Letter To Trade Radio Season Still On In Full Swing For Those Who Keep

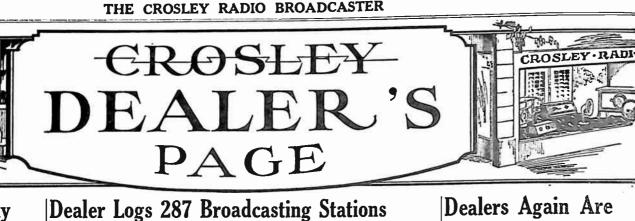
Selling, O. D. Tucker, IV & Co., Says In an interesting letter to the dealers in their territory who are handling Crosley merchandise, O.

D. Tucker IV & Co., Crosley distributors at Little Rock, Ark., says: "This is the season when you can either sell radio or not sell it. Before Christmas you could sell all you could get. Now conditions have changed; you can get all you can sell. Some dealers already have made up their minds that the radio season has ended. To these deal-The picture above is that of the the afternoon and evening. We some who still are working and ers it has ended. But there are

> "This condition reminds me of an ways been good about three months "We had responses as far west the season had ended and very "The photograph was taken at had conceived the idea that he was rince any one else that he was.

hardest and farthest distant territories. He did not make enough money to come to the plant and no and the darn fool went on selling changed and it now works the twelve months of the year. So it is with the radio business. There is good reception all the year, good there should be some all-year business in the radio business."

Page 12



# "Radio Reliability Costs You Less," Dealer Declares

**Neatly Arranged Show Room** -Only Nationally Advertised Radios Sold

Adopting a principle and following it scrupulously is one of the best in 287 broadcasting and 40 amateur sets in the last four weeks. ways of succeeding in any business. Such has been the case with Silver Marshall, Inc., 105 S. Wabash Ave., ers. The slogan of this concern, several of the achievements that I ter job of them. one of the best-known radio retail have accomplished with one of your Reliability-Costs You Less." This I have logged 287 broacasting sta- A C sets. They certainly should be increased rates be avoided. is the rule and it has been closely tions besides 40 amateur stations. wonders. adherred to.

means dealing in good products that in 58 stations, good and clear, using are known to be dependable. In the a Super Musicone. Believe it or long run, according to A. W. Young, not, I have out demonstrated many manager of the store, the best prod- high priced sets during the last ucts are the most economical. Thus two months. Without a doubt the it is that the firm makes it a point 6-60 will be a great seller. to deal in none but the best, and by so doing can stand behind every piece of merchandise that is sold. Stability marks this store. There is no slashing of prices during dull season for the purpose of attracting buyers. Regular prices always prevail. Mr. Young belleves that following the slogan, "Radio Reliability-Costs You Less," has brought the firm a great measure of its success.

One of the outstanding features of the Silver Marshall store is the dis- difficulty. play room. This is not so much a room as a cozy nook, where prosdivers sets. Also lacking in this During busy hours the sets are ad- ground."

**Out-Demonstrates High Priced Receivers** Roy G. Utne, Crosley authorized ter which we received from a user Proposed Increases Will Work dealer at Ortley, South Dakota, of a Crosley 5-50 Radio. It speaks

With Crosley Five Tube Model 5-50 Set;

tells, in a letter sent to the Broad- for itself. caster, about out-demonstrating many high priced radios with the one case of about fifty as we have five tube 5-50 and how he has tuned sold about that number of Crosley

stations. His letter follows: "Dear Sirs:

On the night of Jan. 18, 1927, be-By this maxim Silver Marshall tween 7:00 and 8:00 P. M., I tuned

"The Broadcaster upholds the traditions of Crosley radios; it's wonderful.

> "Yours very truly, "Roy G. Utne."

And here is a letter from one of our dealers at Oil City Pa.:

'Gentlemen :

"We are enclosing herewith a let-

various sets and choose the one very much in demand. The selling noticeable increase in sales. There is no lavish display of ornate inclined to buy a good set that has windows of this store are changed home while they are inspecting the sales have to do with radio parts. shown. "The radio business is becoming comfortable show room is any laby- more stabilized," Mr. Young said.

rinth of wires and mechanical ad-"There is a greater stabilization of time payments. Needless to say, juncts, so mysterious and unappeal- prices now than formerly. The cut- this is an apt indication that peoing to most prospective buyers. price stores are rapidly losing ple are immediately interested in send protests to Congress. Do your

customer enters the store he may bearing upon the business of the rather than to buy cheap brands. for a vote.

"We might add that this is only

"A. R. Lalonde."

The letter he enclosed follows: "Prospect Park.

"Dear Sir:

5-50. It sure is satisfactory.

"Oil City, Pa. I get KFI every Sunday morning.

"Yours very truly, "Lee Prosser."

per cent of the sales are based upon manufacturers to do all the adverjusted in advance, so that when a Radio programs have a direct good sets that are nationally known measure that soon will be ready

Hardships on Every Merchant Who Circularizes Local Mailing List.

Urged To Oppose

New Postal Rates

In the last issue of the Broad-"Never in all our radio experience caster we urged every Crosley deal-"Ortley, South Dakota. have we found a set that has sold er and distributor to send a letter like the 5-50 and the 5-75. We have to his congressmen and U.S. Sen-"I am a Crosley dealer and think handled Crosley sets for three years ators, asking them to vote against Chicago, Crosley authorized deal- it is only fair that you should know and we have each year made a bet- the proposed changes in postal rates, and now we wish to repeat "We are wondering what we are this request, realizing that only by establishments in the city, is "Radio 5-50 sets since November 1, 1926, going to be able to do with the new concerted and immediate action can

In circularizing your consumer "Yours for more Crosley Sales, mailing list, you naturally use third "M. A. LALONDE & SONS, class mail. Such letters as these formerly were mailed for one cent. but almost two years ago the rates were increased to 11/2 cents. Now "Franklin, Pa. Congress plans to change the rates again, permitting letters weighing "Just a line about the Crosley less than one ounce to be mailed for one cent, while two cents will

But your Congressmen are reasonable and will not adopt legislatune in a station with little or no dealer, Mr. Young reported. Im- tion if they know it will work mediately following any major hardships on their constituents. If Only nationally advertised sets broadcast, such as the presentation you will write, or wire, in mediateare sold at the Silver Marshall of the World Series or a similar ly, to your representatives in both pective purchasers may look over store. Naturally enough, these are event of general interest, there is a the House and Senate, pointing out to them what the increased rates that appeals most to them. Taste- of radio parts has decreased, ac- Like all alert retailers. Silver will mean to you, and to the manfully decorated, it is very attractive cording to Mr. Young, owing large- Marshall realizes the inestimable ufacturers you represent, it is posin its simplicity and homelikeness. It to the fact that now people are value of good window displays. The sible that the bill will be changed. Manufacturers with large mailing furniture, no crowded array of mur been found dependable rather than at least once a week and care is lists will be especially hard hit, and als and fantastic lighting effects. to go to the trouble of building a taken always to tie up the displays will be compelled to deduct the in-The utter lack of all this attracts machine themselves. Nevertheless, with current advertising. Radio creased postage from their advercustomers and makes them feel at 25 per cent of the Silver Marshall parts as well as complete sets are tising appropriation. This also will be a hardship to the dealers and It is an interesting fact that 95 distributors, who naturally want the

tising possible. Let us know how many of you

radio and that they prefer to invest in share in preventing adoption of the

# Merola Is Saving Old Phonographs From Scrap Heap

(Continued from Page 6.) the link in the reproducing chain which, in mechanical phonographs, is represented by the sound chamber of horn. Horn-type speakers have been replaced almost entirely by the more modern cone-type speakers. The cone-type reproducer, especially if made with a freefloating cone (that is, one which does not have its edges clamped) is practically free from the distortion common to horns,

field

Thus the two vital features of the electrically (reproducing system which explain its superiority to mechanical systems of reproduction are, first, the replacing of the usual diaphragm by a light, sensitive armature, and second, the replacing of the horn by a distortionless, cone-type speaker. In mechanical reproducing systems, a diaphragm is practically necessary, for in such systems the object is to move as much air as possible in order to create a large volume of sound. In electrical systems, on the other hand, the function of the

entirely different. It has simply through the rheostat resistance. to create small electric currents

In order to make the MEROLA tion on the resistance coil itself. OLA case in order to prevent feedarinature just as sensitive as pos- To compensate further for minor back into the set. sible to all tones, a special design, distorting, frequencies introduced covered in the patents on this de- by mechanical characteristics of caused in the MEROLA armature considerable item of loss, much vice, is used. The entire arma- the vibrating system, a condenser coil by the vibrations set up in the greater than the average dealer ture and needle chuck consists of and resistance are connected in armature as it travels along the realizes. The subject is now agia single piece of light, tubular mag-series across the terminals of the record groove are impressed across tating the minds of many business netic material which has been armature coil. These are so : formed into shape so as to provide justed as to effectually block the former. These current variations suffered by retail dealers through a chuck needle holder at one end. secondary distorting effects whic! are then amplified in the audio-having many salesmen calling upon The result is an armature which is are not fully overcome in other frequency stages of the set, and them and each consuming some of at once both light and extremely parts of the system. Thus the con- are delivered from the set to the the dealer's time. Add to the time rigid.

Another feature which helps to portant part in eliminating the intensity. insure faithful reproduction is the noise of needle scratch. characteristic of the armature.

coil is short-circuited. This re- tion.

The unit may also be permanent- in executing clerical details incl-"deadener", a piece of soft rubber Installing the MEROLA is simply by connected to the radio set, if dental to doing business with many attached to the armature which a matter of putting the MEROLA desired. If this is done, it is some- houses, and a loss of no mean prohelps to dampen out the high fre-plug in the detector socket of the times necessary to de-tune the ra- portion stares you in the face. quencies and thus overcomes what radio set and connecting the extra dio set when using the MEROLA Summarizing, it becomes evident little natural period is actually lead wire to the detector "B plus" in order to prevent the reception of that a merchant's best policy is to terminal of the set. The connec- the radio signals simultaneously confine his business to a few re-For adjusting the loudness of the tions of the set are not disturbed. with the phonographic reproduc- liable houses. reproduced music, a volume con- The detector tube must, of course. tion of music. A third method By placing the bulk of his busitrol is provided. This consists of be removed from the radio set be of connection makes it possible to ness with one or two houses his a rheostat which is connected fore the MEROLA plug is inserted switch instantaneously from the ra- account is usually considered worth across the armature coil in such in the detector socket. After this dio set to the MEROLA and vice while. The house and its salesmen a way that when all of the resist- simple connection has been made, versa, while at the same time sav- take a personal interest in his welance of the rheostat is cut out, the the MEROLA is ready for opera- ing the radio-frequency tubes when fare; he is often tipped off to his the MEROLA is not in use. advantage; he is advised in a duces the volume to zero. To in- When connected the armature Dry-cell tubes may be used in the wholehearted and sincere manner, crease the volume, more of the re- coil of the MEROLA is placed set, but better results are obtained and usually he can depend upon his sistance is cut into the circuit, so across the primary of the first- when the standard storage-battery interests being as carefully guarded that more of the current from the stage audio-frequency transformer type tubes are used, and best re- as those of the house itself with armature coil is allowed to pass out of the set. One terminal of the (Continued on Page 14) whom he deals.

"Sunday morning, between two be charged for letters weighing and four o'clock, I had good recep- more than one ounce. Everyone tion on the speaker from KFI, Los realizes that it is impossible to keep Angeles, KFVD, San Pedro, a small a sales letter, with a catalog, withstation, KGO, Oakland, KPO, San in an ounce, and so instead of re-Francisco, KOMO, Seattle, Wash- ducing rates, Congress really is "104 State Street, ington. I think that is a record. planning to compel you to pay two cents for every sales letter you send out.

### Page 13

# Why You Should Boost Crosley

By FRANK GRIECO. Representing Motor Car Supply Co., Chicago, Ills.

CROSLEY is a national name in radio.

CROSLEY dominates in advertising in the moderate price

CROSLEY for years has been the pioneer in broadcasting which makes the sale of his merchandise easier.

CROSLEY has probably the greatest number of dealers in the U. S. A .- Therefore Crosley sets are easily purchased.

CROSLEY leads-never follows.

CROSLEY factories are equipped for mass production-A dealer is always sure of merchandise—and quality at low cost.

CROSLEY has no competitor-he builds radio sets for the masses-for the great American workingman's pocketbook.

CROSLEY has kept pace with the times-he is now the FORD of the radio industry.

So push CROSLEY, save time and make money.

\_\_\_\_\_

armature, or moving element, is into the set and less of it flows MEROLA armature coil is con- effort. In the event of stocking nected to the plate terminal of more than the necessary quantity The rheostat controlling the vol- the detector socket. The other of the same merchandise, the danwhich are to be amplified in other ume is of a special design which terminal is connected to "B plus ger lies in reduced turn-over, posparts of the system. For this pur- will not wear out, even with ex- 221/2". This connects the MER. sible obsolescence, deterioriation, pose, a light metal armature is en- tensive use. The contact arm of OLA armature coil directly across Furthermore, it might be assumed tirely satisfactory. Modern records the rheostat does not slide over the the primary of the first audio fre- that the saving, if any, could have are made by electrical recording resistance coil, but merely presses quency transformer. The other been achieved by buying the same methods which are similar to the a metal contact strip against the lead which is attached to "A plus", quantity of merchandise from one electrical method of reproduction. coil. Thus there is no wearing ac- is merely for grounding the MER- source.

> the first audio-frequency trans- leaders as to the economic loss denser and resistance play an im- loudspeaker at much augmented lost by the dealer in interviewing

# **Dealers Advised To Confine Dealings** To Few Jobbers

(Continued from Page 6.) the utmost of cooperation which is usually accorded a good account, regardless of the size of its husiness. Accounts of the right calibre though small, are always more appreciated than troublesome ones of bigger proportions and who by virtue of their size, sometimes assume an unreasonable attitude which in time becomes intolerable. And in the final analysis the small account profits in full measure by the service of the wholesaler.

As regards the second consideration, it unquestionably holds some possibilities of temporary advantage, but upon reflection it will be found that the disadvantages of the arrangement outweighed its advantages. First, it presupposes that the dealer should carry an inventory of many different lines of merchandise or an excessive amount of the same merchandise. In the former event it means tying up extra capital, loss through obsolescence or deterioration, and, chiefly, weakening of the sales structure through lack of unified, concentrated sales

The time element involved in doing business with a large number Thus the current variations of supply houses amounts to a very many salesmen, the time involved

#### TUBES FOR CROSLEY RADIOS TABLE OF

The accompanying table gives a resume of the information with regard to radio tubes for Crosley sets which has been printed in the last three issues of the "Broadcaster". It is intended for your reference in quickly choosing suitable tubes for Crosley sets.

Type of Set	Type Tubes to Use	Remarks	"4-29" Regular
All "50" Models	<ul> <li>indels199—Recommended for dry-cell installations.</li> <li>12—Satisfactory.</li> <li>201-A—Recommended for storage "A" installations or dry-cell "A" installations.</li> <li>200—Satisfactory for storage "A" installations.</li> <li>200-A—Satisfactory for storage "A" or dry-cell "A" installations.</li> <li>120, 112, 171—Cannot be used.</li> </ul>		201-A—Recommended for storage "A" installa- tions. 200-A—Satisfactory as detector. 200, 120, 112, 171—Cannot be used (unless an adapter is used).
"Pup"	12—Recommended for 	or storage "A" or dry-cell storage "A" installations. • storage or dry-cell "A"	tions. 200-A—Satisfactory as detector. 200 120, 112, 171—Cannot be used (unless an adapter is used).
All "51" Models	<ul> <li>199Recommended for</li> <li></li></ul>	for stornge "A" installa- etector. detector. nly. nly.	"5-50" and "5-75"199—Recommended for dry-cell installations. 
All "52" Models .	<ul> <li>199—Recommended for</li> <li></li></ul>	dry-cell installations. or storage "A" installa- etector. detector. kets if used. kets if used.	"G-60" and "G-85"201-A—Recommended. 200-A—Satisfactory as detector. 112—In last andio-socket only if used. 171—In last socket only if used. 199, 12, 200, 120—Cannot be used. "RFL-75" Series 1201-A—Recommended. 200-A—Satisfactory as detector. 199 12, 120, 200, 112, 171—Cannot be used (un- less adapter is used).
All "Trirdyn" Mo	171—In both audio soc odels190—Recommended for 12—Satisfactory. 201-A—Recommended for tions. 200—Satisfactory as de 200-A—Satisfactory as 120—In both audio soc 112—In both audio soc 171—In both audio soc	dry-cell installations. for storage "A" installa- etector. detector. kets if used. kets if used.	"RFL-75" Series 2201-ARecommended. and "RFL-90"200-A-Satisfactory as detector. 112In last audio socket only if used. 171In last audio socket only if used. 199, 12, 200, 120Cannot be used. "AC-7" and "AC-7C"199In all stages except last audio. 112For last audio stage. This tube combina- tion must be used. No other one is satis- factory. The 199 type tubes must be rated at 0.06 amperes filament current.

# Merola Is Saving **Old** Phonographs

(Continued from Page 13) production is obtained with a power popular. tube in the last audio-frequency stage. Either a 112 type or 371 type which units such as the MEROLA power tube is satisfactory. Both will be put, however, is in convertof these tubes give excellent results ing old-style phonographs in the in the reproduction of the low notes, homes of people everywhere into Ample volume for home use in even modern, electrically reproducing inthe largest rooms may be obtained struments. This will enable the with ordinary 201-A type tubes.

is in supplying music for large halls and auditoriums. For such use, a

aters, the renditions of the finest organists may be played. New records make it possible for each selection to last for a considerable length of time, obviating the neces-From Scrap Heap length of time, obviating the necessity of changing records frequently. This new use for electrical reproduction is becoming steadily more

The most important service to owner to get an entirely different A growing use of the MEROLA kind of phonographic reproduction.

The latest invention in radio power amplifier is required. With broadcasting sets in Germany is the proper type of amplifier, sufii- housed in an armoured motorcycle cient volume may be obtained : in such a manner that only two fill a large auditorium with music. minutes' preparation is required In churches and motion-picture the- before sending a message.

# Radio's Greatest Novelty!!! "BONZO"

Every dealer should carry a reasonably large stock of these Bonzo Pups. They are, without a doubt, the fastest selling radio novelties on the market. Originally made to serve as advertisements, the demand has grown until now many dealers are featuring them in their window displays. Everyone wants a Bonzo. Cash or check must accompany your order for these Pups. .00

Send your order to your distributor or to

THE CROSLEY RADIO CORP.

Cincinnati, Ohio

### Type of Circuit

The Model RFL-90 is a six-tube of the "Broadcaster." set, incorporating three stages of Proper Batteries to Use balanced radio frequency amplification, a non-regenerative detector. are recommended for this set (see tions, and base his recommended for this set (see and two stages of transformer above). It is suggested therefore himself, coupled audio-frequency amplifica- that for an "A" battery a 6-volt tion. The radio-frequency stages storage battery of at least 80 am are balanced by the RFL bridge pere hours, or a good "A" eliminmethod, which will be fully ex- ator be used. plained in another article Part II of this series on the RFL-90 will revealed the set. Do not use high- A diagram of connections, reprodescribe the circuit in detail.

#### Proper Tubes to Use

Balanced circuits of this type should only be used with tubes having the proper characteristics in all radio-frequency stages. In the factory, the RFL-90 is balanced with standard 201-A type tubes. To prevent oscillations in the radio-frequency stages, only tubes having identical or very similar characteristics to standard 201-A's should be used in these stages.

As a detector tube, a 201-A tube. or one of the new 200-A type d tector tubes will be found quite satisfactory. Do not attempt to use a 200 type tube, as this will overload the filament resistance. The detector socket is the socket on the extreme right, as seen when facing the front of the set.

The last audio-frequency stage is provided with extra "B" and "C" battery terminals, so that a power tube may be used in this socket if desired. Good results will be obtained with 201-A type tubes in both audio-frequency stages. For for power tubes, if these are used. tion diagrams for RFL-75 instead ever, install a 112 or 171 type power eration is desired with this set largely a matter which may be left Aerial and Ground to the dealer's own judgment. Many the last stage with more than 135 use aerials that would be too long volts "B" battery, it is essential for satisfactory reception in more that a 1 to 1 ratio transformer be congested communities. used between the output posts and Wherever the greatest selectivit clear to the set owner that a even shorter than the minimum power tube, if used, should be put length suggested in the instruction

CONNECTIONS FOR SIX 201-4"

of connecting RFL-75 is exactly the volume control if he desires to de-90 connection diagram may be disdoes not show this arrow. In case tors, "1" and "2", and the "acumin-Two antenna posts are provided ting for the two acuminators for

these should be tried whatever kind ticular installation will be found. the loudspeaker, in order to avoid ty is desired it is recommended that of aerial is installed, and the one The station selectors may then be serious injury to the speaker. Make short aerials be used—as short or best results best results. the selectors and acuminators ad-Always caution the user to cut justed until the signal is loudest. in the socket marked by means of sheets. In many instances a length the wires between the "C" battery If necessary, the volume may then a white arrow on the sub-panel. of twenty to twenty-five feet, in- terminals before connecting "C" be reduced by turning back the vol-Further information about all of cluding lead in, will be found sufil- batteries to them, and to cut the ume control. these tubes recommended for RFL- cient. The RFL-90 is very sensi- wire between "B plus 90" and "B As each new station is received 90 may be obtained from the ar tive in picking up weak signals, plus 90 to 180" before connecting it may be logged, or recorded, on ticles on radio tubes which have and to get the most desirable se- a "B" battery across these termin- the selector drums.

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For the detector tube, use a 45 of those for RFL-90. The manner volt "B" battery. tube in the last audic stage. Whether to install a 112 type or a 171 type tube when power-tube op-tube manufacturers. As to "C" battery voltages, fol-low the recommendations of the tube manufacturers. As to "C" battery voltages, fol-tube manufacturers. As to "C" battery voltages, fol-low the recommendations of the tube manufacturers. As to "C" battery voltages, fol-tube manufacturers. As to "C" The instructions accompanying a white arrow at the left of the signal distortion may be traced to Crosley dealers have their personal these sets recommend aerials from terminal strip, which points to the preference for one or the other  $\alpha$  50 to 100 feet long. No definite last stage, audio-frequency socket. Tuning is come preference for one or the other is to to to too test tong. The next stage, audio-irequency sources Tuning is accomplished by means these tubes, and each has its ad-inst state because the next stage, audio-irequency sources. Tuning is accomplished by means of the two drum-type station selecshould be remembered, however ent localities. In country districts of doubt, follow the diagram shown that if a 171 type tube is used in it will often be found advisable to here.

## Model R. F. L.-90-Part I, Installation and Operation (Part II Will Describe the R. F. L.-90 Circuit in Detail.)

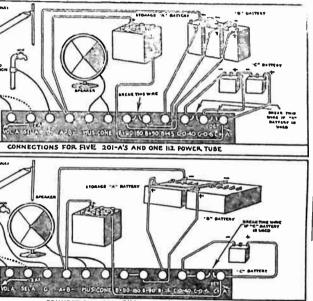
Storage-battery type tubes ou'

For all amplifier tubes except power tubes, use a 90 vol: "B" bat- Connections

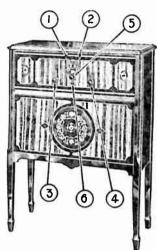
appeared in the last three issues | lectivity with it in districts near broadcasting stations short aerials are necessary. Every Crosley dealer should study his local condi-

In installing the ground, the gen eral recommendations made in past Crosley service articles and in instruction sheets should be followed.

er "B" voltage than this on radio- duced from the latest instruction frequency stages. Follow the tube sheets, is shown herewith. A few manufacturers' recommendations instruction sheets for this set were with regard to "B" battery voltages sent out which showed the connec-



on the terminal strip. Both of picking up stations with any par-



als. Occasional instances are reported from time to time of users who have ruined "B" or "C" batteries by not following this rule. Tuning

There is no rheostat control for adjusting the filament current on these sets. The regulation of filament current is automatically taken care of by ballast resistances in the circuit. To turn on or turn off the tubes it is merely necessary to pull out or push in the filament switch "6", shown in the accompanying drawing.

To control the volume, a rheostat is provided in the filament circuit of the first radio-frequency tube. Caution the user to keep this volume control "5" turned on all of the way while he is tuning to stations. Fans frequently pass over stations by tuning with the volume control turned off. The user should also be instructed to tuin off the common practice among radio-set owners, is often a cause of distor-

ators" "3" and "4". With some

# " Every radio listener must have a ···· ERESEEY-Musicone



Every radio listener needs a Crosley Musicone, regardless of the type of receiving set used. Good reception is greatly improved. Development of the Super Musicone, illustrated at the left, has amazed and delighted hundreds of thousands of listeners. You, as dealers, realize the wonderful qualities of this reproducer, but you must convince your customers that it excells anything on the market. This can be done very easily. Demonstrate the Super Musicone. Send salesmen to the home of every radio listener in your neighborhood. Let him demonstrate this reproducer, in comparison with any loud speaker, regardless of price. The difference is so great, the listener will become interested immediately. There is no reproducer that can compare with the Musicone. And it costs but—

# The New 12 Inch Ultra Musicone

Many listeners desire a smaller reproducer than the Super Musicone, and still want one just as good. To meet the requirements of these people, the Ultra Musione has been developed. The actuating unit—and the actuating unit is the real secret of the success of the Musicone—is exactly the same as that in the Super Musicone. The only difference is that the cone is but 12 inches in diameter instead of 16 inches, as in the Super.

# **Beautiful Musiconsole For Every Table Radio**

The Musiconsole is needed by every owner of a table radio. It serves as a beautiful stand for the receiving set, has compartments for batteries and, above all, has a genuine Crosley Musicone neatly hidden behind a silken screen.

