

Best Ways to Eliminate Interference

Radio Digest

TWICE
A MONTH

PROGRAMS
Illustrated

FIFTEEN
CENTS

FIRST DECEMBER NUMBER, 1926

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Vol. XIX No. 4

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\$26000⁰⁰ IN PRIZES
Whozit

*How to Build Bruno Regenatrol Set; New Accessories; Woman's Page and Programs;
List of Stations in Order of Wave Lengths; Lady Listeners Love Lester of WOAW*

WHOZIT POPULAR HIT WITH ALL LISTENERS

FANS CLAMOR FOR PRIZES FOR SOLVING PICTURES

Not Too Late to Start—November 15 Issues Available—\$26,000 in Prizes Offered

(Rules for WHOZIT on Page 18)

Off with a WOW! Twenty-four great broadcasting stations scattered across the continent send in that universal report for the beginning of the Radio Digest's new national Radio game—WHOZIT.

Enthusiasm is running at the highest level. Everybody's doing it. It's the greatest craze that ever struck Radio in the history of popular broadcasting. These are few of the expressions in letters that have been received in the Radio Digest editorial rooms.

No effort has been made to check the exact number of Whoziteers playing at each station. The task would be almost too great to attempt. But figures from the centers where the stations are located indicate that there are many thousands who have cut out and pasted together their first pair of Whozits. These were published in the mid-November Radio Digest.

Many Valuable Prizes

Now we have another forty-eight Whozits in the first December issue—two Whozits from each of the twenty-four broadcasting stations. At the top of this page will be found a complete list of the stations broadcasting the Game of Whozit and the time of day when they may be heard presenting the Whozit game.

Here is the chance many Radio listeners have been waiting for. Radio Digest offers \$26,000 in prizes for the listeners who score the highest in playing the eight games of Whozit. The rules and conditions are published in full on page 18. One thousand dollars in prizes goes to the listeners of each of the Whozit stations. Besides that there are two grand prizes of \$1,000 each. The leading prize at each station is \$500 in gold. Whozit winners may find here just the little capital required to start the payment on a home or to begin a business enterprise. It is to be gained by a careful and consistent playing of the game, and the game is not hard.

How Listeners Play Game

Just a word of explanation to those who may not have heard the air announcements or read previous announcements in Radio Digest:

In each of eight consecutive issues of Radio Digest, beginning with the November 15 issue, there will appear forty-eight Whozit pictures, sixteen to a page and two Whozits to a station. In all there will be sixteen Whozits from each station. The listener will take a copy of Radio Digest and tune in his nearest Whozit station at the Whozit hour. (See schedule of Whozit broadcasts above.)

He will then be told to turn to a certain page and in a certain location find a specially described pair of eyes, a style of hair, turn of mouth or cut of a chin. He will compare these descriptions with features shown in the segments. Each Whozit will be found to be made up of the features of two or more persons joined in four segments.

By following the instructions of the broadcaster he will be able to separate the segments and reassemble them so that all four segments belong to the same individual. That's the game. Play it and win one of the many valuable prizes.

Stations Give Free Help to All

Each station will furnish information by letter or telephone to those who were unable to listen in during the broadcast hour. This is to assist those who are seeking the special \$1,000 grand prizes by solving the most Whozit pictures from all stations in the game. Five facts must also be named about each Whozit artist.

How many Whoziteers checked 100 per cent in identifying their first two Whozits? That would be an interesting thing to know. But it will remain a secret until all the Whozits have been solved. The main thing now is for every listener to begin checking and putting to one side the identified Whozits from each issue toward a prize at the finish.

How Stations Make Whozit Interesting

Various methods of presenting the "Whozitation," where the artist is described over the air, have been performed from different stations, but one of the most interesting is the club idea. A Whozit club is organized with the Whoziteers at one end of the "lodge room" (at their sets) and the studio staff at the other end (in the studio). The chief potentate sits in the middle and the Whozitating neophytes who are about to be initiated are led around the room to the sound of barbarous music until finally they are halted in front of the Great Whozit who puts them through a category of questions preparing them for full-fledged membership.

Of course these questions and answers

WHOZIT SCHEDULE DECEMBER 1-15

Eastern	Central	Mountain	Pacific	Eastern	Central	Mountain	Pacific
12 n.	11	10	9	9:30 p.m.	8:30	7:30	6:30
WHT (399.8) Daily except Sundays.				CKY (384.4) Monday, Wednesday.			
WMAK (265.6) Daily.				WHB (365.6) Tuesday, Thursday.			
6:45 p.m.	5:45	4:45	3:45	10	9	8	7
WOAW (526) Daily.				WHK (272.6) Mondays, Wednesdays.			
7	6	5	4	WSOE (241.8) Monday.			
WOC (483.6) Daily.				10:15	9:15	8:15	7:15
7:15	6:15	5:15	4:15	KOA (322.4) Thursdays.			
WMAK (265.6) Daily.				WMCA (340.7) Thursdays.			
7:30	6:30	5:30	4:30	10:30	9:30	8:30	7:30
WHK (272.6) Fridays.				WMC (499.7) Thursday.			
WMCA (340.7) Fridays, Saturday, Dec. 4.				11	10	9	8
7:50	6:50	5:50	4:50	KMOX (280.2) Daily.			
WJAX (336.9) Daily except Thursdays.				KTHS (374.8) Daily.			
8	7	6	5	WHK (272.6) Tuesdays.			
KVOO (374.8) Daily except Sundays.				WHT (399.8) Daily except Monday.			
WHT (399.8) Daily ex Sun., Mon.				WLW (422.3) Daily except Friday.			
WMCA (340.7) Wed., Dec. 1; Sun., Dec. 5.				WOOD (242) Daily.			
8:30	7:30	6:30	5:30	11:30	10:30	9:30	8:30
WPG (299.8) Dec. 6 and 13.				KJR (384.4) Daily.			
8:45	7:45	6:45	5:45	WMAK (265.6) Tuesday.			
WHB (365.6) Mon., Wed., Fri.				12 m.	11	10	9
9	8	7	6	WHT (399.8) Daily except Monday.			
CKY (384.4) Thursday, Saturday.				WJR (516.9) Saturday.			
KPRC (296.9) Daily except Friday.				12:05 a.m.	11:05	10:05	9:05
WHT (238) Daily except Mondays.				WHK (272.6) Saturdays.			
WJR (516.9) Monday, Wednesday.				1	12	11	10
WPG (299.8) December 3 and 10.				KVOO (374.8) Mon., Thurs., Sat.			
WSM (282.8) Mon., Wed., Fri., Sat.				WHB (365.6) Sunday.			
9:15	8:15	7:15	6:15	1:15	12:15	11:15	10:15
WNAC (431) Wednesdays.				KFWD (252) Daily.			

include enough personal description (not counting the comedy) to permit the listening Whoziteer to check off the segments so that he may reassemble them to count on his score for one of the big prizes for the most accurate and best assembled sets.

Club Idea Is Popular

The Whozit Club idea was first reported by R. E. Stewart, director of WMAK, Buffalo, N. Y. His letter describing the plan stated that WMAK expected to have 1,000 members by January 1. Each member receives an illustrated membership card entitling him to all the rights and privileges of the Whozit Club and declares him to be in "good and regular sitting." It might be suggested that such a card bear the portrait of the Great Whozit.

Listeners are also organizing to play the Game of Whozit. They have their meetings at homes of members, going first to one home and then to another on the certain nights when the local station broadcasts its Whozit Hour. Together they follow the instructions that come

over the air and compete to see which shall assemble his pair of Whozits first. The first letter outlining this plan came from Miss Fern Nelson of Omaha, who listens to WOAW.

November 15 Copies Available

All specific information concerning the game may be found in the rules published on page 18. For the benefit of those who missed out by not getting the first Whozit gallery in the November 15 Radio Digest, it may be possible to get copies from the local news dealer. If his supply is exhausted there are a few extra copies of this November 15 issue obtainable from Radio Digest, 510 N. Dearborn st., Chicago, Ill.

But whether or not you have the first issue, do not fail to play the game with the issue now in your hands. Whether you go after a prize or not you will find it highly amusing and instructive, and acquaints listeners with their favorite artists and announcers.

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Looking Ahead

Of Course, There Will Be the Third Section of Whozits next issue. The game is being adopted nation wide as a winter pastime. Start it now!

Mr. Calcaterra Will Give Actual Constructional Data on Regenatrol. It will pay you to make this set.

Then There Will Be More New Accessories pictured and described next issue. Another feature which will appear December 15 or soon thereafter is an illustrated page on WHK, of Cleveland. Cleveland fans, watch for this.

No, the "Evening at Home Table" Has Not Been Discontinued. It will be back soon. And when Congress gives Radio an adequate control law, the regular broadcasting directory will be resumed.

Special articles about broadcasting stations and artists, with photographs, and NON-RADIO fiction 5,000, 10,000 and 30,000 words in length are desired. No manuscripts accepted unless typewritten and prepaid, or returned without return postage being inclosed. All manuscripts are sent at owner's risk.

Newsstands Don't Always Have One Left

WHEN YOU WANT

Radio Digest

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BE SURE OF YOUR REGULAR COPY BY SUBSCRIBING NOW

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Publisher Radio Digest, 510 N. Dearborn St., Chicago, Illinois.

Please find enclosed check M. O. for Three Dollars (Four, Foreign) for One Year's Subscription to Radio Digest, Illustrated.

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SHORT WAVES

By Marcella

Norman Brokenshire Located; Ted Nelson; Julius Walter; Sen Kaney AWOL; Eddie Loftus; Jerry Sullivan in Person; Walter Newell; M. C. Bennett; Goldy and Dusty's Real Names; John Patt at WJR; "Eighty Pound" Charlie Schultz.

ATTENTION all ye faithful and persistent inquirers regarding the whereabouts of one Norman Brokenshire, I bring ye glad tidings. The lost has been found. So kick the fatted calves and set the merry dials. Margaret Santry, writing from WPCH, Park Central Hotel, New York, N. Y. says: "Mr. Brokenshire has severed his connections with the Arrow Amusement company and is now a full time member of our staff (formerly WFBH). However, he is planning at this time the establishment of an Artists Booking Bureau which will be conducted in connection with this station. Norman has also lately ventured into the song-writing racket." Horrors! That word "racket" sounds like something criminal! But, anyway, the first song is entitled "Believe, Beloved, in Me." Besides many others I know this will be welcome news to Frances of Poughkeepsie, Mary of Allentown, Ruby of Burlington and Dee of Canaan. Our latest information is that WPCH rides the 272.6 wave. The man with the pipe is Norm.



I wish I could print all of Dee's letter, it's so droll and girlish. She says that Norman is almost the "onliest man" who ever inspired her to verse although she is not especially an admirer. This is the verse:

*"My, ain't that mouth got words—
A loose vo-cab-u-lar-y!
Little words that mean a lot,
Big one's that are tommy-rot,
Middlin' sized ones that are not
In any dik-shun-ary!"*

And while she asks about Norman it happens that she inquires in the same letter for Alvin Hauser, formerly program director at WFBH. Maybe Miss Santry will send me that information too.

Betcha can't guess who is the new and proud associate director of WMCA, Hotel McAlpin, New York City? Yep, Ted Nelson.



I just knew Ted would get there because he's that kind of a fellow. Ted doesn't dominate the mike but he has a voice—and that isn't all. He's a go-getter. After he graduated from Columbia in 1919 he had notions of becoming an M. D. but the urge was in him to perform public service in a big way. He started out on the city staff of the New York American. Thus he was swept into the channel of Radio broadcasting and became associated with WMCA almost at its inception. From one promotion to another he finally achieved his present status. Now, this is the interesting part for the readers of my column: Ted is a handsome, alert, progressive youngster—never been married and says he's never going to be. But, we've all heard that talk before. He has black curly hair and moustache, dresses like a dandy, carries a stick, can dance divinely and prefers blondes. One of these days some fair listener is going to walk right up and tune Ted Nelson into Mendelssohn's Big Parade and—I'll tell you all about it right here.

Yes, Sh-hhh- whisper, please. You were right, Mr. and Mrs. Leslie P. Mann of Le Mars, Ia. I heard him at WEBH, just as you did. And—but don't you breathe a word of this—he's there all right. He's broadcasting but he says he doesn't want it to get out in the papers that he's there. Mum's the word.

Here is a picture of Julius Walter, KGW staff pianist, and I know this will please Ruth immensely who lives in the same town with him at Portland, Ore., and she's never even seen him although he is her favorite Radio artist. Julius is slightly girl shy although he secretly adores them one and all. He is single and twenty-four years old. He is dark with blue eyes and is of Bohemian lineage. He has been with the KGW station eighteen months, directs orchestras and trios and they tell me his favorite hobbies are "the ivories and his Moon (meaning his sport car)." There are various ways of taking that "Moon," Ruth, as the little flower said to the bee.



Dear Jack at Denver: Your "Old Timer" friend at KYW was none other than that (Continued on page 17)

INTERFERENCE DISGUSTS PEOPLE

QUEEN MARIE MAKES ADDRESS OVER WCCO

HER FIRST STUDIO BROADCAST MADE IN ST. PAUL

Regal Visitor Honors Twin City Station—Registers Her Surprise at Luxurious Studio Equipment

MINNEAPOLIS.—Queen Marie of Rumania made her first studio broadcast on October 31, when she talked to the Northwest from the studios of the Gold Medal station, WCCO, in the Union Depot, St. Paul. It was the only public speech she made during her stay in the Twin Cities.

The Queen was prepared for what might be termed her official Radio debut in the United States for she had written her speech. After brief instructions from the studio attendants, she sat down before the microphone and began as follows:

"I love America. I am glad to come to the great American Northwest and greet men and women interested in agriculture and its allied industries. Roumania is largely a farming country and my people meet the same problems you of the Northwest meet.

Interested Greatly in Agriculture

"One of the reasons for my desire to see your country was to find out first hand how you are meeting these agricultural problems and how you have built up your remarkable transportation system, which I have heard so much about, and how you have developed your flour mills and other industrial enterprises kindred to farming."

At the conclusion of her talk the members of her party, including Mayor "Larry-Ho" Hodgson of Saint Paul, and others, made ready to leave for the state capitol, but the Queen wanted to talk about Radio.

"You know," she said to H. A. Bellows, director of WCCO, "that is the first time I was inside the studio of a broadcasting station. While I have broadcast many times before, it has always been, I believe, by what you call remote control; in other words, it was at a banquet or some other function at which the microphone was simply placed in front of me. I had no idea that the studios of a broadcasting station were as luxuriously equipped as this. Radio is certainly a wonderful thing."

The only places which Queen Marie officially visited in Saint Paul and Minneapolis were the capitol in Saint Paul, the Art Institute in Minneapolis and the Gold Medal Radio station, WCCO.

Light Five Candles on KYW's Birthday Cake

Old Timers Repeat Acts for Anniversary Program

CHICAGO.—A "wow" of a program was broadcast Armistice night from the Congress studio of Westinghouse Station KYW, when that station burned five candles on its birthday cake.

The program was made up of artists from all three KYW studios. Many of the old timers of KYW were on the air. The listeners were reminded of the old Victrola days when Walter Evans, Wilson J. Wetherbee, Harold A. Fall and others used to do their bits.

Eddy and Fannie Cavanaugh, the Gaelic Twins, sang an old comedy sketch that they first put on KYW five years ago. Art Linick, comedian; Uncle Bob, bedtime story teller; the Original Harmony Girls—Edith Carpenter and Grace Ingram; the Niellson String Trio, the Apollo Male Quartet, Bobby Brown and his overseas Uke, Ray Hibbler, Louise Vernet, Lucille Long, Lewis Meehan and Arthur Wellington contributed to the success of the evening.

KHQ LINKED TO EIGHT STATIONS FOR PARTY

Spokane Celebrates Anniversary With Great Program

SPOKANE, WASH.—A recent celebration commemorating the first anniversary of the establishment of Station KHQ, here, consisted of twelve hours of continuous broadcast through nine stations.

KHQ had a special tieup for the celebration by direct wire with eight other broadcasting stations. These were KFOA, Seattle; KGW, Portland; KSL, Salt Lake City, Utah; KLZ, Denver, Colo.; KFKX, Hastings, Neb.; WHO at Des Moines, Iowa; WBBM, Chicago, and KOWW, Walla Walla, Wash.

LATE "WHOZITEERS" CAN GET LAST ISSUE

THOSE readers of Radio Digest who were unable, because of the large demand for copies of the last issue, to obtain one, may have one mailed to their home address by sending fifteen cents in stamps or currency to the offices of this publication at 510 N. Dearborn St., Chicago. The beginning of the "Game of Whozit" with the last issue, the second November number, caused a shortage of copies, but a limited supply is still available. Persons subscribing for one year (\$3) may have their subscriptions started with the second November number.

WHOLE TOWN SENDS KOA TRUCK OF MAIL

DENVER.—Mail from a whole town for KOA! Fort Collins wrote it, a truck delivered it, and a special office force answered it—a sea of letters deciding what football game the General Electric station would broadcast. Several weeks ago KOA announced that listeners should decide which contest would be broadcast. A wide-awake paper in Fort Collins, alive to the publicity it offered the town, published a front page appeal for every citizen to write KOA asking that the Colorado Aggies-Utah Aggies clash be put on the air. It was.

AL SMITH'S DAUGHTER GOES ON AIR



Mrs. John Warner (Emily Smith), wife of Major John Warner of the New York State Police and daughter of Governor Alfred E. Smith, made her Radio debut recently at WGY, the eastern station of the General Electric Co. Mrs. Warner spoke on behalf of the State Charities Aid Association and explained what the association is doing to provide homes of proper environment for orphans. Like her famous father, she has the power of holding her audience's attention.

Whozit Correction!

The names of both WMAK, Buffalo, Whozit artists published in last issue on page 7 were in error through no fault of WMAK. The name of the station manager, given beneath the bottom panel of pictures on page 7 as "A. T. Erisman" should have read A. J. Erisman.

Again, the name of the woman artist, given below the second panel of pictures on page 7 as "Grace Sande" should have read Grace Sandel.

These two errors, if turned in by readers solving the WMAK series of Whozits, will not be counted as incorrect inasmuch as this publication made the original error. The correction is given herewith merely in the interests of accuracy.

WCFL PREPARES FOR OFFICIAL DEDICATION

Many Notables to Be Present Saturday, Dec. 11

CHICAGO.—WCFL, owned and operated by the Chicago Federation of Labor, and the only station in the United States built, owned and operated by its listeners who pay one dollar a year for this entertainment, is about to celebrate its official opening dedication ceremonies.

This notable occasion will take place on Saturday, December 11, at the Ashland auditorium, here, and the dedication speech will be made by William Green, president of the American Federation of Labor. He will be assisted by Frank Morrison, secretary of the A. F. of L. Other speakers to be heard are Governor

FANS TIRE OF BOTHERSOME RADIO NOISES

Interference Survey Brings Censure of Inferior Broadcasters

Seek Immediate Remedy

(See Article on Page 7)

That the majority of listeners of this country and Canada are sick and tired of the congested, noisy condition of the ether, is brought to light in a preliminary study of the many thousands of survey report blanks and accompanying letters returned by Radio fans in the National Survey of Radio Interference, now being conducted by Radio Digest.

The listeners have about lost patience with Radio. Many are unwilling to invest more money or time in it. Few dare recommend Radio now to their friends.

Almost unanimously the survey shows that listeners had better reception before than since the new station-licensing, power-increasing and wave-changing orgy brought about by the break-down of the 1912 Radio law.

By an overwhelming majority the survey blanks censure those broadcasters which have taken advantage of the present lack of government control by adopting wave lengths conflicting with those of pioneering, established stations which formerly had become known for their high quality program presentations.

Perhaps It's Dissatisfied Minority

In analyzing the survey, the fact that over five million receivers are now in use has been taken into account. Not even one hundred thousand report blanks have been filled in by listeners. Perhaps the blanks are coming from a dissatisfied minority, but at any event, the survey indicates most abominable conditions.

Statistics typical of the entire United States and Canada will be available before the survey is completed, for daily newspapers in nearly every city of both countries have joined hands in the Radio Digest national interference survey. By the help of the daily papers a possible return of over a million survey reports is forecast.

If you are one of those listeners who have failed to report, send a stamped self-addressed envelope to Radio Digest with the request that one or several of the survey blanks be sent to you. These are free of charge. The aid of local Radio clubs and electrical societies is sought in this campaign. Radio dealers are also helping by distributing the survey blanks among their customers.

What Some Listeners Say

Interesting and significant comments are made by listeners on their blanks and in letters. From Hibbing, Minn., comes this:

"I would like to see the suspension of all new stations and all stations that have adopted new wave lengths without any regard to stations already using them."

And a reader from St. Joseph, Mich., remarks:

"Personally, I have spent all the money on Radio I will, until I see evidence of government control. I have an expensive set but I am having plenty of trouble, and so is everyone else I know."

Then read this from Lexington, Ky.:

"With all the A-1 stations on the air, it seems a pity that another station can 'wildcat' in on their wave lengths and not only ruin programs from good stations, but fail to get its program, more often of a mediocre nature, over either."

Before signing off, here is an excerpt from a final letter from Deep River, Conn.:

"I invited friends in the other evening who were going to invest in a Radio. When they heard a sample of what was on the air and how difficult it was to get good programs clean and clear of heterodyning, they decided they would wait before buying."

Len Small, of Illinois, Mayor William Dever, of Chicago, John H. Walker and V. A. Olander of the Illinois State Federation of Labor, and John Fitzpatrick and Edward N. Nockels of the Chicago Federation of Labor.

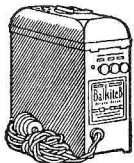
Mr. Nockels promoted and organized WCFL and is now its general manager.

The new Balkite Combination supplies all radio

power automatically from the light socket



U. S. PATENT, OCT. 12, 1926



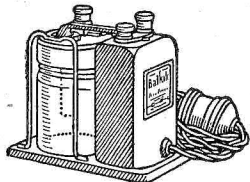
Balkite "B"

Eliminates "B" batteries and supplies "B" current from the light socket. Three models. Balkite "B"-W at \$27.50 for sets of 5 tubes or less requiring 67 to 90 volts. Balkite "B"-X for sets of 8 tubes or less including power tubes—\$42. Balkite "B"-Y for any radio set—\$69. (In Canada: "B"-W \$39; "B"-X \$59.50; "B"-Y \$96.)



The New
Balkite Charger

MODEL J. Has a low trickle charge rate and a high rate for rapid charging. Can thus be used either as a trickle or as a high rate charger. Noiseless. Special model for 25-40 cycles. Price \$19.50. West of Rockies \$20. (In Canada \$27.50.)



Balkite Trickle Charger \$10
MODEL K. Can be left on continuous or trickle charge thus automatically keeping the battery at full power. Converts your "A" battery into a light socket "A" power supply. Rate about .5 ampere. Price \$10. West of Rockies \$10.50. (In Canada \$15.)

All Balkite Radio Power Units operate from 110-120 volt AC current with models for both 60 and 50 cycles. Also special model of the Balkite Charger for 25-40 cycles.

Now you can operate your radio set from the light socket. Merely by adding the new Balkite Combination Radio Power Unit. Once connected to your "A" battery and set and plugged into the light socket, it supplies automatic power to both circuits. You need not even turn it off and on for it is controlled by the filament switch already on your set and is entirely automatic in operation. Whenever you turn on your set you will find it always ready to operate with full even silent power. It will give you a constant quality of reception to be secured in no other way.

Balkite Combination can be installed in a few minutes, either near the set or in a remote location. Small and compact, it occupies very little space. Like all Balkite Radio Power Units it

has no tubes, nothing to replace or renew, is a permanent piece of equipment, and is built to conform with the standards of the Underwriters' Laboratories. It is noiseless in operation. It will serve any set now using either 4 or 6-volt "A" batteries and requiring not more than 30 milliamperes at 135 volts of "B" current. This includes practically all sets of 8 tubes or less, including power tubes. It operates from 110-120 volt AC current with models for both 60 and 50 cycles.

Add Balkite Combination to your radio set and convert it into a light socket receiver. Know the pleasure and convenience of owning a set always ready to operate at full power. Price \$59.50. [\$83 in Canada.] Ask your dealer. Fansteel Products Co., Inc., North Chicago, Ill.

Hear
WALTER DAMROSCH
and the
NEW YORK SYMPHONY
in your own home over
any one of 13 stations

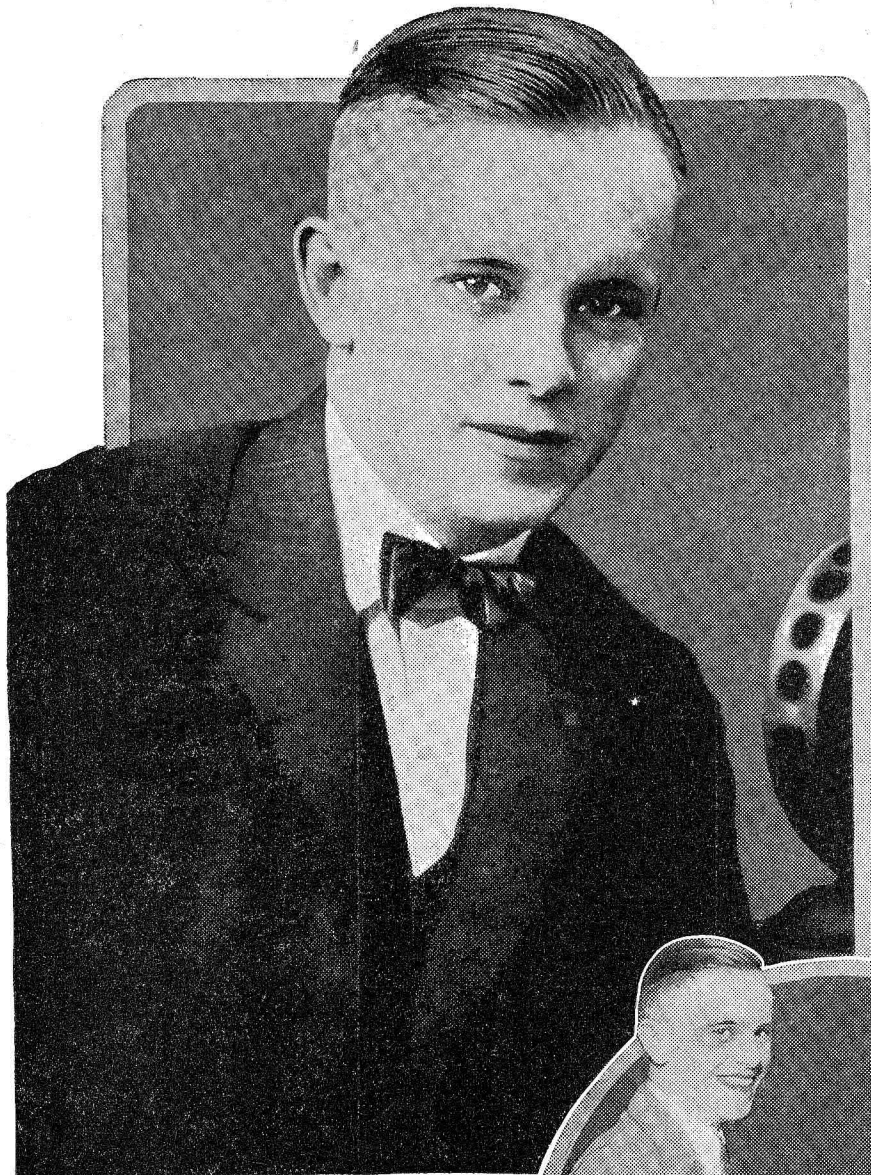
Every other Saturday night a symphony concert. On alternate Saturdays one of Mr. Damrosch's popular piano recitals on the great Wagner Music Dramas. Over stations: WEA, WEEL, WGR, WFI, WCAE, WSAI, WTAM, WWJ, WGN, WCCO, KSD, WDAF, WOC.

Balkite Hour
9 P. M. Eastern (8 P. M. Central)
Standard Time.

FANSTEEL
Balkite
Radio Power Units

Lady Listeners Love Lester

GIRLS and Married Ladies All Take a Shine to "Judge" Palmer Who Announces at WOAW, Omaha. He Answers with Form Letters.



than anyone else on the air, in fact, the prince of my dreams, seen through the film of fancy, seems to have adopted your voice and line. However, I'm reputed to be quite—sensible, and it's always best to live up to one's reputation, and since that particular quality is the only one of the many unattainable qualifications of the master of my fancies, being desperately in love with you over the Radio isn't going to hurt me in the least.

I like both your songs, "Truly I Do", and "Won't You Believe in Me".
Next time Helen (my chum) and I go out to Omaha we are going to have..... (know him? He's president of the.....Bank) take us up to the studio. It'll be just my luck, though, for you not to be there, I suppose.

This is personal, L. P. You may have to make an announcement of my death if you mention it out loud that I have written what I have. Most girls have ideals of some sort, but few of them have the nerve to reveal them to a man who possesses some of the desirables, and I wouldn't either if I weren't positively certain that I would never see you. Anyway, you are probably married and have a bungalow, 'n everything.

Sincerely yours,
(Signed) SHEILA.

The above letter brought no present with it, according to records in L. P.'s files. But one of the fair married ladies who sent L. P. a love note enclosed a lock of her hair.

Another embroidered a silk handkerchief with his initials, "L. P." in the corner. Still another sent him five pounds of cheese, which, according to her letter, she made with her own fair hands.

A letter containing Spanish phrases, taken from L. P.'s files, told of a cake she had baked for the announcer, and how she would like to make all his cakes.

WOAW's Sunday morning church service was where another of these one-sided romances began, as indicated in the following epistle from Iowa:

Dear Lester: As I've heard your voice many, many times over the Radio, I have decided to write and tell you I'm in love with you.

I saw your photo in the "Third Anniversary Bulletin" you sent me. As it announces you to be a "confirmed bachelor" I might as well tell you I loved you before I saw it and I love you just as much since.

I always listen to the Sunday morning church service from WOAW. I enjoy it immensely as I sing in the choir of our church and I am interested in church music. I'm opening my heart to you, Lester, and I certainly would be delighted to hear from you.

Every night in the choir loft (my mother makes me go) I keep wishing I was home listening to you over our Radio.

Yours forever and lovingly,
(Signed) FLOSSIE.

Some of the girls have a hunch that L. P. is a gay deceiver. For instance, "Alice," writes from a far away state a letter in which she concludes with the wary sentence: "I want to ask you something, and then again I don't, so I suppose I had better not take any chances."

And observe this one from Gloria:
Dear Les: I have heard you are a bachelor, and I have "fallen in love" with your voice. I have wondered if you are as handsome as your voice is "silver-tongued." Please send me your photo in the envelope I am enclosing.

Sincerely, GLORIA.

Well, ladies, have you received your form letter yet?

Two views of the charming Lester Palmer at WOAW, whose voice over WOAW lures the hearts of fair listeners and brings him many "mash" notes.



By W. O. WISEMAN

Dear Miss.....:

I thank you for your nice letter and all the kind things you have said about our station and staff.

WOAW is always glad to hear from its listeners. It is the only way we have of measuring the success or failure of our efforts.

I shall be glad to hear from you any time in the future when you particularly enjoy our programs.

Sincerely yours,
(Signed) LESTER PALMER,
Director WOAW

P. S. If you will listen in at... p. m.,..., you will hear a selection dedicated to you.

THAT, dear ladies, is a love letter! It's a love letter from Lester Palmer, WOAW's chief announcer and program director.

It's a nice polite love letter. It says much and little.

It's a convenient love letter.

The way it's dictated is this—

Mr. Palmer turns to his stenographer and says: "Send her reply No. 1."

Now, girls, if you write a second love letter to the voice on the air, Mr. Palmer turns to his stenographer and orders: "Send her reply No. 2."

By this unique method "Les" Palmer believes he has solved a problem that has troubled many an announcer—married or single. Most every Radio announcer gets mash notes.

And then again, dear ladies, if you are persistent enough in your admiration of L. P., the mysterious voice, you may go clear through his category of form letters and get a real personal letter from Mr. Palmer—or his steno.

Many are the girls who become infatuated with L. P.

This secret came to light recently when friends raided his desk and found a handful of the "mash notes" he has received. Really, girls, Mr. Palmer is a very modest and even bashful man.

Attached to each letter was a carbon of L. P.'s reply (careful young lawyer that he is). No chance for any maiden fair to sue him for breach of promise!

The friends compared the letters and discovered that the replies were nearly all alike. And the steno let out the secret of the "form letter" replies.

Meanwhile, L. P. has acquired a padlock for his private files. What his reaction will be when he sees these letters in print—well, we'll give him a few days to cool off before we show him!

Here's just a sample of what L. P.'s friends stole before he procured the padlock:

Dear L. P.:

I have been enjoying your program this afternoon. I don't mind telling you I'm downright lonesome. I would rather hear you announce, L. P.,

"Well, I declare," laughed petite Virginia Swanson, as she looked over this batch of mail received by "L. P."



Better to be through a *Merston* ELECTRIC 30 MFD—Duotype CONDENSER

Make Your Old B Eliminator a Super B Supply



Your present B Eliminator can be vastly improved by connecting a Merston Condenser across the output voltage terminals. You will then get a wonderful tone quality from your radio receiver as the very large capacity of the Merston (30 mfd) will act as a reservoir to STORE energy to be on tap to instantaneously supply the heavy drains of plate current required by loud or long sustained notes. No doubt, you have noticed that although your B eliminator gives no AC hum you do not get that perfect reproduction of tones that was possible using new B batteries.

To simply filter out the light socket current hum is but part of the job. Eliminators must have STORAGE capacity to prevent "chopping off" the loud or sustained notes. Using a Merston Condenser for this storage capacity gives the quality of expensive storage batteries and does the work electrically rather than chemically. This in turn means there is no deterioration, adding of water, no elements to occasionally clean, no parts to be replaced, in other words a more SERVICEABLE device is at hand, as well as one providing amazing tone quality.

A famous Merston added to your eliminator or used as the principal capacity of any B eliminator enables your set to reproduce notes from bass to treble with astounding accuracy.

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Medford Hillside, Mass.

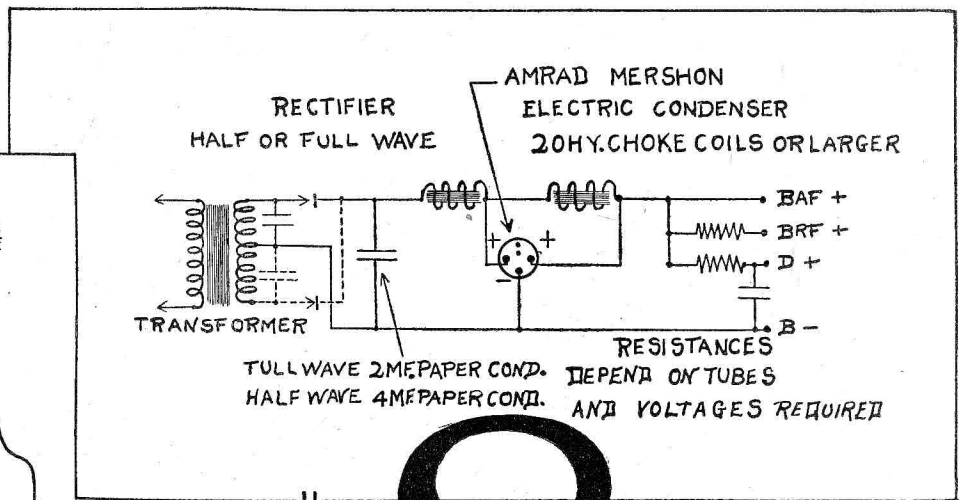
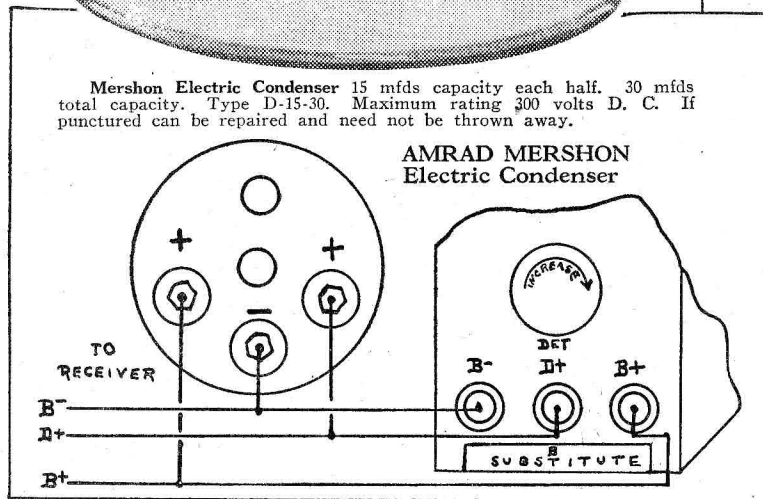


Diagram shows circuit plan for Super B battery eliminator when famous Merston Condenser is added.

Circuit for building B eliminator using a Merston Condenser as principal capacity.

\$ 8.

Write Dept. 3L6 if your dealer cannot supply

AMRAD

Battery type and light socket operated NEUTRODYNES

How to Eliminate Interference

CAN interfering stations be separated? Can two stations on closely adjacent wave lengths be separated? Can a receiver be made more selective so as to accomplish these desirable separations?

The answer is, "Yes." Two stations, so long as they are not on the same identical wave length, can be separated. Even when two stations overlap their carrier wave side bands (phrases novices need not worry about) a real selective receiver can affect a partially successful and sometimes completely satisfactory separation.

Receivers not built sufficiently selective to do these things can be made amply selective by the addition of special tuned radio frequency stages or filter devices, such as wave traps. The broadcast listener of today, beset upon every side by interstation interference, by power increases in populous vicinities, and by congestion of practically every known kind in the ether channels, is indeed in need of the most selective receiver he can procure.

Ways of Improving Selectivity

Again I call your attention to the fact that it is not necessary to have an expensive multi-tube receiver in order to gain that much desired selectivity or ability to separate many of the crowded together stations. Merely by providing your receiver with a few simple and inexpensive accessories, or perhaps improving your antenna system, the receiver you have been using may do the trick. At any event, the suggestions to be given here-with are worthy of a trial.

A brief resume of the various methods of increasing the selectivity of a receiver includes the use of short outdoor or indoor aerials, better ground connections, a stage of balanced and tuned radio frequency, wave traps (or high frequency by-pass circuits), good variable condensers, vernier controls, low loss inductances, shielded sets and a great deal of patience.

Patience in tuning a set is a remarkable aid to selectivity that is often overlooked by the beginning Radiophan.

Poor aerials and grounds mean a path of high resistance for the incoming Radio

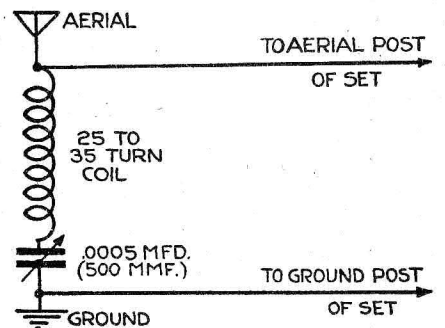


Figure 3

signals, with an increased loss of selectivity. In general it may be said that the lower the resistance of an antenna circuit (aerial and ground), the correspondingly higher will be the selectivity of that circuit.

Short aerials mean low resistance aerials. It is often wise, when selectivity is desired, to use an aerial not over sixty or seventy-five feet long, including the ground lead and lead-in in this length.

The ground connection is very important. This should be clamped or soldered to a cold water pipe which has been scraped or filed clean at the point of connection. The Ekko ground clamp is very good.

The aerial lead should be insulated well from contact with the house or window sill at the point where it is brought into the house. Porcelain tube, or other effective insulators should be used.

For the separation of local or nearby stations, without interference, the writer has used a short indoor aerial with much success. It might be well to have one of these available for use or experiment.

Penetrola One of Best Aids

Earlier in this article it was said by the

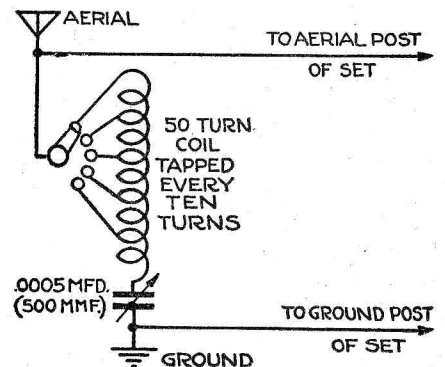


Figure 4

THERE'S Lots of It on the Air, But These Suggestions Will Really Help You

By EVANS E. PLUMMER

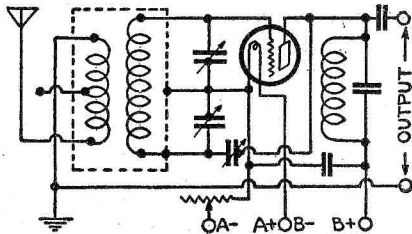
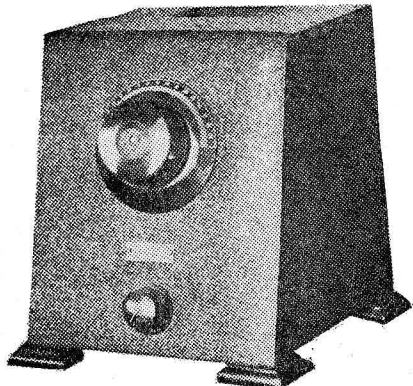


Figure 1, left, shows the Penetrola, a device which is of much help in making any receiver selective enough to tune out interfering stations. Above is figure 2, the Penetrola hook-up. The dotted line indicates shielding around coils.

writer that a special stage of tuned and balanced radio frequency could be applied to one's receiver to give it the required selectivity. One of the best, if not the very best devices on the market for this purpose is the Penetrola, made by the Walbert Mfg. Co., 937A Wrightwood Ave., Chicago. The Penetrola, used ahead of any receiver, is a revelation of surprises in Radio reception.

Not alone does the Penetrola make separation of interfering stations possible, but at the same time the unit ends the merciless blooming noises which your receiver may be sending out on the air without your knowledge. Penetrola also filters out the bloopings of neighbors' receivers to a remarkable degree.

The Penetrola unit is pictured in figure 1. Its appearance is such that it may be placed side by side with the best of receivers without seeming out of place. It may be had in either black crystalline or wood finishes. The Penetrola circuit, for those of you who are more technically inclined, is shown in figure 2.

Can Be Used on Any Set

Penetrola is built around the Isofarad circuit which is one of the balanced bridge arrangements which has proven very successful. It is made in such a way that it can be used with any receiver; non-regenerative, regenerative, tuned radio frequency, neutrodyne or super-heterodyne. It will increase the selectivity of any receiver and make it possible to tune in distant stations loudly and clearly in spite of local interference.

It will stabilize a set and make a ticklish one easier to handle. It is presented in this article also because it acts as a uni-directional or one-way repeater, allowing energy from the antenna circuit to be applied to the set proper, but not permitting energy from the circuit to be radiated in the form of squeals over a wide area.

Penetrola may be had either as a completed unit or in kit form ready to build. The essential parts are contained in the kit and include a twin variable condenser, canned coil, output choke coil, balancing condenser, socket, brackets and vernier dial. Full size drilling templates and directions for assembly are also furnished.

The operation and connection of Penetrola will not be discussed here, as these are explained in the directions supplied with the units or kits.

Wave Trap Usually Sure Cure

The wave trap, sometimes called high frequency by-pass or filter, about to be described, is one of the surest of methods of separating and eliminating one of two closely tuning stations, be they both distant or one distant and the other nearby. A wave trap consists essentially of a coil of wire (inductance) tuned either by switch taps (inductively) or by a variable condenser (capacitatively), which is placed in series or parallel with the coil. The device may either be placed in series with the receiver in the aerial lead, or in parallel with the receiver across the aerial and ground posts of the set.

One of the most efficient of these is shown in figure 3. It is connected in parallel with the receiver and is therefore known as the parallel type. The theory is that the wave trap circuit, when tuned to the wave length of the station not desired, will by-pass the signals from this station into the ground.

Efficiency Depends on Parts Used

The parts required for the trap are but two: a good low loss type variable condenser of .0005 mfd. (500 mmfd.) capacity and a 35-turn honeycomb coil, or equivalent low loss coil inductance. The two are

connected in series across the aerial and ground binding posts of the receiving set, and should be placed several feet away from the cabinet of the set so as not to be inductively coupled with the receiving tuner.

The efficiency of this arrangement is almost entirely dependent on the grade of apparatus used, so that it is advisable to use the best obtainable condenser and coil.

The coil can be made by the Radio fan who cares to dabble in such things. This is done by winding in a single layer 25 turns of number 24 d.c.c. wire on a 3-inch diameter or 35 turns of the same size wire on a 2-inch diameter paraffined cardboard, hard rubber or bakelite tube.

To make the trap even more effective, wind fifty turns of the wire on a 2-inch diameter, tapping every 10 turns. See figure 4 for method connecting taps to switch points. When using a trap of this type, always use as much of the coil as

possible in tuning to eliminate an interfering station.

How to Use Trap

To use the trap, after having connected it as shown and placed it at least two feet away from the receiver's cabinet, set the dials of your receiver where the desired station is heard, but is interfered with by the undesired station. Next, adjust the variable condenser of the wave trap until the interference has been reduced to a minimum, at the same time readjusting the receiver so that the desired station comes in as strong as it is possible to make it.

A little practice will soon surprise the most skeptical listener. In logging or recording dial settings so as to come back to a station when desired, it will now be necessary to include the reading of the wave trap dial along with the others.

Other Aids to Selectivity

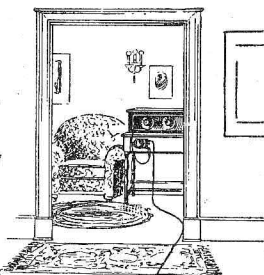
Low loss variable condensers and inductances, if not used in your receiver, should materially improve the selectivity if substituted for the less efficient variable condensers and inductances.

Super sensitive sets, such as the super-heterodyne or five tube Radio frequency designs, should have their cabinets (or coils inside) well shielded so as not to pick up interfering stations through the ability of the coils to act as effective aeri-als. Sometimes it is found good to shunt (place in parallel) heavy capacity (0.5 to 2 mfd.) fixed condensers across the A and B battery leads to the receiver, especially where these leads are over one foot in length. This prevents energy, so picked up, from going on through the receiver.

Of course, after all of the above remedies have been tried, there still remains that impossible problem—separation of two stations on the same identical wave length. This problem, until some new invention may solve it, remains for Congress to handle by passing legislation not allowing two stations from broadcasting on the same wave length at the same time. Meanwhile, write your Congressman and tell him that it cannot be done any other way. Perhaps he'll get the idea after a few thousand letters pile up on his desk.

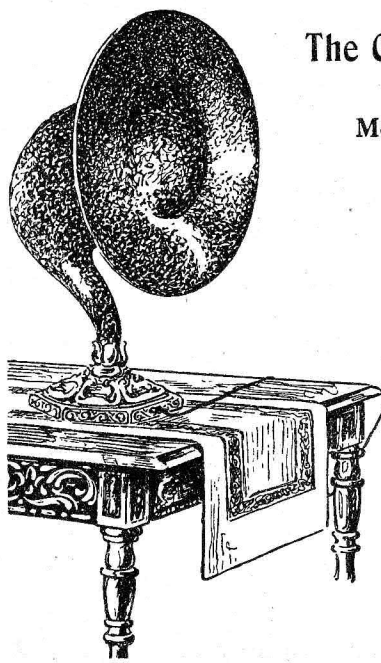
New!

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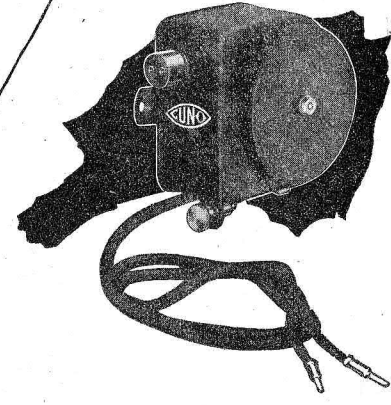


Loud Speaker Extension Cord

You'll want one of these real conveniences. With the self-rewinding reel, you can place your loud speaker where you want it; when not in use, keeps cord out of way and protects it. Button controls ratchet. If your dealer can't supply you, order direct. Price, complete, postpaid . . . \$3.50

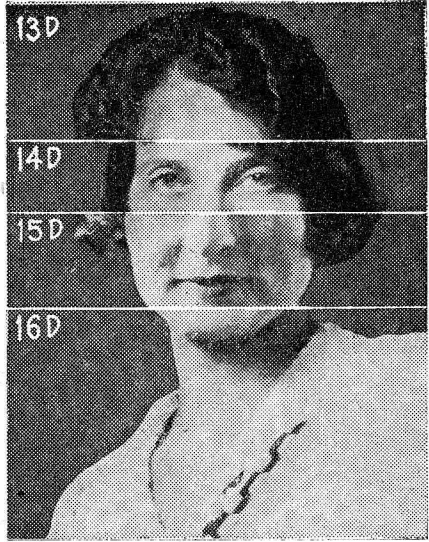
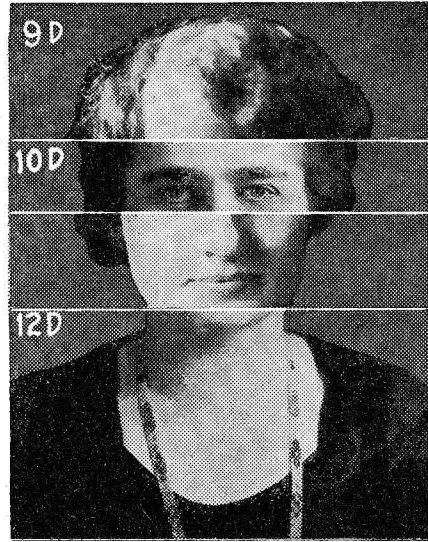
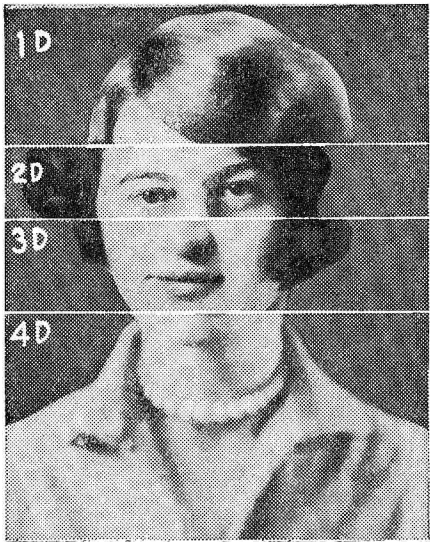


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90 South Vine Street
Meriden, Connecticut

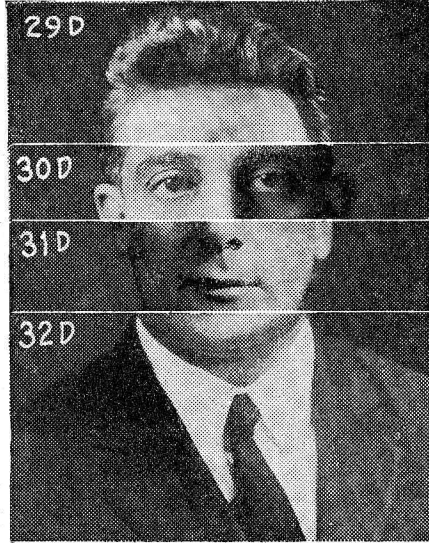
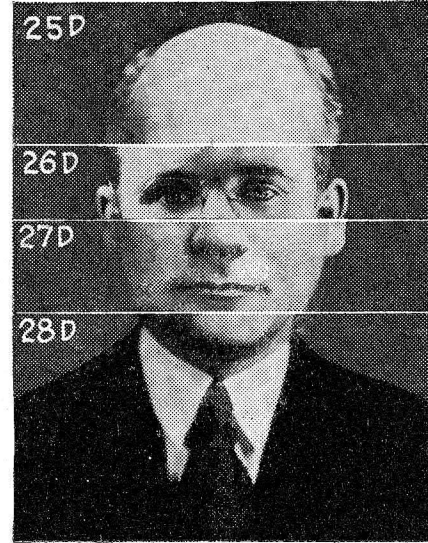
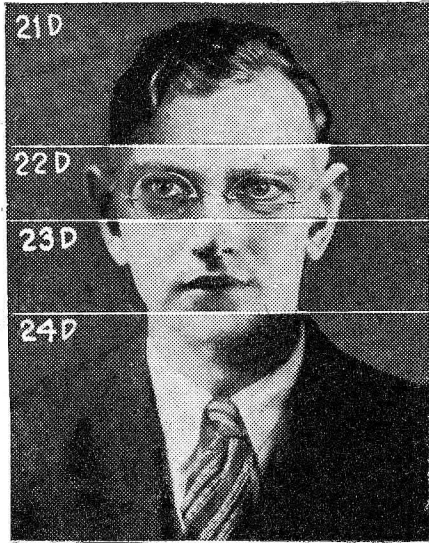


Handsomely finished in brown enamel and nickel, complete with 25 feet of high grade cord. Easy to attach with two screws. Well made and fully guaranteed.

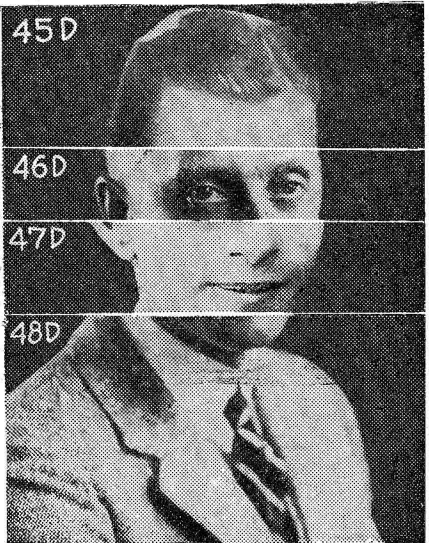
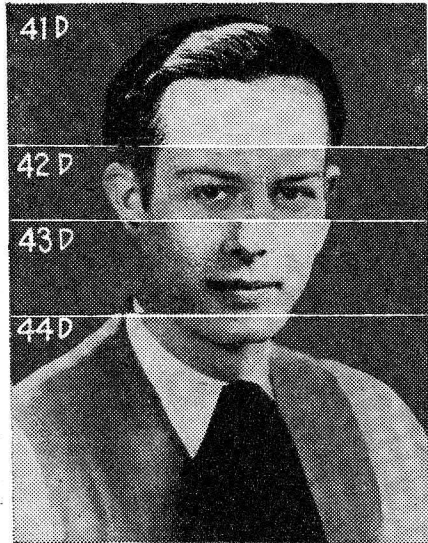
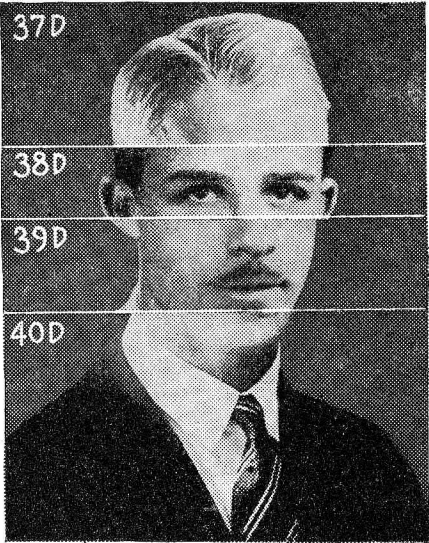
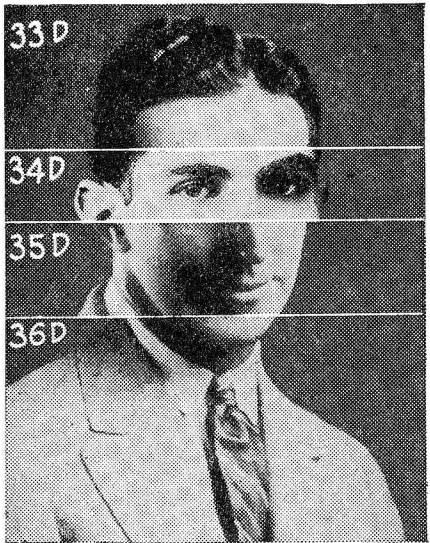
CUT OUT AND ASSEMBLE THESE WHOZIT PICTURES



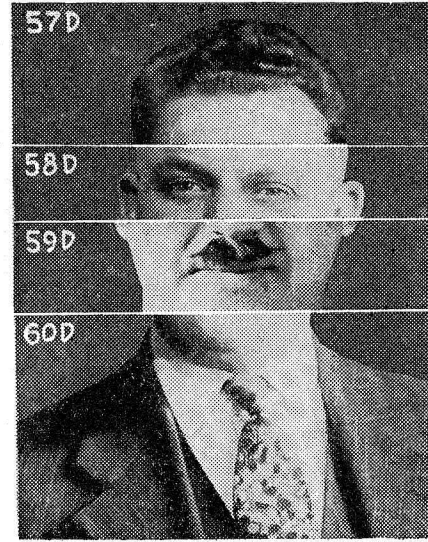
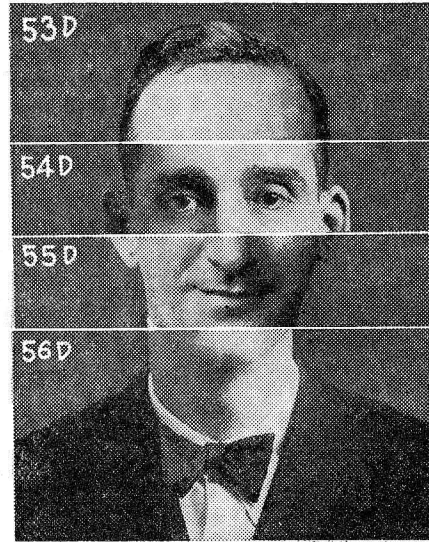
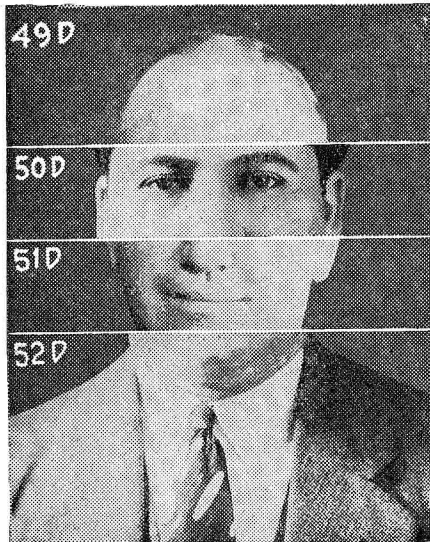
The following artists are in above panel: Ann Walsh, KMOX; Eva Thompson Jones, WSM; Elza Bloedle, WSOE; Johanna Grosse, WLW.



The following artists are in above panel: Ernest Hares, KMOX; Vito Pellitteri, WSM; B. M. Havens, WSOE; Rev. Jesse Halsey, WLW.

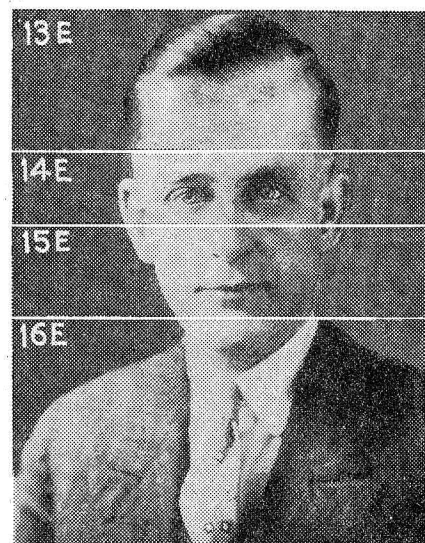
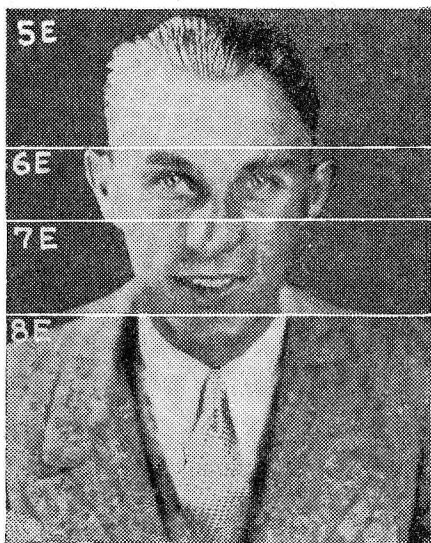
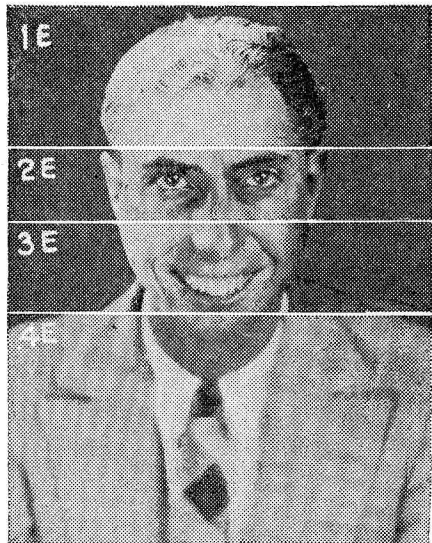


The following artists are in above panel: James Doty, WOAW; Hyman Shrier, WOAW; Eber Grubb, KOA; Stanley Hall, KOA.

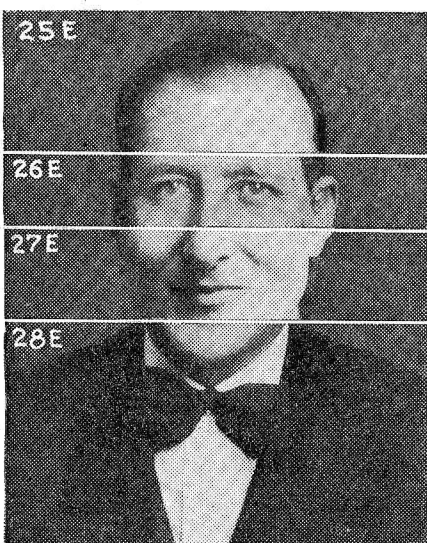
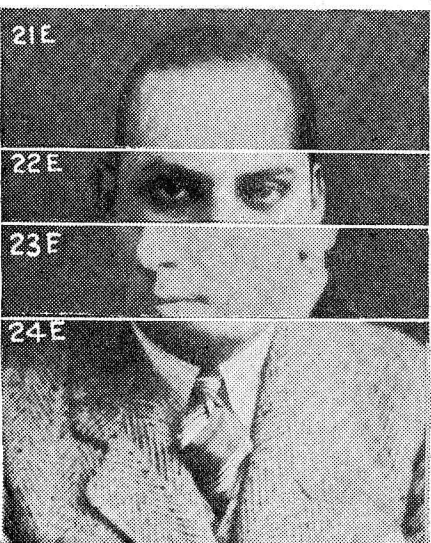
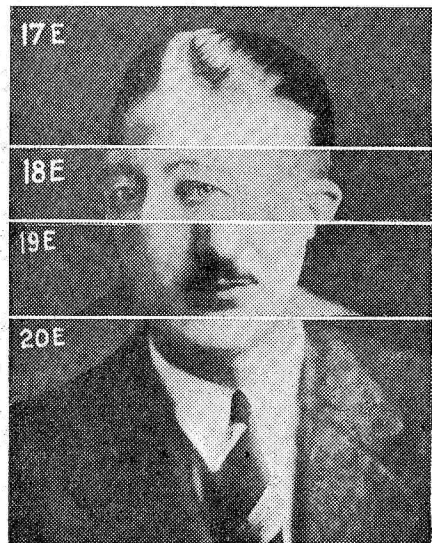


The following artists are in above panel: G. C. Arnoux, KTHS; Lon Chassy, KTHS; Harry Taylor, WHB; Don Anchors, WHB.

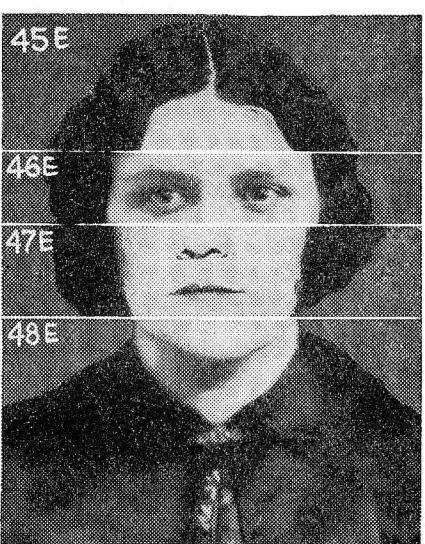
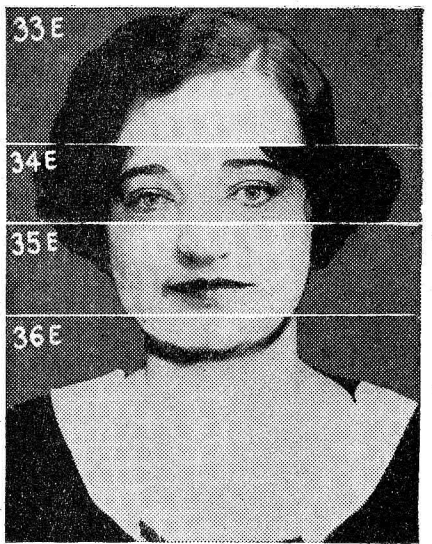
PLAY WHOZIT AND WIN \$26,000 PRIZE AWARDS



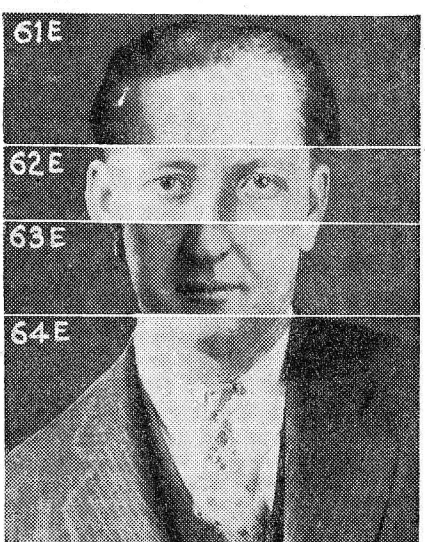
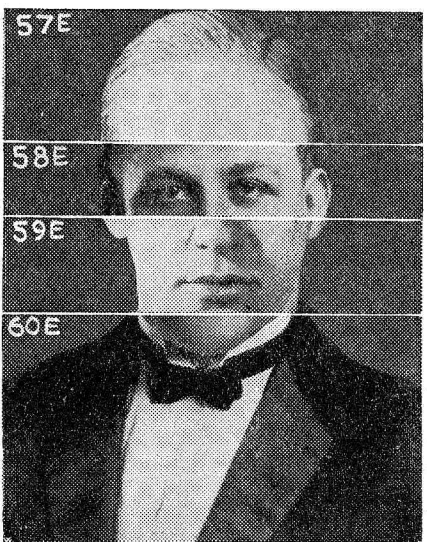
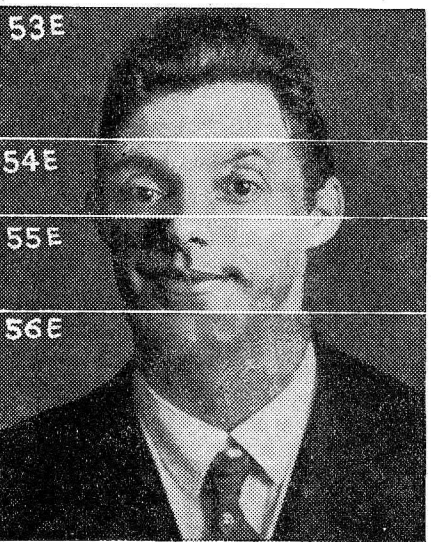
The following artists are in above panel: Ray Kellogg, KFVB; Bill Hatch, KFVB; Clyde McArdle, WNAC; Jimmy Gallagher, WNAC.



The following artists are in above panel: Jim Forshey, WOOD; Sid Goldman, WOOD; Alfred P. Daniel, KPRC; Ernie Golden, WMCA.



The following artists are in above panel: Virginia Willrich, KPRC; Helen A. Morris, WMCA; Gertrude Arnold, WHK; Regina Haller, WHK.



The following artists are in above panel: J. W. Way, WPG; L. Powell Evans, WPG; Bob Miller, WMC; Clarence Jackson, WMC.

GOODY GOODY GIRL

DESPAIRING and Alone, Lois Finds Herself Helpless Behind Steel Bars Until Raymond Comes—Then She Discovers that She Has Been Painted a Scheming Crook.

By **MERLIN MOORE TAYLOR**

WHISKED suddenly and unexpectedly out of the uneventful atmosphere of the little town of Paradise, Lois Sylvester found herself in a strange whirl of roaring night life in Chicago. Not dreaming of her impending fate as she trudged along the country road to escape the tyranny of an uncompromising step father she had bitterly resented the advances of Herbie Coles, a neighbor boy, who offered her a lift in his car in exchange for a kiss. Later, however, when she had met Raymond Lancaster, wealthy youth, aboard the Chicago train and had been taken into the care of Mrs. Gayton, also aboard the same train, she met Herbie again. As the guest of Mrs. Gayton she went to the races and made a successful bet on a horse. At the same moment Herbie, who sat beside her, lost everything. At the request of Mrs. Gayton she started back to the city with Herbie who seemed bound on a mysterious mission that required speed. They were overtaken by a motorcycle policeman and thrown into a suburban village jail. Lois put in a call for Lancaster who had promised to come to her rescue at any time should she need him. While she was telephoning Herbie slipped out of the door and escaped with the car, leaving her alone. The police were interested in her reference to Victor Jermin as a friend of Mrs. Gayton's and found a great deal of amusement from the chief's allusion that perhaps Victor was now using "grease instead of soft soap." But the meaning of the expression was lost on Lois. With Herbie gone she now waited developments over the telephone.

CHAPTER X

"I Love You"

THE walrus-mustached chief indicated a chair. "Sit down. No," as Lois glanced at the barred door and questioned him with her eyes, "I guess we won't have to lock you up. I got to make out your arrest slip and fill in the bonds, ready when someone comes to put up the money. Ah," as the telephone began ringing, "this might be one of your friends now."

He was wrong. It was not Lancaster, but someone whom he addressed as "captain" and as they talked the shaggy eyebrows and the walrus-mustaches wagged and wobbled in unison and his tones became surcharged with mixed excitement and indignation.

"What's that?" he cried into the mouthpiece. "They're figuring on running through here? Other roads got too hot? Of all the nerve! You bet we'll take a hand. The cross-roads? In half an hour? O. K. I'll round up the boys and be there."

He slammed the receiver on its hook and whirled to the motorcycle man. "Go find Joe and Tom. We got business to tend to. The highway police—"

His subordinate already had departed. Evidently the chief's share in the conversation over the wire, meaning nothing to Lois, required no explanation for him.

Walrus-mustache turned to the girl. "So! You're just a decoy, eh? This speeding stuff was all framed to get the boys inside and keep me busy while your friends did their stuff! You—"

"What are you talking about?" cried Lois. "I don't understand."

THE chief opened a drawer of the desk and extracted a heavy iron ring with four huge keys attached.

"Stalling won't get you anywhere, young woman," he said grimly. "Come on."

"You're going to lock me up, after all? What have I done?" demanded the girl.

"You'll have no chance to tip off your gang that I'm hep to them," retorted the chief. He put a hand on her arm, forced her not ungrudgingly to her feet and propelled her toward the barred door. Then, still holding to her, he unlocked it and motioned to her to enter.

Lois threw a timorous glance across the threshold. Other barred doors—gloomy, forbidding, sinister in the half-light of a single incandescent in the ceiling—gaped evilly at her. She shrank back in dismay. "Please don't put me in there," she begged. "Let me sit out here with you."

"I won't be here. I'm going—some place, with the boys," said the chief. "Go on in there, young woman."

"But if somebody calls up; about bonds, I mean."

"You can't get bonds now. You're held for investigation."

"Investigation? Of what?"

Walrus-mustache made an irritated gesture. "I'm not going to stand here arguing with you. Of course, if you want to come clean, tell me the truth—"

"I've nothing to tell."

"All right. In you go. I'll be decent. I won't put you in a cell. I'll give you the run of the place, seeing you're alone."

He gave her a little push and clanged the door to. Her eyes made a quick circuit of the place. Three cells with sheet iron

first the pillow, then the blanket, between thumb and forefinger and dropped them upon the lower end of the bunk, then spread a tiny handkerchief upon the edge of the pad and sat down.

Suddenly the air was rent by a shrill, insistent ringing of the telephone bell. She started to her feet, then sank back again. It was Lancaster, she guessed, calling the number his mother had taken. Getting no answer, he doubtless would hang up and go to bed while she— Oh, well, it didn't matter. The chief had said she couldn't get bonds anyhow.

Directory Is Back

THOUSANDS of readers of Radio Digest have wondered why the Directory of the Radiophone Broadcasting Stations, heretofore appearing serially continuously on the next to last page, was omitted during the past three issues. Perhaps mention should have been made of the reason. Letters of complaint surged into the publication's offices.

The reason this directory has been omitted is because the station data is changing so rapidly as to make the material published almost useless before it reaches the reader. This deplorable state of affairs is only another very good reason why congress must act immediately to provide some means of controlling the licensing and wave length allocation of broadcasting stations.

To answer the demand for the Directory, however, Radio Digest has reinstated at least a part of it on page 23 of this issue. No guaranty of its accuracy is made, and the challenge offer of one dollar for corrections made by readers is withdrawn until further notice when broadcasting conditions have become more stabilized. The information given was checked very carefully, but there will be errors.—THE EDITOR.

sides and barred fronts stood against the back wall. Their top, of bars also, did not come within three feet of the ceiling. She could see they were empty, as he had said, but the fact that she was the sole prisoner frightened, rather than reassured, her. She turned her back on the cells and pressed her face close to the bars on the door that separated her from the well-lighted office.

Walrus-mustache was examining a heavy revolver, holding it close to his eyes and whirling the cylinder. Then he jammed it into a holster under his coat, picked up a cap from the table and vanished through the door into the night.

WHERE was he going? What had he been told in that telephone message to excite him and make him turn upon her with accusations? It was all quite a mystery to the girl he had left clinging to the barred door and after a bit Lois refused to indulge in further fruitless conjecturing and turned for a detailed inspection of the cell-room.

The three cages were identical. Each boasted two iron bunks swinging on chains from the iron wall at the back, one bunk being above the other. Each bunk had a small pad running its length and on each was a folded blanket and a small pillow that crackled to the touch, indicating that its filler was straw. In a corner was a stationary washstand and toilet. The whole place offended her nostrils with a sharp odor of soap and strong disinfectant.

She went back to the door into the office and treated her lungs to deep breaths of the fresher air to be obtained there. Weariness began to steal over her and she glanced over her shoulder toward the cells. After a bit she went to the middle one—because it permitted her to see into the office—and contemplated the lower bunk. She could not bring herself to lie down upon it, but she gingerly picked up,

to return right now, I'd soon be occupying one cell in there and you another. Oh, well, I've got my lucky rabbit's foot with me. There. Come on out."

She came, breathing deeply, and rewarded him with a grateful look as she sank into a chair beside the desk. Lancaster locked the door and tossed the keys back into the drawer.

"Come on. Let's get away while we can," he urged. "I've got a car outside. Somebody's liable to come any minute."

"Should I really run away?" she asked. "Unless you prefer being kept a prisoner here or somewhere else for no telling how long, having your picture in the papers, long write-ups—"

"But I haven't done anything." "The chief thinks you have. He'll tell the newspapers. It will mean that you'll be a marked woman forever after. Come on while the way's clear."

She sighed. "All right, if you think best. By the way, what would be a fair fine for speeding sixty miles an hour?"

"Oh, say ten dollars. Good Lord!" He stared as she opened her purse and took out a bill. "What are you doing?"

"I'm going to leave ten dollars with a note saying I plead guilty to speeding."

"I thought what's-his-name—Coles?—was driving?"

"I assumed responsibility. We were speeding and I wouldn't feel right—"

"Oh, all right," he broke in with an air of resignation. "Only hurry."

SHE found pencil and paper and indited a short note, put note and bill into an envelope and propped the envelope up against an ink-well.

"Will you hurry?" begged Lancaster from the doorway. "The road's clear just this minute, but—"

"Coming," she replied and joined him.

A moment later the coupe in which he had arrived had been turned and they were headed toward Chicago. Suddenly Lancaster began to laugh.

"I'll bet when the chief comes back, finds you flown and the door locked he'll tear his hair out by the roots trying to figure how it was done. And when he finds that note—oh, my."

"Of course, he won't know about you," she said, joining in his merriment. Abruptly her laughter broke off. "By the way, how did you happen to find me?"

"Quite easily. When I called the number you left and got no answer I searched the suburban telephone directory until I found it. Then I drove out to the station and—you know the rest."

"I don't know how you learned who called. I didn't give my name."

"Something told me it was you. I couldn't have slept until I found out what had happened."

"I'm always being a lot of trouble to you. On each of the three times we've met, you—"

"Have derived pleasure from being of service to you." Suddenly he drew up at the side of the road and stopped the car.

"Lois, do you remember what I said the first time we met, that day on the train, just a moment before Mrs. Gayton knocked—"

LOIS thought she knew what was coming—an apology for losing his head, for trying to make love to her. She didn't want him to do that. It would embarrass them both.

"Yes. I remember," she said. "Can't we forget it? You admitted you were mad. Let it go at that."

"I said I was mad—about you," he corrected. "I still am. I said I loved you then. I do now. I—"

"Please." She laid a hand on his arm pleadingly. "I think you had better drive on."

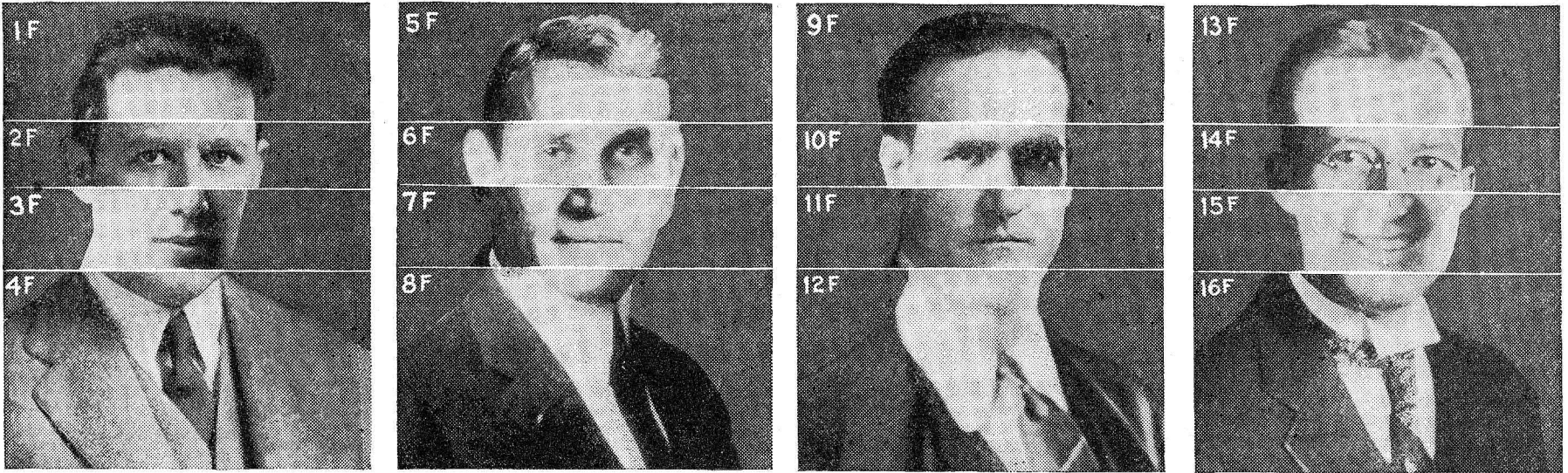
"No." He took her roughly in his arms, drew her to him along the seat and freed one hand to tip her face to his and kiss her. What Mrs. Gayton had said—"men are wolves; the best of them will pounce if they have an opportunity"—flashed through her mind. Lancaster had done just that—pounced. She began struggling to release herself.

"You're hurting me," she panted, twisting her lips away from him. "You're hurting me and I'm not thrilled at all."

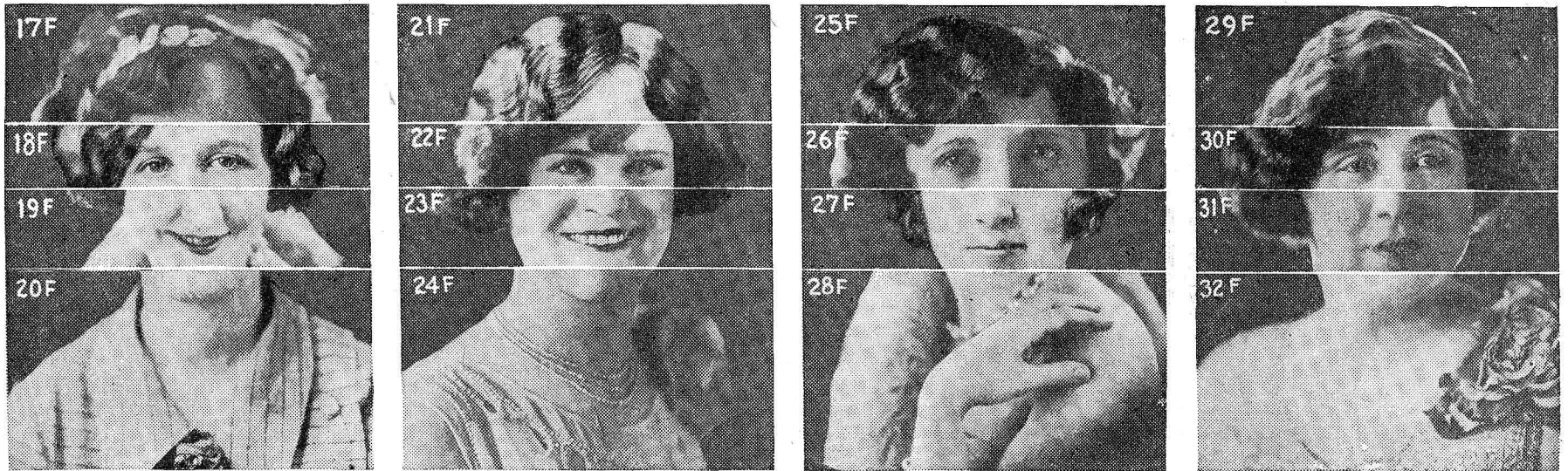
"Hurting you? Of course, I'm hurting you." He spoke savagely. "I want to hurt you. There are moments when I could murder you—when I remember how you played me for a sucker, making me think you were an innocent little country

(Continued on page 20)

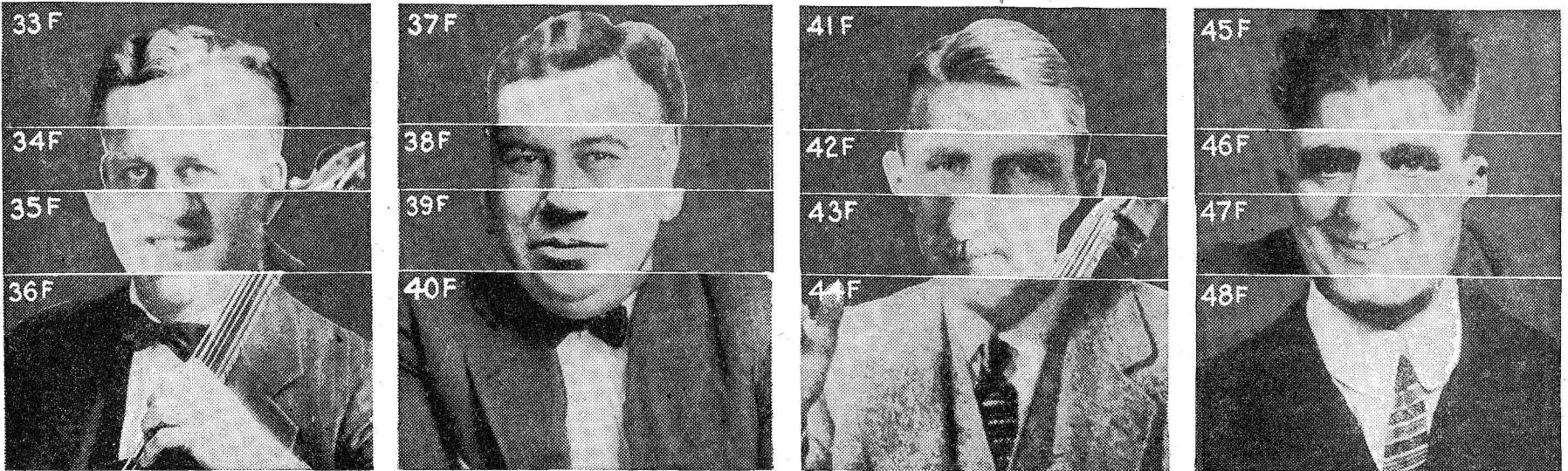
START NOW PLAYING GREAT GAME OF WHOZIT



The following artists are in above panel: Erwin Swindell, WOC; Gilson V. Willets, WOC; Pat Barnes, WHT; Joseph Ball, WMAK.



The following artists are in above panel: Cecile Baron, KJR; Hazel Reisinger, KVOO; Eva Rautenberg, WMAK; Helen Rauh, WHT.



The following artists are in above panel: D. R. P. Coates, CKY; George Kirchner, KJR; H. S. G. Fraser, CKY; Ed. McConnell, WJAX.

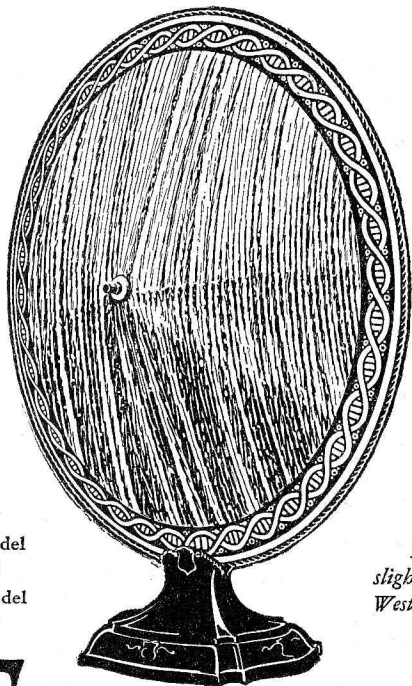


The following artists are in above panel: Charlotte Myers, WJR; Big Sister, KVOO; Mary Tudor, WJR; Grace McConnell, WJAX.

Put the decision
up to your ears,
and you'll put
other speakers out
of your mind!



A MERE facial likeness would not proclaim another Caruso! Neither can mere semblance in shape provide the counterpart of a Farrand Speaker. To rely on your eye is to court confusion; to decide with your ears is to unhesitatingly choose a Farrand. For tone quality is something to be heard, not seen. Hear. Compare. Listen—and *then* you'll see. Your dealer will gladly demonstrate the Farrand Speaker—in his store or at your home. Find out for yourself TODAY what a half-million listeners discover every night!



Senior Model
\$32.50

Junior Model
\$16.50

Prices
slightly higher
West of Rockies

**Farrand
Speaker**

FARRAND MFG. CO., Inc. LONG ISLAND CITY, N. Y.



Eveready's exclusive
Layerbilt construction makes
this the most economical
of "B" batteries

IMPROVEMENT on top of improvement has been the history of Eveready Radio Batteries. Here, in the radically different Eveready Layerbilt, is the "B" battery which tops them all. The ability of this battery to give you unrivaled service and economy is due to its unique internal design. Instead of the usual assembly of round cells, it is built of *flat* layers of current-producing materials pressed firmly together. This construction makes use of the spaces now wasted between the round-type cells and avoids the usual soldered wire connections. Eveready Layerbilt is every inch a battery. This exclusive Eveready Battery development packs more active chemicals in a given space and enables them to produce more current and give longer life.

This HEAVY-DUTY EVEREADY LAYERBILT BATTERY gives twice the service of the smaller Light-Duty batteries and greatly reduces your "B" battery operating cost.

Use Eveready Layerbilts on any set, and get not only this extra service, but also—the greatest "B" power operating economy—the utmost in "B" power dependability—D. C. (direct current) in its purest form, which is so necessary for pure tone quality.

Manufactured and guaranteed by
NATIONAL CARBON COMPANY, Inc.
New York San Francisco
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Tuesday night means Eveready Hour
— 9 P. M., Eastern Standard Time,
through the following stations:

WEAF—New York
WJAR—Providence
WEEI—Boston
WTAG—Worcester
WFI—Philadelphia
WGR—Buffalo
WCAE—Pittsburgh
WSAI—Cincinnati

WTAM—Cleveland
WWJ—Detroit
WGN—Chicago
WOC—Davenport
WCCO—Minneapolis
WCCO—St. Paul
KSD—St. Louis
WRC—Washington

EVEREADY
Radio Batteries
—they last longer

How to Build Bruno Regenatrol

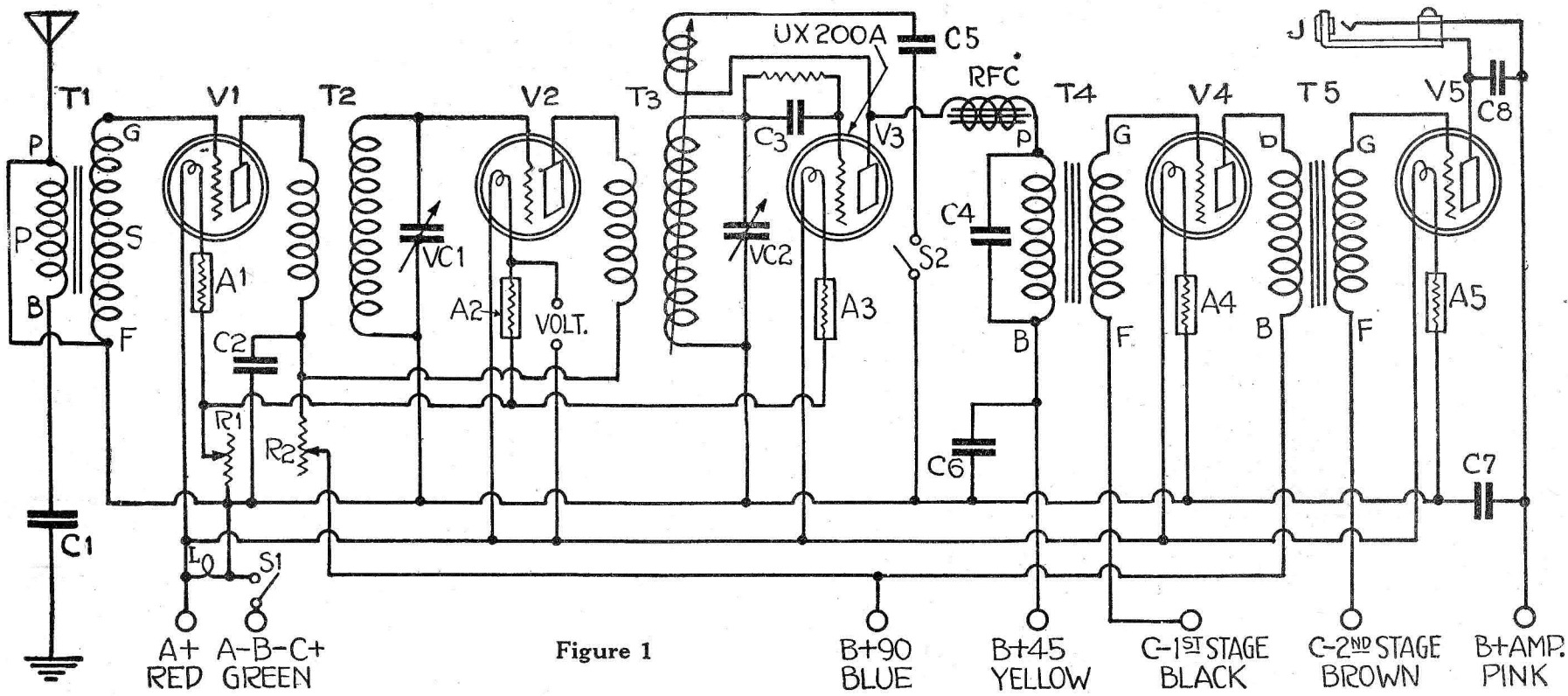


Figure 1

By JOSEPH CALCATERRA
Part I

NOT so long ago a receiver with less than two dozen controls was considered "inefficient." At that time, "soft" detector tubes required critical adjustment of plate and filament voltage; no detector unit was complete without some form of variation between primary and secondary coils; tens and units taps were the rage for varying the inductance of a coil, and the number of tuning controls such as variable condensers and variometers required for the detector circuit alone would be enough to equip a number of present-day receivers.

The front panel presented the appearance of a highly complicated power house switchboard as contrasted with the simple, clean and well-balanced panels of today.

Many a battle has been waged in the interest of simpler control and the present trend towards the elimination of needless controls is gaining more and more ground.

The Single Control Problem

In designing a single control receiver it is well to keep in mind that the requirements for nicety of adjustment must be met in the matter of oscillation control, compensation for tuning condenser inequalities and volume control, but these adjustments should be minor ones which have very little effect on the actual tuning of the receiver to a desired station. These auxiliary controls should be incorporated merely as a means of getting the desired shade of volume and freedom from distortion without complicating the operation of the receiver.

Any fan who has experimented with tuned radio frequency circuits knows how difficult it is to keep three tuning condensers in step with one another in tuning in stations all the way up and down the wave length range of the receiver. It is usually easy enough to keep the condensers in step for the detector stage and the radio frequency stage which precedes it in a two-stage R. F. and detector circuit, but the difference in the elements which enter into the aerial system of the receiver makes it practically impossible to synchronize the tuning of the first stage condenser with the tuning of the other two condensers. The expedients usually resorted to in such cases are to use auxiliary midget condensers across the first stage tuning condenser or to include an extra control for the first stage, making the tuning of that stage independent of the other two tuning circuits. This, of course, takes the receiver out of the class of single control circuits.

How Solved in Bruno Regenatrol

A glance at the wiring diagram shown in figure 1 of the Bruno Regenatrol circuit will show how this difficulty has been solved. The circuit is essentially a "Diamond of the Air" circuit with a stage of untuned radio frequency added to it. This untuned stage by its very broadness eliminates the necessity of an additional tuning control for the first stage of radio frequency amplification and permits tuning of the second stage and the detector stage by the dual condensers of the Bruno

Unitune unit. The unique construction of the condenser units of this instrument permits the movement of both condensers at once by moving the drum controls which are attached to the condensers. These drums may be moved independently or simultaneously by pressure on either or both drums at a time.

These two condenser drums form the only real tuning controls and permit the use of the receiver as a single or double control receiver.

While the first stage of radio frequency

amplification is not quite as efficient as a tuned stage, it permits the use of the actual amplifying characteristics of the tube and the simplification of tuning controls. This reduction of efficiency in the first radio frequency stage is counterbalanced by the gain due to the use of regeneration in the detector.

Control of Oscillation

The proper control of oscillation in radio frequency circuits is a subject which has been given considerable attention since tuned radio frequency circuits made their

first bow. A number of different methods of oscillation control, some independent and others automatic, have been evolved. One of the first methods used to control the tendency of tuned circuits to oscillate was the use of a potentiometer or C battery to control the bias on the grid of the radio frequency amplifier tubes.

A better means of controlling oscillations, however, consists in connecting a variable high resistance of the order of 200,000 ohms in the plate circuits of the radio frequency tubes, between the B terminals of the transformers and the positive terminal of the B battery. The adjustment of this variable resistor serves to adjust the voltage of the B battery on the plates of the tube. Thus it controls oscillation by decreasing or increasing the plate voltage and consequently decreasing or increasing the tendency to oscillate as the effective resistance of the element is increased or decreased respectively. The tendency of a circuit to oscillate increases as the plate voltage is increased. By a proper adjustment of the plate resistance, the voltage may be adjusted to a point which will keep the circuit at its maximum efficiency, just below the oscillation point, for any given wave length or station frequency. The variable high resistance shown as I 2 in the wiring diagram accomplishes this purpose.

Arrangement of Regeneration

Regeneration in the detector circuit is obtained and controlled by the tickler coil T of the tuning unit T3. The adjustment of resistance R2 and tickler T control regeneration in the radio frequency and detector circuits, thus permitting maximum tuning efficiency without critical controls.

An 85-millihenry choke coil, RFC, prevents radio frequency current from flowing through the windings of the audio transformer T4 and diverts it into the tickler coil T to produce regeneration in the detector circuit.

The tickler coil is so arranged that it may be disconnected from the circuit when extreme selectivity and sensitivity is not required, as is the case when listening in to local stations, thus eliminating the additional control.

A switch, S2, is provided for connecting and disconnecting the tickler. The tickler coil is connected into the circuit when the switch is in the "ON" position and disconnected when the switch is in the "OFF" position.

Two stages of high quality, transformer-coupled audio frequency amplification using first-class transformers completes the general layout of the receiver.

Tube Control Layout

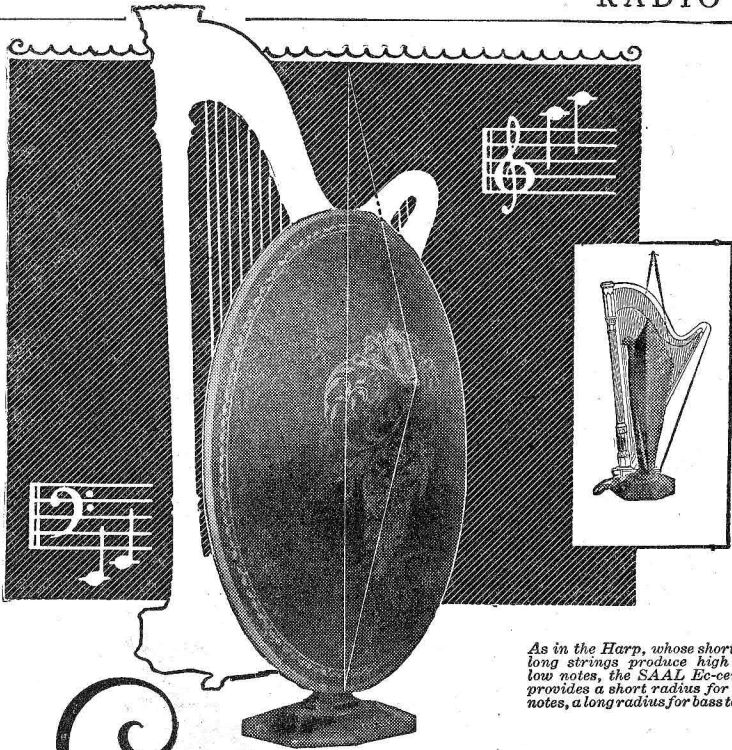
Separate Amperites are provided in each tube lead. An additional control of the filaments of the detector and radio frequency tube filaments is provided in the form of one rheostat, R1.

On first consideration this rheostat will seem extravagant and unnecessary, but on further thought you will concede the advisability of such an arrangement. In the first place the filaments of tubes do not age or become exhausted uniformly, so that it often happens that the filament of one tube requires a somewhat higher voltage for efficient operation than another tube which may be in better con-

(Continued on page 37)

LIST OF PARTS

1 Bruno "TK" Unitune @ \$20.00	Bruno Radio Corp., Long Island City, N. Y.	\$20.00
1 Bruno Light Switch @ 75 cents	Bruno Radio Corp., Long Island City, N. Y.	.75
1 Pr. Bruno Adjustable Brackets @ \$1.25	Bruno Radio Corp., Long Island City, N. Y.	1.25
1 Samson, type HW-A3, 3 to 1 ratio Audio Transformer @ \$5.00	Samson Electric Co., Canton, Mass.	5.00
1 Samson, type HW-A3, 2 to 1 ratio Audio Transformer @ \$5.00	Samson Electric Co., Canton, Mass.	5.00
1 Samson, 85 millihenry R.F. Choke coil @ \$1.50	Samson Electric Co., Canton, Mass.	1.50
1 Carter, No. M6, 6-ohm midget rheostat @ 50 cents	Carter Radio Co., Chicago, Ill.	.50
1 Carter "Imp" battery switch @ 65 cents	Carter Radio Co., Chicago, Ill.	.65
1 Carter No. 1 open circuit "short" jack @ 25 cents	Carter Radio Co., Chicago, Ill.	.25
2 Carter No. 10 tip jacks @ 10 cents	Carter Radio Co., Chicago, Ill.	.20
5 Benjamin No. 9044, UX sockets @ 50 cents	Benjamin Elec. Mfg. Co., Chicago, Ill.	2.50
1 Centralab, No. 200M, 0-200,000 ohm Radiohm @ \$2.00	Central Radio Laboratories, Milwaukee, Wis.	2.00
1 Lignole, No. 1-D, 7"x21" front panel @ \$6.94	The Lignole Corp., Chicago, Ill.	6.94
1 Formica, 5"x20"x3/16" subpanel	Formica Insulation Co., Cincinnati, Ohio	2.34
4 Amperites, No. 1 A, mounted @ \$1.10	Radiall Co., New York City, N. Y.	4.40
1 Amperite, No. 1 A or No. 112 (depending on tube used in last audio stage) @ \$1.10	Radiall Co., New York City, N. Y.	1.10
3 Tobe, 1 mfd. precision condensers @ \$1.25	Tobe Deutschmann Co., Cambridge, Mass.	3.75
1 Acme, Type R3, R.F. Transformer @ \$3.00	Acme Apparatus Co., Cambridge, Mass.	3.00
1 Durham, 2-megohm Grid Lead @ 50 cents	International Resistance Co., Philadelphia, Pa.	.50
1 Jones, Type PM, 4-ft. Multiplug @ \$3.00 Type S	Howard B. Jones, Chicago, Ill.	3.00
2 Electrad, .0005 mfd. fixed condensers @ 30 cents	Electrad, Inc., New York City, N. Y.	.60
2 Electrad, Type S, .006 mfd. fixed condensers @ 75 cents	Electrad, Inc., New York City, N. Y.	1.50
1 Electrad, Type GS, .00025 mfd. grid condenser @ 40 cents	Electrad, Inc., New York City, N. Y.	.40
2 Binding posts marked "Ant." and "Grnd." respectively	H. H. Eby Mfg. Co., Philadelphia, Pa.	.30
10 lengths Acme Celatsite Wire with black covering	Acme Wire Co., New Haven, Conn.	1.00
1 package Kester Radio Solder	Chicago Solder Co., Chicago, Ill.	.25
1 Corbett Type TS, 7"x21", 10" deep cabinet	Corbett Cabinet Mfg. Co., St. Marys, Pa.	13.00
Miscellaneous screws, nuts, soldering lugs, etc.		1.00
OPTIONAL		
1 Jewell, type 135 C portable voltmeter	Jewell Electric Inst. Co., Chicago, Ill.	10.00
Total Cost		\$92.68



As in the Harp, whose short and long strings produce high and low notes, the SAAL Ec-centric provides a short radius for high notes, a long radius for bass tones.

Ec-centric

— the new scientific SAAL EC-CENTRIC CONE
whose balanced tone color is the sensation in radio today

Your receiving set may be getting all of the best that's on the air—but are you getting it? You cannot know the capabilities of your radio set, in volume, clarity, beauty of tone till you give it the advantage of the Saal Ec-centric.

On the principle of the harp, whose short strings produce the high treble notes, whose long strings give forth the deep base tones, the Saal-Ec-centric, with its "center" actually off-center, provides a short vibrating radius for the high notes, a long radius for the rich low tones.

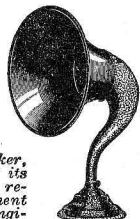
These exact relative proportions of vibrating area, definitely fixed by scientific principles, are now provided for the first time in the Saal Ec-centric Cone. All rumble or "barrel tone" is eliminated. True balanced tone from soprano, flute and violin to pipe organ or 'cello. A demonstration will convince you.

Hear the Saal Ec-centric at your dealer's, or write us to direct you where it can be heard.

The Saal Ec-centric comes in two models: 20-inch, \$25; 14-inch (Junior), \$15. Slightly more west of Rockies.



The SAAL Pedestal is an ornament to the most beautiful surroundings. Its pure wooden tone chamber, three feet in length, exceptionally clear mellow reception. Price, \$38



The famous SAAL Soft Speaker, the outstanding speaker of its type. Is giving satisfaction regardless of the set or equipment used. Standard with radio engineers. Price, \$22.50

H. G. SAAL COMPANY, 1800 Montrose Ave., Chicago, U. S. A.
WORLD FAMOUS MAKERS OF HORNS—CONES—PEDESTALS

SAAL

Quality Always Pays

BUYING a radio receiver is investing in pleasure, entertainment, information. You get what you pay for. If you want true radio happiness that will endure, then you'll choose a Synchronphase.

For Synchronphase reception is unusually superior because of several Grebe developments: *Colortone, Binocular Coils, S-L-F Condensers, Low-Wave Extension Circuits, etc.*

If you want to know *why* they combine to produce such reception as, perhaps, you've never realized was possible,

Send for Booklet RD

A. H. Grebe & Co., Inc.
109 West 57th Street, New York

Factory: Richmond Hill, N. Y.

Western Branch: 443 So. San Pedro St., Los Angeles, Cal.



"Good words gain you honor in the market place; but good deeds gain you friends among men."

It is performance that gains the Synchronphase praise and friendship from its owner.

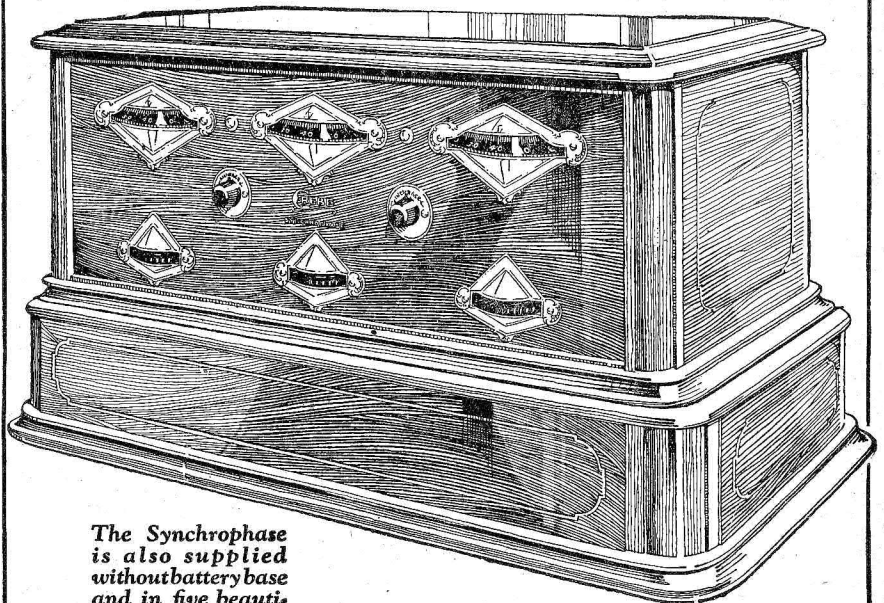
Doctor Wm

The GREBE SYNCHROPHASE

TRADE MARK REG. U.S. PAT. OFF.



All Grebe apparatus is covered by patents granted and pending.

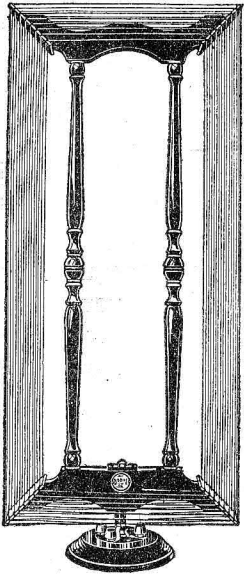


The Synchronphase is also supplied without battery base and in five beautiful console models.

The Newest in Accessories

Bodine Deluxe Loop

THE new Bodine DeLuxe loop aerial, shown herewith, is a beautiful piece of furniture and meets the great demand for an efficient, attractive loop requiring a small operating space. The



frame is constructed of solid walnut hand rubbed to a beautiful finish. The whole harmonizes with the most artistic home furnishings.

The wire winding consists of a cable of fine copper wires stranded with larger phosphor bronze wires which have been hardened to prevent stretching, and covered with a silk braid. Bakelite spreaders mounted on each arm of the loop support the wires. All contacts

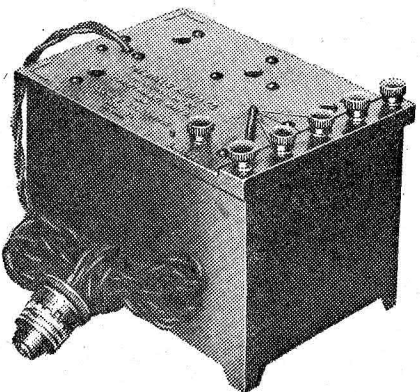
with the winding are well insulated with bakelite.

A special low capacity 3-contact jack is mounted on Bakelite in the base, permitting continuous rotation of the loop without twisting or disturbing the connecting wires leading to the receiver. If desired this jack may be removed from the base and mounted in the cover of the set or cabinet so that there are no exposed connecting wires.

All models have the center tap, required by so many super-heterodyne and other loop receivers. The turning radius of the De Luxe loop is but six inches, and the height is 26 inches. Directional selectivity of this loop aerial is very pronounced and enables separation oftentimes of several stations operating on the same or close wave lengths. The De Luxe loop is made in two winding capacities; one for standard loop sets which employ variable condensers of .0005 mfd. capacity, and the other for tuned radio frequency and other sets employing variable condensers of .00035 mfd. capacity.

Rollo B Eliminator

FOR any receiver using up to and including six tubes, the new Roll-O chemical, full wave rectifying B power unit has been brought on the market by the Roll-O Radio Company, of Cincinnati. This B eliminator, shown below, is provided with taps for voltages of 22½, 45, 67½ and 90.



The Roll-O unit is built solidly and compactly. Its size is 6½ by 4½ by 4¼ inches. The device is contained in a well finished metal case with a Bakelite top.

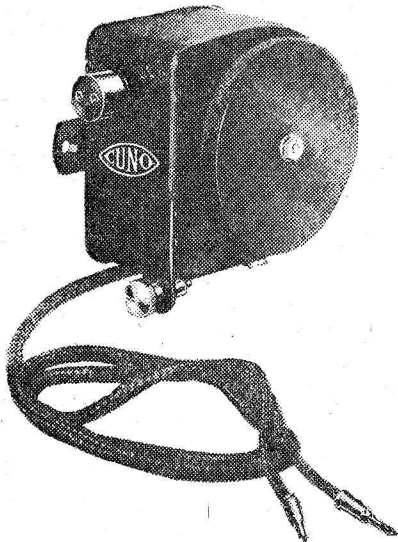
Roll-O B power is intended to be operated from 100 to 120-volt alternating current supplied from the house lighting circuit.

Helpful Radio Book

A NEW and very helpful book, entitled, "The Gateway to Better Radio," and distributed by the American Mechanical Laboratories of Brooklyn, N. Y., has been reviewed and found to contain many good suggestions for the set builder or listener who wishes to add refinements to his receiver.

Among the subjects discussed and amply illustrated with understandable diagrams are: How to eliminate distortion, increasing volume, resistance amplification, improving the super-heterodyne, and how to make battery eliminators.

The price of the book, containing 32 pages well illustrated, is 25 cents.



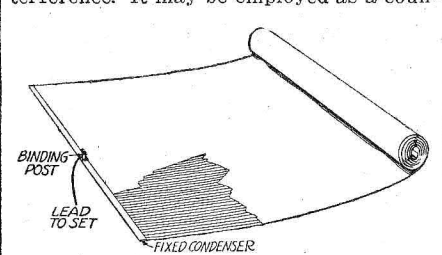
Cuno Extension Cord Reel

NEW and something often desired but never at hand is the Cuno Radio Reel, which is pictured above. Handsomely finished in brown enamel and nickel, the reel is self-winding and contains a length of 25 feet of high grade extension cord.

A button controls the self-winding ratchet. If desired the reel may be attached to wall or set cabinet with two screws. The long length of cord is just the thing for making it possible to put the one loud speaker, or a second speaker in the kitchen, laundry, on the front porch, in the dining room or bedroom, without disturbing or moving the receiver itself.

Effarsee Inside Aerial

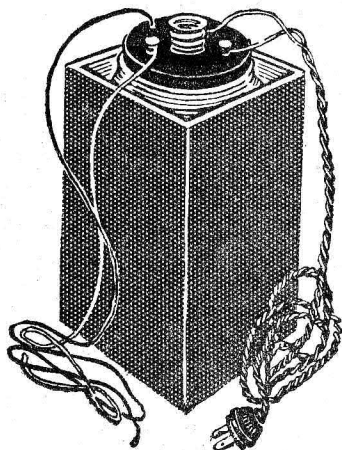
THE Effarsee antenna marks an attempt to produce a really efficient inside aerial for the listener whose set is not equipped to employ a loop type aerial. It can be hung or draped anywhere indoors or outdoors, and even placed under rugs or back of curtains and pictures. At the same time the Effarsee antenna gives one greater selectivity and less static interference. It may be employed as a counterpoise or additional ground, or when rolled up tight and connected to the regular aerial lead-in the Effarsee acts quite effectively as a static filter. Another recommended use for Effarsee is as a wave trap.



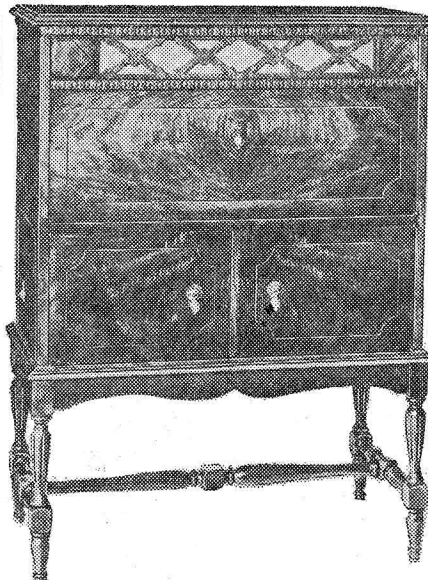
The Effarsee antenna is made by the Fishwick Radio Company, of Cincinnati, and is sold in two sizes, 3 by 10 feet and 3 by 6 feet. Where space permits, the larger model should be installed as it gives greater signal strength.

R. B. Specialty A-B Charger

A N INEXPENSIVE charger for either A or B batteries, shown below, has been developed by the R. B. Specialty Company for those listeners who feel they cannot afford the higher priced charging devices.



It is of the chemical rectifying type and is equipped with leads to connect to the batteries to be charged, and a lamp cord and plug to fit into the house lighting receptacle.



Conner Convenient Cabinets

THE exposed or "hay wire" Radio set is the despair of every tidy house-keeper but Conner Convenient Cabinets, made by the Conner Radio Cabinet company, New Albany, Ind., assemble every detail of your receiving set, including batteries, eliminators, speakers and tools, in a scientifically convenient arrangement and enclose everything in a beautiful piece of period furniture.

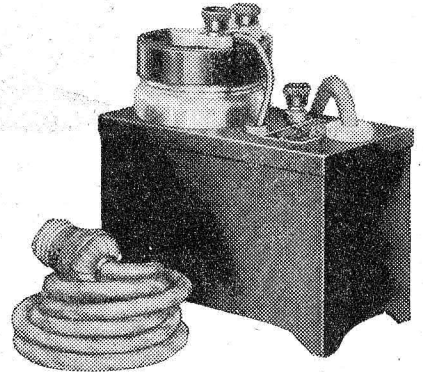
The cabinet above is the Renaissance. It is also manufactured in Sheraton and Jacobean styles. A choice of Moire mahogany or American walnut finish is given. In all three styles the receiver slips right into the section below the grilled top. The cabinet is already wired and a few connections need only be made. Storage battery, charger, hydrometer and water supply fit into a handy drawer pulling out from the left side. A switch enables charging of the battery without

its removal. The loud speaker horn built into the lid of the cabinet is provided with rubber connection for any unit.

A spacious compartment on the right lower side accommodates the largest size B battery equipment manufactured, and immediately below this compartment is a divided drawer for storing tools, parts, phones and other accessories. The cabinet is 35 inches wide, 45 inches high and 18 inches deep.

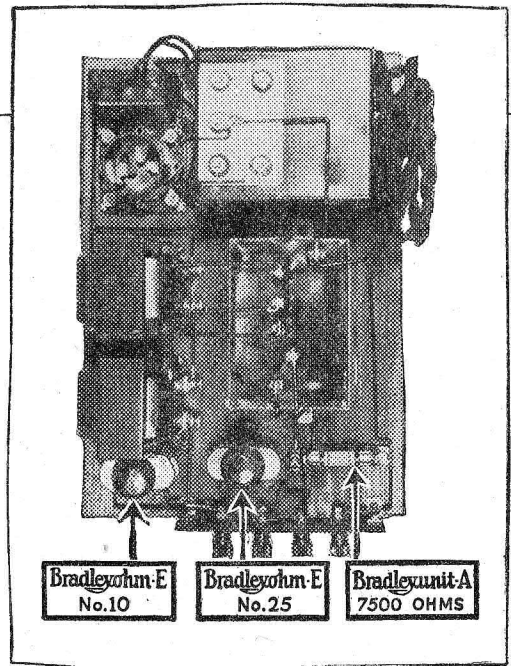
Silite Trickle Charger

BASED upon a new discovery in rectifying elements made by Clarence E. Ogden, president of the Kodol Radio Corporation, in Cincinnati, that company has recently brought out the new Silite Trickle charger, shown below.



The unit shown has a charging rate of .6 of an ampere. The Kodol organization is also manufacturing another model Silite charger which has a tap for the .6 ampere trickle charging rate and, as well, a tap for a "booster" or recharging rate of 3 amperes.

The Silite chargers incorporate the famous new metallic glass electrode known as Silite, which is made from silica, or sand, amalgamated with certain alloys. Neither the electrodes nor the solution in which they are immersed are decomposed by the charging action.



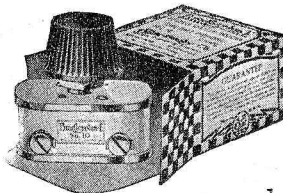
What a whale of a difference a few Bradleyohms make—in a B-Eliminator!

THE leading manufacturers of B-eliminators have adopted Bradleyohm-E as standard equipment for voltage control in their B-eliminators. Leading radio authorities also recommend Bradleyohm-E for use with every form of B-eliminator kit.

Be sure that Bradleyohm-E and Bradleyunit-A are standard equipment in your B-eliminator kit. You will then enjoy perfect voltage control.

Send for folder entitled "How to Build a B-eliminator" describing seven popular hookups.

ALLEN-BRADLEY CO.
290 Greenfield Ave. Milwaukee, Wis.



Bradleyohm-E

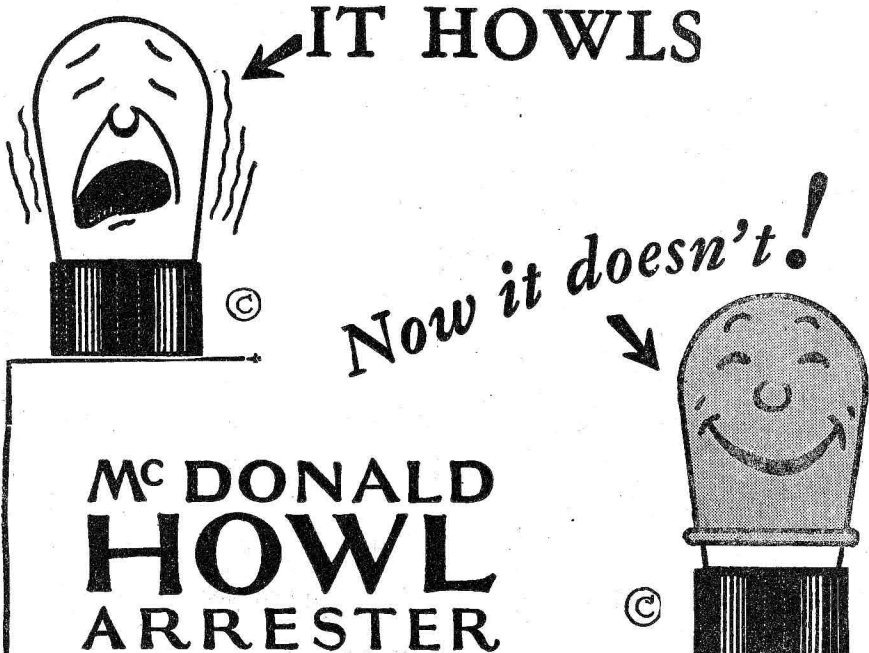
An oversize, variable resistor for plate voltage control in B-eliminators. Ask your dealer for Bradleyohm-E in the checked carton.



Bradleyunit-A

The solid, molded, fixed resistor with silver-plated end caps. Contains no glass. Not affected by temperature, moisture or age.

Use Allen-Bradley Perfect Radio Devices



IT HOWLS

Now it doesn't!

**Mc DONALD
HOWL
ARRESTER**
(TRADE-MARK)

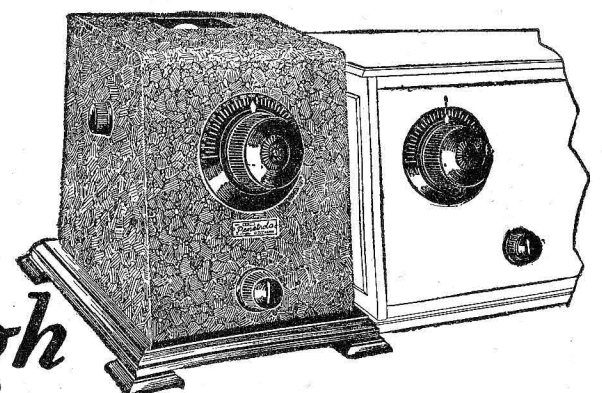
"It Stops that Howl!"

Slip one of these live rubber jackets over each trouble-making tube . . . and the Howl stops.
Remember the name! You can get it for every size tube. It sells for 75c each. Just ask your dealer, or write.

Sole Selling Agents for the U. S. A.
SPARTAN ELECTRIC CORPORATION
350 West 34th Street, New York City

Manufactured in the U. S. A., by the
SCIENTIFIC PRODUCTS CANADA, LTD.

"It Stops that Howl!"



Cut through

Interference

Penetrate locals

Double your stations by adding *Penetrola* to your own receiver

Penetrola is the proved radio "booster." When attached to your present radio set, it increases range and volume many fold. It penetrates both distance and interference and gives far greater selectivity.

Penetrola will double and treble the number of stations you can get consistently, provided your set is a fairly good one. The addition of Penetrola will transform it into a powerful up-to-date receiver, giving you vastly greater radio enjoyment than you now get.

Penetrola also increases the clarity and quality of your reception. It makes operation near the oscillation point unnecessary. It stops your set from radiating and "blooming." It stabilizes reception.

Penetrola is not a wave trap. It is the first stage of amplification in the most advanced radio circuit known today—the Walbert Isofarad. Penetrola makes this new record-holding circuit available to those who already own a radio set.

Easily attached to any type of set between the aerial and the receiver, Penetrola selects and amplifies signals before they reach the set. In effect it brings the station you want closer to your receiver and rejects all others.

Penetrola can be added to your set in a few minutes. It requires no extra batteries, and only the addition of a standard radio tube. It is a permanent investment, for it will operate with the set you now own or any you may buy in the future. It will add more in performance than many times its cost in a new set. No matter how fine a set you may own, Penetrola will improve it.

Add Penetrola to your set now. Practically all dealers have it. If however you are unable to obtain it, write to us direct. Satisfaction is guaranteed or your money will be refunded.



**The NEW TOBE
400-Volt Condenser**

This is a new line of TOBE High-Voltage Condensers, for 400 volts continuous operating voltage. The advent of the Raytheon BH Tube has made necessary condensers for higher working voltages than those formerly employed, in cases where the B-Eliminator Transformers deliver voltages in excess of 300 volts. The TOBE 400-volt Condenser is of the short-path type, is cased in a substantial metal container with heavy lugs, for attachment to baseboard or sub-panel and is equipped with new and unique base terminals, for shortness of wiring and safety. These terminals are not found on any other make of condenser.

In the characteristic TOBE silvered finish, No. 401, 1 Mfd. \$2.00
In the characteristic TOBE silvered finish, No. 402, 2 Mfd. 2.75
In the characteristic TOBE silvered finish, No. 404, 4 Mfd. 4.50



**The TOBE Veritas
Hi-Current Resistor**

A special and unexcelled resistor, capable of radiating 4 to 5 watts continuously without change or deterioration. Unexcelled for use in B-Eliminators and for transmitting grid leaks. Made to be soldered directly into the circuits without the use of clips, although of standard length, so that standard mounts may be used if desired.

Prices:
2,000, 2,500, 3,000, 5,000, 7,500 and 10,000 ohms \$1.10 each
50,000 ohms90 each
.1 meg.80 each
1/4, 1/2 and 1 meg.75 each

Tobe Deutschmann Co.
Engineers, Manufacturers and Importers of Technical Apparatus
CAMBRIDGE MASSACHUSETTS

PRICE
\$35

Prices slightly higher West of Rockies and in Canada

Penetrola is manufactured by the makers of the Walbert Isofarad Receiver—the most advanced radio receiver on the market. If you do not already own a radio receiver, let us tell you about the Isofarad with Penetrola built-in.

Walbert Manufacturing Company, 911 Wrightwood Ave., Chicago
Walbert of Canada, Ltd., London, Ontario

If your dealer can't supply you Mail the Coupon

Walbert Manufacturing Company
911 Wrightwood Ave., Chicago

Gentlemen:
Enclosed please find check or money order for \$35 for which please send me one Walbert Penetrola. If at the end of 7 days it does not perform to my entire satisfaction I will return it and you will refund my money.

Send Penetrola at once.
 Send complete information about the record-holding Walbert Isofarad receiver and money-back guarantee of performance.

Name _____
Address _____

**Walbert
Penetrola**

BETTY GIVES DANDY FRUIT CAKE RECIPE

MISS CROCKER TELLS HOW SOUTHERNERS MAKE IT

Culinary Expert Divulges Secrets of Famous Holiday Pastry—Tells of Quaint Superstitions

By Betty Crocker

It doesn't seem possible that it is already time to think about fruit cake, does it? But if your cake is to have time to mellow and be at its best by the holiday season, now is the time to make it.

In the South there is an old tradition that every member of the family must assist in making the fruit cake. The bowl of batter is carried around the house by the black mammy for each member of the family to stir good luck into it. If stirring the cake brings good luck, I should think that slicing citron and cracking nuts would be even more lucky. Slightly warm the citron, candied orange or candied lemon peel in a double boiler to soften before trying to cut it up.

The goodness of a fruit cake depends largely on the quality of the ingredients you put into it. Making fruit cake is not just a question of adding fruit and nuts to any good cake mixture. Just the right proportion of sugar, shortening, flour and other ingredients is necessary to hold the heavy fruit and nuts. Also the character of the mixture is affected by the kind and quantity of fruits and nuts added. This is because of their sugar and fat content.

White or Southern Fruit Cake

The recipe for White Fruit Cake that I shall give you seems to have originated in the South, and is therefore often called a Southern Fruit Cake. It contains a greater variety of fruits than the dark cake. This is the kitchen-tested recipe for White or Southern Fruit Cake:

- 1 cup shortening
- 2 cups sugar
- 4 cups flour
- 2 tsp. baking powder
- 1/2 tsp. salt
- 1 cup water
- 1 lb. seeded white raisins
- 1/2 lb. each of citron, candied cherries, candied pineapple, candied orange peel and candied lemon peel

1 large cocoanut grated, or 1 1/2 cups
1 lb. blanched almonds
8 egg whites
Cream the shortening and add the sugar gradually. Sift flour once before measuring. Sift baking powder and salt with half the flour. Add alternately to creamed mixture with the liquid. Add the remaining flour to the prepared fruit, cocoanut and nuts. Stir floured fruits into the cake mixture. Fold in the well-beaten egg whites.

SHE DIRECTS STUDIO FOR KMOX, ST. LOUIS



Miss Alice Maslin directs the palatial studios of KMOX, "Voice of the 49th State."

Bake in small loaf or round cake tins, lined with heavy greased paper. Bake 2 1/2 hours in a very slow oven, 250° to 300° F. This amount will make four cakes.

If you buy dried fruits of any kind in bulk be sure to wash them in cold water and then dry them thoroughly before using. Seedless raisins should always be washed. It is not necessary to wash the seeded raisins.

Keeping Fruit Moist

Package citron, candied lemon or orange peel may be purchased already cut up in many stores. The moist shredded cocoanut which comes in cans may be used instead of the fresh cocoanut, but do not use the dry shredded cocoanut for it will make your cake too dry. If the fruit seems quite dry, sprinkle several tablespoons of some light colored fruit juice such as pineapple, peach or pear juice on it after it has been cut up and allow it to stand several hours or over night. The fruit will absorb the juice and produce a moist cake. However, be sure to shake the fruit free from any excess juice before dredging with flour or the fruits may settle in the batter while baking.

Use Small Pans

Fruit cake packs and slices to best advantage if small loaf pans are used. Line the pans carefully with thoroughly greased heavy paper. Do not use the thin wax paper. The paper lining makes the cake bake more evenly and also makes it easier

SHORT WAVES

By Marcella

(Continued from page 2)

peerless ether pioneer, Mr. Sen Kaney. Mr. Kaney has since been reported as gone from KYW. Lee Sims is on WBBM daily, except Sunday and Monday, during the hours from 8 to 12 p. m. Too bad about those low wave scrambles but something is bound to be done about it soon. Fill out one of the Radio Digest blanks Mr. Plummer is working on for a survey. The Mexican stations are on Mountain Time.

D. B. Greenway, Green Lake, Wis. I am told at KYW that Sen Kaney jumped into his big Lincoln car with his beloved wife and trekked to St. Louis—A.W.O.L., unbeknownst and unawares to KYW. Sobs mean nothing to the Old Timer.

Let this alleviate your anxiety, "Lady Anxious." Eddie Loftus is reported as the assistant staff pianist of WHFC, Hotel Flanders, Chicago. He is heart-whole and fancy free, stands five feet seven, weighs 150 pounds, has blue eyes and black hair. He loves his Radio and, and—well you might write him, L. A.

"Caw! Caw! Caw!" That's Jerry Sullivan, the announcer who put the CAW in Chi-CAW-go. For some weeks he has been back with that same



old call but Jerry is perched on a new antenna these days. Jerry and his "Caw" are making the WSB station stand out like a traffic lamp in the fog. He seems to be quite happy and at home in his new quarters. He's another one of those announcers whose photogravures by Radio Digest have been popular. They are obtainable at ten cents per.

This will interest Wild Rose. Walter Newell at KOA, Denver, is married, thirty-five, good looking, brown eyes and a most affable grin. He is still with KOA and you doubtless will hear him often during the autumn and winter.

John Nelson Hendrix, you old sinner,

to remove from the pan. It should be peeled from the cake while still hot.

The baking of the cake is very important. The temperature of the oven must be low, not over 300° F., all through the baking, or the cake will become too brown on the outside before it is baked in the center. If a small pan of hot water is placed in the oven during the baking, it will help produce a cake which is soft and mellow.

LAST ISSUES SCARCE BUT FEW ARE LEFT

THOSE readers of Radio Digest who were unable, because of the large demand for copies of the last issue, to obtain one, may have one mailed to their home address by sending fifteen cents in stamps or currency to the offices of this publication at 510 N. Dearborn St., Chicago. The beginning of the "Game of Whozit" with the last issue, the second November number, caused a shortage of copies, but a limited supply is still available. Persons subscribing for one year (\$3) may have their subscriptions started with the second November number.

bet you are married and just a trifter. And don't you dare do what you said in your letter.

"Lonesome" at Kenosha: Myron C. Bennett, chief announcer at WCLO, Camp Lake, Wis., is single, twenty-four years old, has small moustache dark and waxed. And he conducts an orchestra.

Miss Susy A. Dickinson of Newtonville, Mass., writes, "When Goldy and Dusty were in Boston the Boston Sunday Post published Goldy's real name as Harvey Hindermeyer and Dusty as Earl Tucker-man."

When Leo Fitzpatrick picked up his mike and hiked, shaking the dust of Kansas City from shoes and accumulating assorted motor fumes at Detroit where he settled down at WJR, he missed something. He looked around and his shadow was not there. So he sent for his former assistant, John Patt, of the Star studio. Quicker'n scat John Patt took his hat, soon was at WJR—and that's that. This was especially convenient for Leo because Corley W. Kirby had already accepted an invitation to join the WGHP announcing staff in Autoville. Now, everybody's happy.

You see, it's like this, Mrs. O. N. H.—when they announce Charlie Schultz at WBBM as the "eighty pound tenor," they belittle him considerably because his actual weight is 300 pounds. He's leaning heavily toward the altar, apparently, as they say he is "almost but not quite married." He has brown eyes and black hair. You are right about Jean Sargent. She was but she isn't now—she's an intelligent and interesting woman. None of the folks at WHIT know anything about that log book.

What deep secret would you like to know about your favorite broadcast star? Drop me a note, girls and boys, and I'll do my best to answer here. MARCELLA.

WOMAN'S PROGRAM INDEX (Daily Unless Indicated)

Household Economics, Women's Hour, Etc.

Eastern	Central	Mountain	Pacific
9:30 a.m.	8:30	7:30	6:30
WWJ (352.7m-850kc), Tonight's dinner.			
10	9	8	7
WIP (508.2m-590kc), Menu, Tues, Thurs, Sat.			
WMCA (340.7m-880kc), Homemakers' club, Tues.			
10:15	9:15	8:15	7:15
KDKA (309.8m-970kc), Homemakers' chats, Tues, Fri.			
10:30	9:30	8:30	7:30
KVOO (374.8m-800kc), Mothers' hour.			
WTAG (545.1m-550kc).			
10:40	9:40	8:40	7:40
WFI (394.5m-760kc), Betty Crocker, Mon, Wed, Fri.			
10:45	9:45	8:45	7:45
KDKA (309.1m-970kc), Betty Crocker, Mon, Wed, Fri; WEEL (348.6m-860kc), Mon, Wed, Fri;			
WTAM (389.4m-770kc), Mon, Wed, Fri;			
WBCN (266m-1130kc), Home service program.			
10:55	9:55	8:55	7:55
KSAC (340.7m-880kc), Housewives' half hour.			
11	10	9	8
WGWS (285m-1050kc), Polly Porter.			
WOI (270.1m-1110kc), Homemakers' hour, Tues, Thurs, Fri.			
WSB (428.3m-700kc), Homemakers hour.			
11:10	10:10	9:10	8:10
WEAO (293.9m-1020kc), Homemakers' hour.			
11:15	10:15	9:15	8:15
WCAE (461.3m-650kc), Women at home.			
11:30	10:30	9:30	8:30
KFAB (340.7m-880kc), U. of Nebr. hour, Mon, Wed, Fri.; Dec. 3, "Return to Home Crafts," Elizabeth Rutherford.			
11:35	10:35	9:35	8:45
KYW (535.4m-560kc), Table talk.			
11:45	10:45	9:45	8:45
WCCO (491.4m-720kc), WDAF (365.6m-820kc), Betty Crocker, Mon, Wed, Fri.			
12	11	10	9
WNYC (526m-570kc), Home economics, Wed.			
12:15 p.m.	11:15	10:15	9:15
KMOX (280.2m-1070kc), Cooking, household hints.			
12:30	11:30	10:30	9:30
WGN (302.8m-990kc), Home management period.			
12:40	11:40	10:40	9:40
WTAG (545.1m-550kc), Lydia Flanders, Fri.			
12:45	11:45	10:45	9:45
WNYC (526m-570kc), Recipes.			
1			
KGW (491.5m-610kc), Household helps.			
WSOE (245.8m-1220kc), Ladies' hour, Mon.			
1:30	12:30	11:30	10:30
KFDY (306m-978kc), Dec. 13, "Christmas Dainties."			
1:45	12:45	11:45	10:45
KNX (336.9m-890kc), Household economics.			
1:50	12:50	11:50	10:50
WMC (499.7m-600kc), Mon, Thurs.			
11			
WOI (270.1m-1110kc), Betty Crocker, Mon, Wed, Fri.			

"Aunt Sammy"

Eastern	Central	Mountain	Pacific
10 a.m.			
WGBS (315.6m-950kc) Mon.			
10:30	9:30	8:30	7:30
WCSH (277.6m-1080kc), WHO (526m-570kc).			
10:50	9:50	8:50	7:50
WMC (499.7m-600kc), Mon, Thurs.			
11			
WEAO (293.9m-1020kc).			

Eastern	Central	Mountain	Pacific
12 p.m.			
WAMW (243.8m-1230kc).			
WRVA (256m-1170kc) Wed.			
1 p.m.			
KWWG (277.6m-1080kc), Mon, Wed, Fri.			
1:10	12:10	11:10	10:10
KPO (428.3m-700kc).			
1:15	12:15	11:15	10:15
KFOA (454.3m-660kc).			
1:30	12:30	11:30	10:30
KFAU (280.2m-1070kc).			
1:45	12:45	11:45	10:45
WDAF (365.6m-820kc).			
2			
KOIL (305.9m-980kc).			
3			
KMA (461.3m-650kc); KSL (299.8m-1000kc).			
3:30	2:30	1:30	12:30
WHK (272.6m-950kc).			
4			
WOC (483.6m-620kc).			
5			
WOS (440.9m-680kc).			
6			
KFXP (249.9m-1200kc), Tues, Thurs, Fri.			
8:30	7:30	6:30	5:30
KFDY (272.6m-1100kc), Wed, Thurs.			

Women's Clubs

Eastern	Central	Mountain	Pacific
11 a.m.			
WOI (270m-1110kc), Federated Women's club, Wed.			
11:30	10:30	9:30	8:30
WNAC (430.1m-697kc), Women's club.			
12 m.			
WHT (399.8m-750kc), Women's club.			
3:05	2:05	1:05	12:05
WBAL (239.9m-1250kc), Talks for women.			
4			
WGN (302.8m-990kc), Woman's club.			
4:05	3:05	2:05	1:05
WCCO (416.4m-720kc), Minnesota Federation of Women's clubs.			
5:15	4:15	3:15	2:15
WMAQ (447.5m-670kc), Illinois Federation of Women's clubs, Thurs.			

Fashions and Sewing

Eastern	Central	Mountain	Pacific
11:30 a.m.	10:30	9:30	8:30
KFAB (340.7m-880kc), Dec. 1, "Good Taste for the Heavy Woman."			
12:30	11:30	10:30	9:30
WOI (447.5m-670kc), Style talk.			
1:35	12:35	11:35	10:35
KPO (428.3m-700kc), Fashion critic, Fri.			
2			
WGBS (315.6m-950kc), Excella dressmaking lessons.			
2:15	1:15	12:15	11:15
WJZ (454.2m-660kc), Fashions.			
5			
WOS (440.9m-680kc), Fancy work.			

Eastern	Central	Mountain	Pacific
6:45 p.m.	5:45	4:45	3:45
KOA (322.4m-930kc), Fashion review, Tues, Thurs, Fri.			
7:55	6:55	5:55	4:55
WPG (299.8m-1000kc), Fashion flashes, Tues.			
8:30	7:30	6:30	5:30
KUOA (299.8m-1000kc), Dec. 6, "Let Your Needle Help Santa Claus."			
8:45	7:45	6:45	5:45
WCCO (416.4m-720kc), Jeanne Gray.			

Health and Beauty

Eastern	Central	Mountain	Pacific
10:45 a.m.	9:45	8:45	7:45
WTAM (389.4m-770kc), Tues.			
11			
WGN (302.8m-990kc), Good health and training.			
WOJ (447.5m-670kc), Health talks.			
12:45 p.m.	11:45	10:45	9:45
WTAG (545.1m-550kc), Marjorie Woodman, Mon, Thurs.			
KFDY (306m-978kc), Dec. 1, "Eat and Grow Thin," Dec. 8, "Eat and Grow Fat."			
5	4	3	2
WOS (440.9m-680kc), Health talks, Tues.			
8:30	7:30	6:30	5:30
WEAO (293.9m-1020kc).			

Garden Talks

Eastern	Central	Mountain	Pacific
1:20 p.m.	12:20	11:20	10:20
WGBF (236.1m-1270kc), Garden talk.			
5:15	4:15	3:15	2:15
WMAQ (447.5m-670kc), Garden club, Tues.			
8:30			
KUOA (299.8m-1000kc), Rose Culture.			

Child Care; Training

Eastern	Central	Mountain	Pacific
10:55 a.m.	9:55	8:55	7:55
KSAC (340.7m-880kc), Myrtle Gungelman.			
11			
WOI (270.1m-1110kc), "Some New Methods of Child Training," Dr. Lovissa Wagoner, Fri.			
4 p.m.			
WEEL (348.6m-860kc), Dec. 7, "Selecting Children's Books for Gifts;" Dec. 14, Parental discipline.			
8:30	7:30	6:30	5:30
KUOA (299.8m-1000kc), Dec. 9, "Faulty Diets and Dental Bills."			

Interior Decorating

Eastern	Central	Mountain	Pacific
5:15 p.m.	4:15	3:15	2:15
WBBM (226m-1130kc), "Redecorating the Old House," Leone Grandland, Mon. "Decorating the New House," Charlotte Voge, Thurs.			
8:30	7:30	6:30	5:30
KUOA (299.8m-1000kc) Dec. 9, "Livable Living Rooms."			

COMPLETE RULES OF GAME OF "WHOZIT"

1. Radio Digest will sponsor a national game to be called the game of Whozit, which will be participated in by the following Radio broadcasting stations: WHT, Chicago; WMCA, New York; WNAC, Boston; KJR, Seattle; WMAK, Buffalo; WHK, Cleveland; WPG, Atlantic City; WLVA, Cincinnati; WJR, Detroit; WOOD, Grand Rapids, Mich.; WSOE, Milwaukee; CKY, Winnepeg; WMC, Memphis; WSM, Nashville; KTHS, Hot Springs, Ark.; KMOX, St. Louis, Mo.; WOC, Davenport; WHB, Kansas City; WOAW, Omaha; KOA, Denver; KFNB, Los Angeles; KPRC, Houston, Tex.; KVOO, Bristow, Okla.; WJAX, Jacksonville, Fla.

2. \$26,000 in prizes will be distributed to the successful contestants as follows: Twenty-four first prizes \$500 in gold for each of the twenty-four stations; twenty-four \$300 merchandise orders for second prizes, and twenty-four \$200 in merchandise orders for third prizes. Grand prizes of \$1,000 in gold will be awarded to the individual judged to be the national DX (long distance) Whozit champion who has submitted the nearest work of identification and the nearest correct solution of the entire 384 portraits from all stations participating, and \$1,000 in gold for the individual who shall be judged to have submitted the nearest work entered in all of the twenty-four participating stations. The twenty-four station prizes will be divided and awarded on the following basis: 1st prize, \$300 in gold to the individual whose set of sixteen completed portraits is most nearly correct in order of correctness, identification of artists, and of the nearest workmanship; 2nd prize, \$300 in merchandise order to the individual whose completed sets are second best in order of correctness, identification and neatness; and 3rd prize, \$200 in merchandise order to the individual whose completed sets are third best in order of correctness, identification and neatness.

3. A board of judges at Radio Digest, 510 N Dearborn st., Chicago, Ill., will pass on all the work submitted and award the prizes for all stations and the grand prizes. Its decisions will be final.

4. Everybody will be eligible to compete except employes (and their families) of Radio Digest or of any of the participating stations, included in Rule 1.

5. The game of Whozit will be free. It will not be necessary to be a subscriber to Radio Digest. Tracings of the pictures may be made at offices of Radio Digest in Chicago or New York or from the files in public libraries, or at the offices of participating broadcasting stations. These with proper identifications may be submitted for the published pictures. All general information helpful to the solution of the game may

be obtained from any of the offices of the broadcasting stations participating.

6. Conditions of the game: Beginning with the issue of November 15 and for eight consecutive issues Radio Digest will publish a series of forty-eight composite portraits in each number. These forty-eight portraits will comprise two representations each from the twenty-four broadcasting stations that participate. Each photograph will be intersected with white lines showing the forehead of one artist, the eyes of another, the nose and mouth of a third and the chin and neck of a fourth. Each segment of each composite photograph will bear a number. It will be necessary for each contestant to separate the various segments and reassemble them on a mount so that they are correctly aligned to complete the portrait of one of the original Radio artists of whom it was taken. Only complete sets are to be submitted. Each portrait must be identified in ten or more words; giving at least five facts about the original artist photographed.

7. Artists (or their representatives) whose fragmentary portraits appear on the "Whozit" pages of Radio Digest are to describe themselves by way of broadcasts from their home station when their respective pictures are published in Radio Digest. Such information as they give over the air is to be made available at the station in the event the listening contestant has failed to hear the individual when he broadcasts.

8. In case of tie, prizes of identical value with those tied for will be awarded each trying contestant.

9. The contest will end at midnight, March 15, 1927. All sets submitted must be complete and must be mailed post paid to Whozit Contest Editor, Radio Digest, 510 North Dearborn St., Chicago, Ill., and must bear postmark not later than midnight of March 15, 1927.

New Stations

New stations licensed by the department of commerce last month include: WARS, Brooklyn, N. Y., 295m-1016kc; WKBZ, Ludington, Mich., 256.3m-1170kc; KRAC, Shreveport, La., 220m-1363kc; WKBW, Buffalo, N. Y., 362.5m-827kc; KRLL, Dallas, Texas, 357.1m-839.6kc; WKBY, Danville, Pa., portable, 220m-1363kc; KGDA, Dell Rapids, S. D., 254.1m-1180kc; WHOG, Huntington, Ind., 241.8m-1240kc; KRCS, Seattle, Wash., 499.7m-600kc; WCGU, Lakewood, N. J., 350.6m-855.2kc; WICC, Bridgeport, Conn., 285m-1052kc; WLBC, Muncie, Ind., 223.7m-1340kc; WLBE, Brooklyn, N. Y., 230.6m-1300kc; WFBE, Cincinnati, Ohio, 232.4m-1290kc; WOMET, Manitowoc, Wis., 254.1m-1180kc; KGDI, Seattle, Wash., 416.4m-720kc; KGDI, Cresco, Iowa, 202.6m-1480kc.

lengths: WJBY from 270.1m-1110kc to 260m-1153kc; KNRC from 208.2m-1440kc to 238m-1260kc; KFEC from 247.8m-1210kc to 252m-1190kc; KGCC from 234.2m-1280kc to 239.9m-1250kc; KFUT from 260.7m-1150kc to 263m-1140kc; WCAM from 236.1m-1270kc to 336.9m-890kc; KFPY from 273m-1098kc to 272.6m-1100kc.

WKBT is the new call of the First Baptist Church station at New Orleans, La. The old letters were WBBS.

KDYL, Salt Lake City, Utah, is now owned by the Intermountain Broadcasting Corp.; WCAO, Baltimore, Md., by the Monumental Radio, Inc.; KFON, Long Beach, Calif., by Echophone Radio Shop; WCLS, Joliet, Ill., by WCLS, Inc.

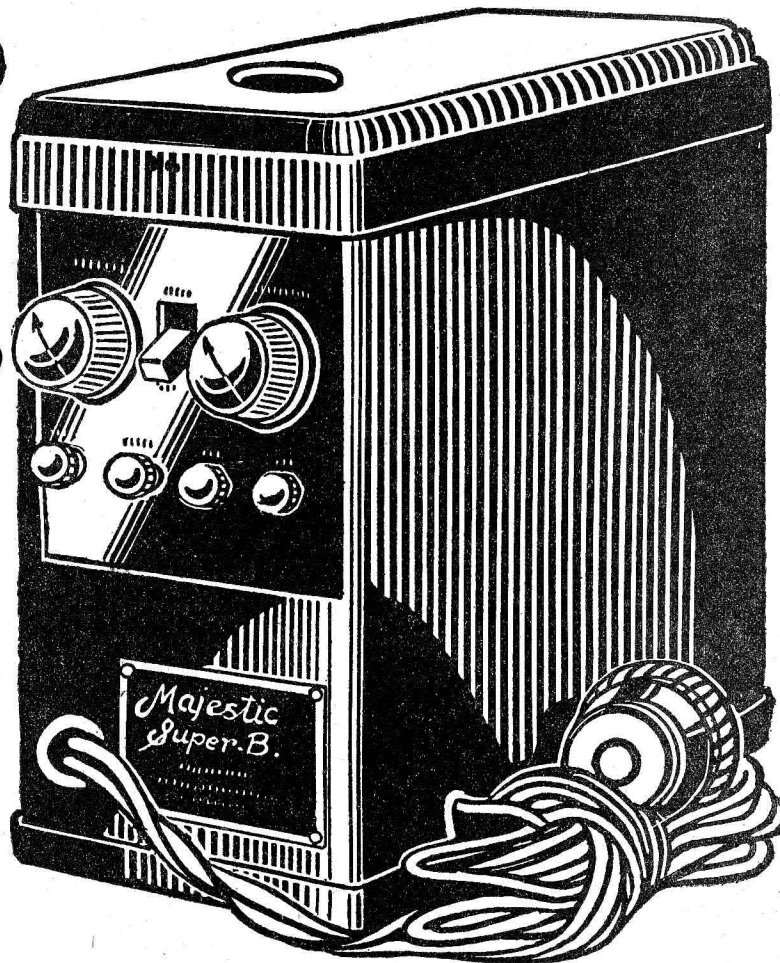
WFBE, Seymour, Ind., is marked delete. This call will be used in the near future by a new Cincinnati station.

The following stations changed wave

No More "B" Batteries on Your Radio

At last a practical reliable "B" battery eliminator for your radio. Does away with "B" batteries; no charging; no replacing. Always 100% efficiency in "B" current. The most revolutionary development in radio.

1-Year Guaranteed
Majestic "B" Eliminator
Sent for only



The Majestic is connected to your radio just like "B" batteries and attached to an ordinary electric socket. (For 1 to 12 tube radios.) Replaces "B" batteries entirely and furnishes "B" current direct from regular house lighting current. Simplifies radio receiving. More efficient than dry or wet "B" batteries. Entirely noiseless. Operates from 110 120 AC, 50-60-cycle current.

Cabinet finished in rich black crystal enamel. Dimensions: 10 1/4 inches deep by 5 1/2 inches wide by 9 inches high. Weight: 20 pounds net; 25 pounds packed. Bakelite Panel. Complete with extension cord and attachment plug. One RAYTHEON tube with G-G-H protective packing. Packed in individual padded wire-bound wood cases.

1-Year Guarantee

Majestic Eliminator and RAYTHEON tube are both guaranteed for one year against electrical and mechanical defects. A printed guarantee enclosed with each unit.

\$5.00 a Month, If Satisfied After Trial

Only \$1.00 with the coupon brings the Majestic "B" Eliminator to your home on trial. Try it out thoroughly before you pay another penny. See how it improves reception. See how much more convenient than using batteries. Judge for yourself how it will save you money, and make your radio set more enjoyable. Then, if not satisfied, send it back at our expense and we'll refund your \$1.00 plus all transportation charges. If you decide to keep the Majestic "B" Eliminator, start paying only \$5.00 a month until you have paid the total price of only \$35.00. That's the price others ask for spot cash. We give you the lowest cash price on easy monthly payments you will never feel.

Send Coupon

Don't miss this opportunity to get the 1 year guaranteed Majestic "B" Eliminator at the rock-bottom cash price on easy monthly payments. Send coupon now while this offer lasts. Order by No. Y8789A, \$1.00 with coupon; \$5.00 a month; total price \$35.00.

Straus & Schram, Dept. 4419 Chicago, Ill.

STRAUS & SCHRAM, Dept. R4419 Chicago

Enclosed find \$1.00. Ship special advertised Majestic "B" Battery Eliminator. I am to have 30 days free trial. If I keep it, I will pay you \$5.00 monthly. If not satisfied, I am to return it within 30 days and you are to refund my money and any express charges I paid.

Majestic "B" Battery Eliminator, No. Y8789A, \$35.

Name.....

Street, R. F. D. or Box No.....

Shipping Point.....

Post Office..... State.....

Married or Single..... Nationality or Color.....

Make the Whole Wiring System Your Aerial

Ingenious New Device Only \$1 Postpaid

No more danger of death or serious injury from a fall when putting up an outside aerial. No more high poles and wires to draw lightning into your home. No more expensive, unsatisfactory "inside aerials," plugs or taps. Just wrap one of the ingenious new Roll-O "Spirals" around the telephone cord or any electric light wire, and use the entire wiring system of your house as your aerial.

Reduce Static

Using the wiring system of your house this way allows a very large proportion of the static to escape into the ground, while it picks up the radio signals perfectly. Radio experts who have tried this simple little device have been amazed by its clarity of reception and freedom from interference. Works entirely by induction. No cutting, splicing, soldering, no damage to fixtures or taping wires. Takes up no room. Easily removed and re-attached if you want to move your set.

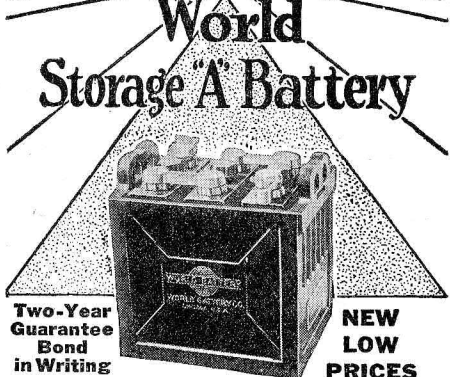
Satisfaction Guaranteed

Just pin a dollar bill to your order, which will be filled at once. Nothing else to pay for the new Roll-O "Spirals," which will give you a new radio thrill and a new satisfaction from your set.

(Roll-O Trickle Charger, \$3.95. Send \$1.00 with order. Balance, C. O. D.—plus a few cents postage.)
(Roll-O "B" Battery Eliminator, \$1.00. Send \$1.00 with order. Balance, C. O. D.—plus a few cents postage.)

THE ROLL-O RADIO CO.
Dept. Q-10,
3rd & Sycamore Sts., Cincinnati, Ohio.

DESIGNED to OUTLAST World Storage "A" Battery



Two-Year Guarantee Bond in Writing
NEW LOW PRICES

Famous the world over for reliable, enduring performance. Solid Rubber Case lasting protection against acid or leakage.

Approved and Listed as Standard by Leading Authorities

including Radio News Laboratories, Popular Sci. Inst. Standards, Pop. Radio Laboratories, Radio Broadcast Laboratories, Radio in the Home and Lefax, Inc.

Send No Money

Just state number wanted and we will ship same day order is received, by express C. O. D. Pay expressman after examining batteries. 5% discount for cash with order. Remember, you save 50% on World Batteries—so send your order today.

WORLD BATTERY COMPANY
Dept. 48
1219 S. Wabash Ave., Chicago, Ill.

- Solid Rubber Case Radio Batteries
- 6-Volt, 100-Ampere \$10.00
- 6-Volt, 120-Ampere \$12.00
- 6-Volt, 150-Ampere \$14.00
- Solid Rubber Case Auto Batteries
- 6-Volt, 11-Plate \$10.00
- 6-Volt, 13-Plate \$12.00
- 12-Volt, 7-Plate \$14.50

Set your radio dial at 288.3 meters for the World Storage Battery Station W58C. Variety—new talent—always interesting.
Jerry Sullivan, Dir. and Announcer, CH-2-W-20

KDKA W58C WERL

The Reader's View

New Year's Resolutions for Stations

Here are a few things I wish every station would do. The smaller stations, or rather the stations with the smaller calibre personnel behind them, are the worst offenders. Come on, broadcasters, turn over a new leaf! Let's:

1. Not heterodyne. Keep away from waves of powerful stations with good programs.
 2. Give better programs, or cut the period on the air down and concentrate on quality instead of meaningless quantity.
 3. Begin and quit on time.
 4. Announce call letters plainly. Give letters, town and state at close of each number.
 5. Have a full silent night each week.
 6. Divide time with all other stations on the same wave length.
 7. Give more early morning programs.
 8. Stick to one wave length so people will know where to find you.
 9. Announce special programs several weeks ahead, especially in Radio Digest.
- With the above resolutions carried out, I feel that broadcast listening would be a far more likeable pastime.—Friend of Better Reception.

Answer to P. E. G.; Against "Chain"

In answer to P. E. G., of Mt. Pleasant, Iowa, who has it "in" for the "wave jumpers" and said that he cannot get WEAF

and other stations, I ask, what good it does to receive WEAF, WCAE, WGN, WOC, etc., when all of WEAF's programs are broadcast through the "chain"? All one needs is a crystal set to get the chain program from the nearest chain station.

I wonder if it did not seem unfair to him when 250 to 300 stations were crowded between 200 and 275 meters, while there were barely 100 stations in the great expanse of wave bands from 275 to 545? Since the 100 chosen stations would not divide time with the better newcomers, the latter were certainly justified in "jumping" their waves.

He also called the man from Muscatine, Iowa, wild for saying the chain could be broadcast on one wave length without interference. It is peculiar, then, that a patent should have been granted for just such an invention. For the control of Radio to be placed in the hands of one man or company would certainly be disastrous.—V. U., Rock Island, Ill.

Dislikes WJAZ Sunday Jazz

I must compliment you on remarks re WJAZ. Last Sunday they sent over the air

the cheapest of jazz while church services were on the air. Come, Chicago, elevate your quality or make room for others. You are known as Jazz Town.—L. E. W., Brantford, Ont., Canada.

How Many Ekko Stamps Have You?

I imagine it would be interesting for your readers who are collecting Radio stamps to learn who has the largest number of proof of reception stamps, not duplicated, thus far.

I have 262 verified reception stamps to date, including four from California, one from Mexico, two from Cuba, ten from Canada, and twenty-two from Chicago.—Robert Klein, 218 N. 6th St., Allentown, Pa.

Interference in New York City

Have read with interest your editorial on interfering stations. New York City at present has several "bad cases." The worst one, I think, is WMSG, the Madison Square Garden. This station deliberately jumps the wave length while broadcasting. I was listening about two weeks ago on a Saturday night at 10 o'clock to a beautiful concert from WLW,

Cincinnati. About six times within twenty minutes WMSG broke right in.

Other offensive stations are WFBH and WHN. WFBH, when broadcasting covers a wave band of about 70 to 80 meters; WHN even more. Then WFBH prolongs their programs always about 10 to 15 minutes. The latest pirate of the air is WNJ, Newark, which increased their wave length recently to 352 meters. That station keeps on blaring all night. How can anybody get distance? I have one of the best sets made, but I can't.

On Thursday and Friday night, October 14 and 15, WHN was on the air sending out nothing but power waves from 250 up to 465 meters. On the night of October 20 WFBH and WHN sent out an after midnight program. After signing off, one of these stations kept its carrier wave on the air all night, and you could hear the generator hum from 238 to 526 meters. What to do?—L. H., New York, N. Y.

(The reader whose opinion is quoted above is one who won a prize for excellent reception during the 1926 international reception tests.—Editor's Note.)

Sign off to sweet dreams



You enjoy radio like a gentleman—if you can get the best out of your set and forget all worry and bother. That's your happy frame of mind when you keep your batteries full of pep with a Rectigon. The most absent-minded dial twister snaps on a Rectigon without a qualm. What if you do tune in while you're still charging your battery? There's no harm done, not the slightest. What if the current does go wrong in the dead of night? Your batteries will not be discharged with a Rectigon attached.

when you keep power in your set with

The Westinghouse Rectigon Battery Charger

©, 1926, W. E. & M. Co.



Not Affected by Atmospheric Changes

Durham Resistors are Metallized and specially insulated, thus insuring permanence of resistance under all operating conditions. Maintain their resistance-standard because impervious to atmospheric influences. 500 ohms to 10 megohms. Get the new Durham Mounting—upright, saves space.

INTERNATIONAL RESISTANCE COMPANY Philadelphia, Pa.



Harmonicas Make a Happy Christmas

Everyone delights in receiving a musical instrument that he can play; and anyone can play a Hohner Harmonica.

If you want to give happiness with your gifts at Christmas-time give Hohner Harmonicas—a happy thought!

Leading dealers everywhere carry the complete line of Hohner Harmonicas—50c. and up.

The Free Instruction Book, containing favorite musical selections arranged for the harmonica, is available at dealers or direct. M. Hohner, Inc., Dept. 233, 114 East 16th St., New York.



No noise as it charges—not a bit of fuss. Not even a murmur that would disturb the mildest slumber.



No acids, no chemicals—no moving parts—nothing to spill or burn. No muss, no worry. You'll have no spoiled rugs, no ruined clothing.



Saves its cost in short order—Count the dollars spent in a few trips to the service station and you'll hotfoot it for a Rectigon, for the good it does your pocketbook as well as your batteries.



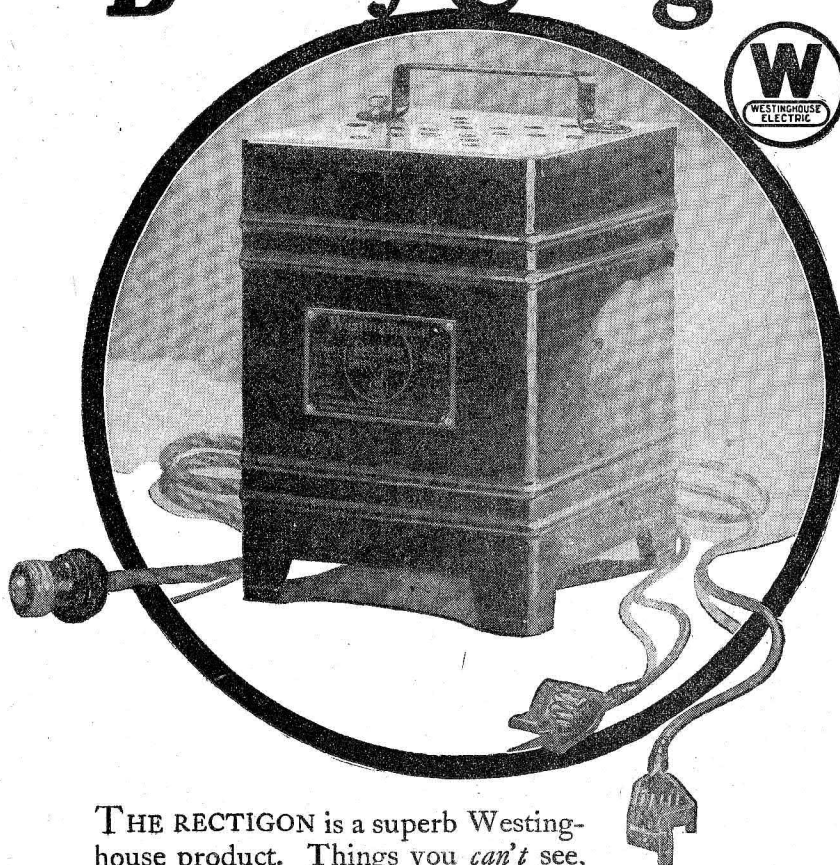
Snaps on in an instant—Just plug into the light socket, snap on the terminals. Saves service station bother. Spares interruptions caused by absent batteries.



Charges both "A" and "B" batteries—Keeps both packed with power. Bulb is used for "B" battery charging and it is enclosed, like all other parts, in metal, safe from accident. (Rectigon charges automobile batteries, too.)



No Storage Battery Radio is Complete Without a Rectigon



THE RECTIGON is a superb Westinghouse product. Things you can't see, like extra heavy insulation, things you can see, like the durably enameled case—all are of highest quality. Westinghouse also manufactures a complete line of radio instruments, and Micarta panels and tubes.

WESTINGHOUSE ELECTRIC & MANUFACTURING CO.
Tune in on KDKA KYW - WBZ - KFKX

"GOODY GOODY GIRL"

(Continued from page 10)

girl running away from a cruel step-father— Oh, you fooled me fast enough. I give you credit for that. When I learned the truth—

"When you learned the truth?"

"Oh, yes, my eyes were opened. I was told all about you. It gave me an awful jolt. Did you think I came out here tonight to get you out because I was one of that infernal crew you're mixed up with? Guess again. I came—I came—oh, damn it all, I can't lie to you. I came because, God help me, I do love you; love you, no matter who or what you are."

HE released her suddenly, threw his arms across the steering wheel and let his head drop upon them. To her consternation his body became wracked with sobs. She had never seen a man weep before. She bit her lips because she did not know just what to do. Then, impulsively, she patted his shoulder.

"Keep your hands off me or, by God, there's no telling what I'll do," he said hoarsely. His head came up with a jerk and he stepped violently on the starter.

"Wait a minute," she commanded. "There's something wrong about all this. You speak as if I were something despicable. You say that when your eyes were opened to me, it gave you a jolt. Just who or what am I supposed to be, other than what I told you?"

"Oh, drop the goody-goody girl role," he said harshly. "I know the truth. Becker told me."

"Becker? What does he know about me?"

"Stop fencing! I know that you're a crook—"

"Crook!"

"What else would you call a girl who uses her looks to entrap men, get them into compromising situations, blackmail them, bleed them for money—no, don't interrupt. I'm going to show you that I do know the truth. Becker told me how Mrs. Gayton recognized you on the train, guessed you were out to fleece me and came to my rescue; of how she took a liking to you and persuaded you to go in with Jermin instead, how you had become a decoy and fixer—"

"Oh, this is monstrous! When did Neil Becker tell you this?"

"THAT night at the club, after you and Mrs. Gayton had gone. He stopped behind to warn me; said that for all the bad blood between us he couldn't see me taken in . . . I'd have given anything if it had been anyone but him . . . Great God, how I suffered! The girl I'd fallen in love with mixed up in a bootlegging gang—"

"What! Me? A bootlegger?"

"Why don't you stop pretending? You very well know that Victor Jermin's one of the biggest bootleggers in the country, that he runs the stuff in by the dozens of trucks at a time, that—"

"Oh! You think, then, I'm involved in business like that? You think—"

"How can I do otherwise when I've seen what I've seen in the last few weeks?"

"Yet you love me?"

"Heaven help me, I do."

"Were you preparing, a few minutes ago, to ask me to marry you?"

He did not reply.

"Were you?" she persisted.

"No," he admitted in a low tone, "I was not. I didn't think married or not married would make any difference with—"

"With a girl like me? Well, it does, and since you're saving yourself for someone like that little pink-and-gold girl you were with at the races today—"

"That's my sister," he said fiercely. "You keep your tongue off her. You're not fit even to mention her."

"Very well," she agreed calmly. "Now—drive on."

The miles rolled behind them in silence. Once he essayed to speak to her, was instantly rebuffed. In front of the apartment house where Mrs. Gayton lived she

got out and without a word started for the door.

"Let's part friends," he called out. "Say good night, at least."

She whirled and faced him.

"Good night—and good bye," she said.

And now Lois was in a seething, boiling rage. She would find out what it all meant. She enters the door and finds the man she most wanted to see—Neil Becker. This is one of the most thrilling moments of her succession of adventures and you will want to read about it in the mid-December Radio Digest.

Harmless Alarm Clock Gift Is Guaranteed Not to Wake

HAVANA, Cuba.—Are you an especially good friend of PWX? If so you have probably received of late a very peculiar gift. Unwrapping the package, you would take forth what portended to be a cardboard alarm clock, but quite heavier than the usual sleep disturber.

Then you would realize that the clock represented the tick of the clock which is a symbol of PWX on the air. Next you would note that the pseudo clock was a box, and upon opening it you would look upon candy—not in the sense of the word Americans, especially Northerners, are accustomed to think of candy, but in the Cuban definition.

The candy is made of tropical fruits and Cuban cane sugar. Many people think it unpalatable; others like it as a novelty. The gift at least is original.

REDUCE BRITISH TUBE PRICES 36CTS. TO \$1.08

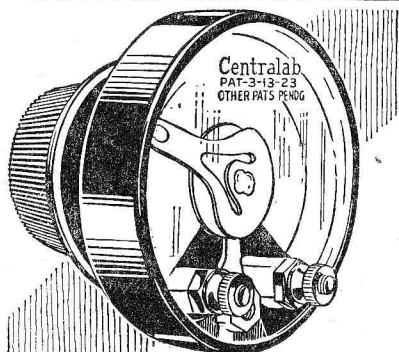
But "Bottles" Remain Most Expensive Radio Item

LONDON.—Reductions in the price of Radio tubes are being made throughout Great Britain. It is in the higher-priced tubes that the cuts have been made. They vary from 36 cents to \$1.08.

The general opinion is that the new prices will not do very much to make Radio more popular than it already is, as the tube still remains the most expensive item in the working of a set.

"There has been a regrouping and standardization of the better makes of tubes," said an official of the Valve Manufacturers' association in an interview. "There have been a number of reductions during the past few years, but new types of tubes are continually being produced."

Why are some groups of entertainers called an orchestra while others are called serenaders? Some people are under the impression that "serenaders" is just a fancy name for an every-day orchestra, but we learn from the broadcast stations that such is not the case. An orchestra is merely a group composed of musicians, not all of whom are experienced enough to play individual solo selections, whereas in a group of serenaders, each individual musician is an experienced soloist and can be called upon at any time to perform without his fellow artists.



STANDARD Centralab RadiomM

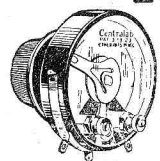
INSURES clearer, louder reception with most any radio circuit. It holds perfectly the sensitive regenerative position which immediately precedes the oscillation point.

Dependable, noiseless in adjustment, and full resistance variation with a single turn of the knob. Resistance values remain exact for life of set. \$2.00 for any resistance.

SWITCH TYPE

Centralab RadiomM

Has an "A" battery switch, also controlled by the knob, giving a double purpose control. Is variable from zero to 500,000 ohms. Also furnished in Modulator, for tone volume control in all audio circuits.



With Switch \$2.30

CENTRAL RADIO LABORATORIES
12 Keefe Ave., Milwaukee, Wis.

Makers of a full line of variable resistances for 69 makers of leading standard sets.



Tower Meistersinger CONE

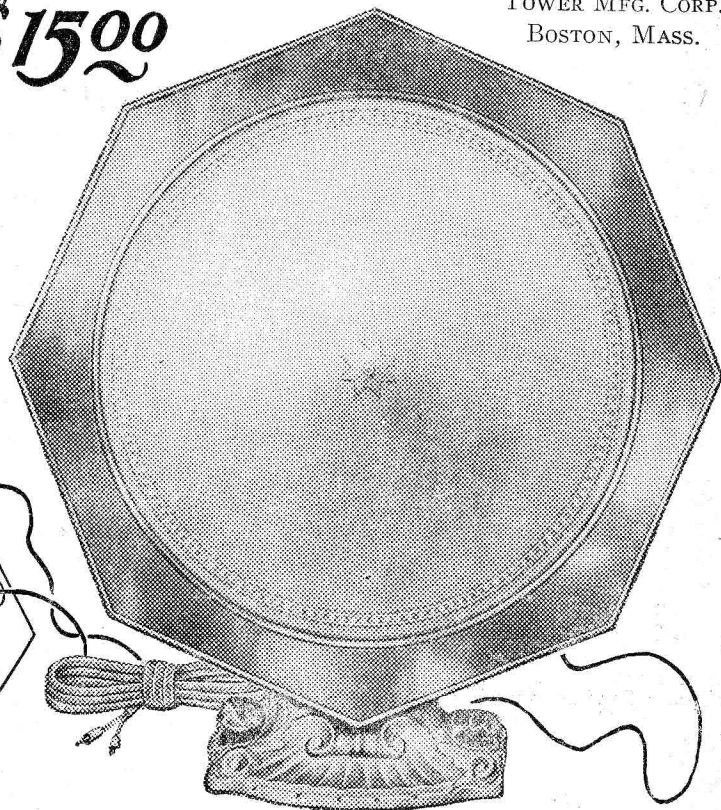
TOWER has built a new Cone—the Meistersinger—a radio speaker of dignified beauty matched only by its rare tonal capabilities. Ideal for power tube operation, the new Meistersinger can also be used as a Wall Model by detaching base. The exclusive driving mechanism and free edge cone, 16" in diameter, is protected by a solid mahogany frame and metal base with dolphin motif.

Such quality heralds the Meistersinger as a value without precedent among cone speakers—a most appropriate Christmas gift.

On Sale from Coast to Coast.

\$15.00

TOWER MFG. CORP.
BOSTON, MASS.



Merry Christmas

TUNNEY'S WIN STILL NEWS TO MOUNTIES

WESTINGHOUSE STATIONS SEND ARCTIC MESSAGES

Have Friends at North Pole? KYW, WBZ, KDKA, or KFKX Will Send Greetings

PITTSBURGH, Pa.—A Radio program of the last two months' news and messages for isolated inhabitants of the Arctic circle, was broadcast November 13 from KYW, Chicago, as the first of a series of Arctic and Sub-Arctic transmissions from the four stations of the Westinghouse Electric and Manufacturing Co. Listeners heard KYW inform residents of trading posts and detachments of Royal Canadian Mounted Police, that Gene Tunney had dethroned Jack Dempsey as heavyweight boxing champion; that violent hurricanes had taken heavy toll of life and property in Florida and the West

Indies, and that Lord Willingdon, new governor-general of Canada, had reached the Dominion to take up his duties. No mail or news has entered the Arctic region since the first boats after the spring thaw. "Mounties" Await "News"

All the Mounted Police stations in Canadian Northwest Territories; trading posts in Baffinland and Hudson Bay, and Dr. Morten P. Porsild, Danish government scientist at Godhaven, Greenland, have been provided with the schedule of broadcasts, whose future dates appear below.

Several short-wave receiving sets have been placed in remote Arctic settlements for reception of the special 63-meter broadcasts from KDKA, Pittsburgh, in addition to its 309-meter program.

Station KFKX began its Arctic programs November 19, and was followed by KDKA the next night. WBZ started November 27. The broadcasts will follow at intervals of about one month, ending March 5. The schedule follows:

KDKA, Pittsburgh, Pa., 309 meters (also on 63 meters both voice and telegraph), 10 p. m. Eastern Standard Time, December 25, 1926; January 15, 1927; February 26, 1927.

WBZ, Springfield, Mass., 333 meters,

10 p. m. Eastern Standard Time, January 1, 1927; January 22, 1927; March 5, 1927.

KFKX, Hastings, Neb., 286 meters, 10 p. m. Eastern Standard Time, December 24, 1926; January 14, 1927; February 25, 1927.

KYW, Chicago, Ill., 536 meters, 10 p. m. Central Standard Time December 18, 1926; January 8, 1927; February 19, 1927.

Do not send messages direct to stations. All communications must be sent to G. A. Wendt, Canadian Westinghouse Co., Ltd., P. O. Box 390, Montreal, P. Q., Canada.

WRR, Dallas, Moves Studio

DALLAS, Texas.—WRR, municipal station of the City of Dallas, has recently removed its studio to the Jefferson hotel, Dallas' leading hostelry. The studio is located on the roof garden, "Paradise." The Jefferson hotel is owned and managed by Charles Mangold, well known in hotel circles.

Firm Quits Selling Bloopers

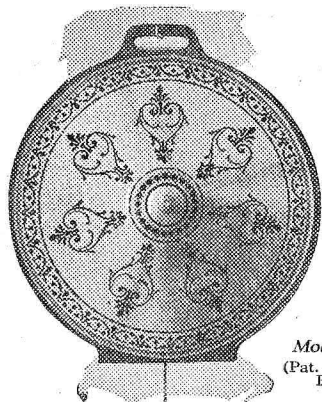
CHICAGO.—War on the Radio blooper has gained an ally in what is one of the largest retailers of Radio sets in the world

NOVEMBER 15 ISSUE IS STILL AVAILABLE

THOSE readers of Radio Digest who were unable, because of the large demand for copies of the last issue, to obtain one, may have one mailed to their home address by sending fifteen cents in stamps or currency to the offices of this publication at 510 N. Dearborn St., Chicago. The beginning of the "Game of Whozit" with the last issue, the second November number, caused a shortage of copies, but a limited supply is still available. Persons subscribing for one year (\$3) may have their subscriptions started with the second November number.

—Montgomery Ward & Co. Announcement has been made by the big mail-order house that it has entirely discontinued the sale of all blooper Radio sets.

Windsor Wall or Table Type Cone Speaker Amazes Radio World



Model 210 (Pat. Applied For)

The latest model Windsor Cone Loudspeaker has astonished the world of radio. In convenience, quality of reception, and extremely low price, it far surpasses anything yet offered. The cone is 22 inches in diameter and is mounted on a sounding board which, in turn, is supported by an easel back. It can be hung up on the wall, as in the picture above, or stood upon any flat surface as shown in the picture below. It contains the famous Windsor loudspeaker unit noted for the extreme clarity and fidelity of reproduction.



Model 210 22-Inch Cone Loudspeaker with sounding board and easel back.

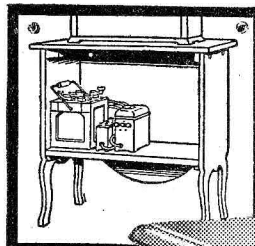
\$15.00
(West of Rockies, \$18)
(Pat. Applied For)

Model 302 (Shown below) With Moulded Composition Horn Loudspeaker and 18-inch Cone Loudspeaker.



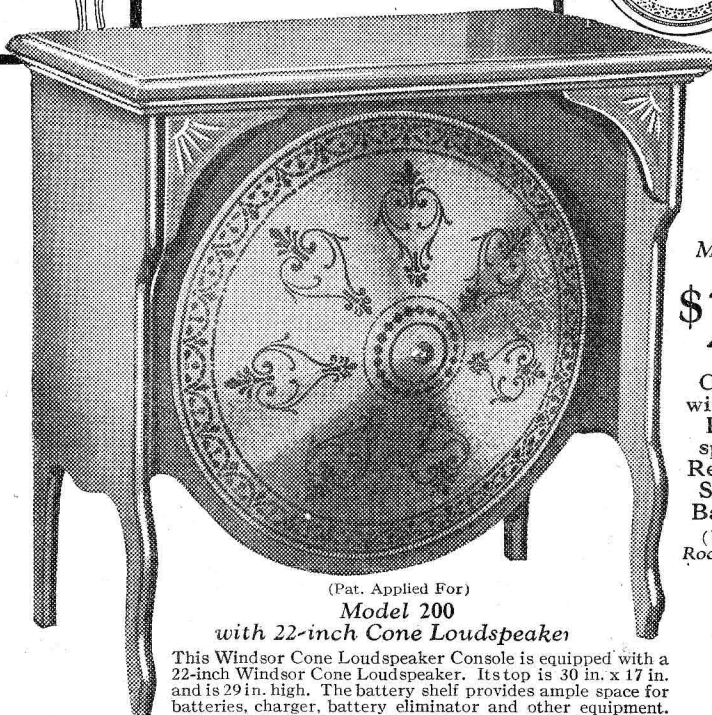
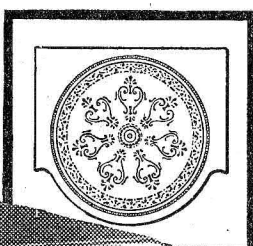
(Pat. Applied For)

In this Windsor Console is combined both the Windsor Moulded Composition Horn Loudspeaker and the 18-inch Windsor Cone Loudspeaker. The top is 30 in. x 17 in. and stands 29 in. high. Plenty of battery and equipment space is provided by large shelf in rear. Price, finished in Mahogany or Walnut **\$48.00** (West of Rockies, \$55)



Rear view at left shows large compartment with ample space for batteries, battery charger, or battery eliminator, which are entirely concealed from view. Back is open for ventilation of batteries.

At right is shown the Cone Loudspeaker, with its sounding board, which is quickly and easily removable, allowing instant access to all batteries, battery charger, battery eliminator or other equipment and wiring.



Model 200

\$29

Console with Cone Loudspeaker Ready for Set and Batteries (West of Rockies, \$35)

(Pat. Applied For)

Model 200 with 22-inch Cone Loudspeaker

This Windsor Cone Loudspeaker Console is equipped with a 22-inch Windsor Cone Loudspeaker. Its top is 30 in. x 17 in. and is 29 in. high. The battery shelf provides ample space for batteries, charger, battery eliminator and other equipment. Beautifully finished in either Mahogany or Walnut.

This Is the Fastest Selling Line of Loudspeakers and Loudspeaker Consoles in the Radio World Today



Model 100 with Moulded Composition Horn Loudspeaker or 16-inch Cone Loudspeaker (Pat. Nov. 18, 1924)

Above is shown a beautiful Windsor Loudspeaker Console, finished in either Walnut or Mahogany, which provides ample space on top for any radio set. The battery shelf beneath will accommodate all necessary equipment. Equipped with either Moulded Composition Horn or 16-inch Cone Loudspeaker. Size: 38 in. x 18 in., and 29 in. high. Price **\$40.00** (West of Rockies, \$42.50)

To the right is shown the newest Windsor Loudspeaker Console. It is equipped with a 22-inch Cone Loudspeaker and cabinet suitable for 7-in. radio panels up to 26 inches in length. Battery shelf provides ample space for all equipment. Beautifully finished in either Walnut or Mahogany. Price (without receiving set) **\$44.00** (West of Rockies, \$52.00)

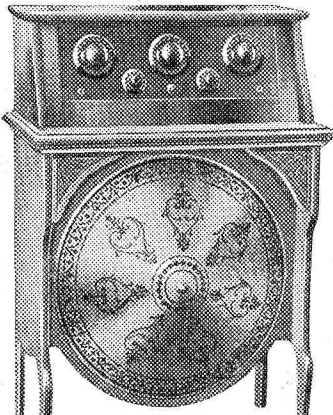
Note to Dealers: Write or wire today for details of the highly profitable Windsor line.

Electrical Department

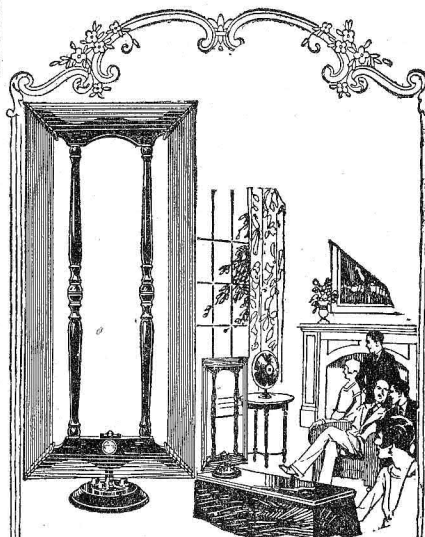
WINDSOR FURNITURE COMPANY

1418 Carroll Avenue - CHICAGO, ILLINOIS
Los Angeles Branch—917 Maple Avenue

The quality of radio reception made possible by Windsor Cone and Horn Loudspeakers and Loudspeaker Consoles so far surpasses anything heard heretofore that it amazes and delights every radio enthusiast. The Windsor Line is so complete that everyone can find in it a loudspeaker, loudspeaker table, or loudspeaker console exactly to fit their particular needs.



(Pat. Applied For) Model 1000 with 22-inch Cone Loudspeaker



An Efficient Loop of Surpassing Beauty

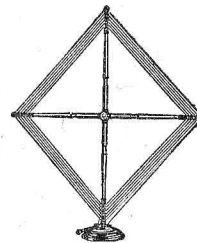
The Bodine De Luxe Loop fulfills perfectly the long felt need for a compact beautiful loop—outstandingly efficient. The symmetrical frame of solid walnut, handrubbed to a beautiful finish, black bakelite mountings, and attractive silk covered windings combine in producing a loop of outstanding beauty.

Despite its compact size the De Luxe Loop brings in stations with amazing power. Sharper selectivity due to directional tuning improves tone quality.

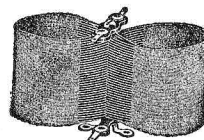
Designed for standard loop sets but can be used effectively with most aerial sets. Write for free illustrated booklet that tells how. Price, Bodine De Luxe Loop, all models, \$12.00.

Bodine Folding Loop

Exceptionally directional, remarkably efficient. Because of the Basket-weave method of winding the Bodine Folding Loop brings in the long distance stations. Sliding sleeves conceal the hinges of the English Mahogany frame in operation. Folded it fits a box only 3 1/2" x 6" x 18". Ideal for camping too! Holds shape under long service. Price, Bodine Folding Loop, \$8.50 to \$10.00.



Bodine Twin-Eight R. F. Transformers



Greater amplification, less interference with other parts, sharper selectivity, are features of these improved coils that amaze manufacturers and set builders alike.

No type of toroidal or doughnut coil can compare with Twin-Eights. Improves all tuned radio frequency hookups. Compact and small, easy to install. The boon of amateur set builders. Write for hookup of the Bodine Twin-Eight Receiver which uses Twin-Eight Coils. Buy Twin-Eight Coils from your dealer today. Price \$2.00 per coil, three matched coils \$6.00.

Mail the Coupon

BODINE ELECTRIC COMPANY
2260 West Ohio Street
Chicago, Illinois
Kindly mail FREE circular describing:
Bodine Radio Loops
How to use a loop with aerial receiver.
How to build the Bodine Twin-Eight Receiver.

Name _____
Address _____

Radio Digest Illustrated

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Vol. XIX

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No. 4

Frankly, Is It Good Business?

WE HAVE just thought up an original idea. If we were in the bootblacking or banana peddling business, we would put it into effect immediately, but not being engaged in either of these two or similar occupations, we suppose we must wait.

The idea is this: We would start a broadcasting station. Of course the idea is not strictly original, but inasmuch as there are only about seven hundred other business concerns operating broadcasting stations at this time, you can see that the idea is almost original.

Sarcastic? Not us! We really would start a broadcasting station, and after we got it started we would try to find why we ever started it. Of course, we couldn't sell bananas or polish shoes by Radio, but then we might drum up a little business—and, "Business is business." Maybe we could give wonderful educational talks on the use and abuse of banana skins when spread upon the sidewalks, or perhaps we might tell our eager listeners how to tie their broken shoe strings together until they could reach our store to buy new ones.

People who buy Radio sets probably don't know all there is to know about bananas or blacking boots. They no doubt would welcome our coming on the air just in time to blast out a splendid rendition of light opera from a genuine, honest-to-goodness broadcasting station several hundred miles away that is really trying to entertain the invisible audience and give them the best in music and service.

Yes they would—NOT!

Hearken ye wave-choosing stations that have nothing to offer the five million or more members of the great fraternity of broadcast listeners! Hearken, stop and think once again before you turn your 500-watt congestion manufacturing machines loose on the ether to do no good but much harm.

For some day, be it through an act of congress (if congress ever acts) or be it through a violent revolution of Radio fans, a lot of broadcasting stations operated unwisely by banana peddlers, bootblacks and similar business concerns are going to find themselves debarred from using the ether. And by the same token, these same business concerns will find that instead of building "good will," their broadcasting activities will have done nothing more than made enemies of a once faithful group of customers.

Why There Is "Congestion"

A GOOD friend asked us the other day why it was not possible to separate two stations broadcasting simultaneously on the same wave length. His question brought to light a fact we had overlooked, which is that the majority of present day listeners know little, if anything, about Radio technicalities.

To stop other listeners from believing that it is practically possible to separate two stations broadcasting at the same time on the same, or very close wave lengths, we are going to give our answer to that question.

Suppose two railroad trains were running toward one another on a single track. Unless they stopped, there would be a wreck when the two trains met. Now suppose both trains were very, very long and were being pushed instead of pulled by their respective locomotives. After the first crash of coaches, the coaches of the two trains would continue to crash with one another or with the wreck of the preceding coaches.

In Radio, when two stations, either broadcasting or code, use the same or closely adjacent wave lengths at the same time, the Radio wave trains of each station are, of necessity, running toward one another continuously and always crashing with the wave trains of the other station. They cannot do otherwise. You hear the wreck. It is a whistling, howling sound like the blowing of a high wind. What is worse, you cannot tune out that continuous objectionable sound with any receiver made. The set or device that will totally and effectively separate two stations on the same wave length has not yet been invented.

RADIO INDI-GEST

Setting-Up-and-Down Exercises

Leading Broadcaster to Revolutionize Industry

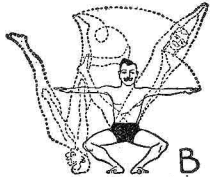
Future Youths of America to Develop into
Nation of Acrobats

By Perry Charles, Announcer of WPAP

A MOST noted professor, whose name we cannot divulge at this present moment of writing, has been temporarily engaged by Station WPAP to present a series of setting-up-and-down exercises. Of course, he really hasn't, but it makes a good story.

All that is necessary is for the listener to tune in on WPAP at 3:45 any morning and begin immediately the short cut to health or death as the case may be.

A simple albeit sweet little thing, cheerfully called "The Jolly Periscope," is lesson A. (See illustrations as we go rambling along.) This is most heartily recommended to those preferring a quick exit up the aisle to those that dread the long awaited inevitable toot of Gabriel's saxophone.



A—The Jolly Periscope C—The Reverse English
B—The Allay Oop

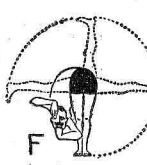
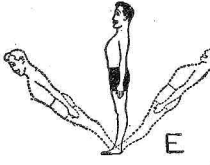
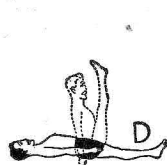
We will now cheerfully spring into lesson B. It's "The Allay-oop." We cannot insult the intelligence of our vast reading public by going into details on this simple of exercises. The professor has called this "merely a tuning up exercise, one designated to take the kinks out of muscles and hair and is applicable to all ages." May you rest in peace.

"The Reverse English" is lesson C. This is specifically to be used only when the occasion to which it is applicable arises.

For instance, you are walking rapidly down Broadway when suddenly someone calls you, thus:

"Hey, Skunkton," or Fuesel or whatever your name is. Instead of turning the entire body around, looking wild-eyed in the direction of the call, losing time and temper, all that is necessary is to "Reverse English," keeping right on walking and losing no time.

No one has ever thought this up before and right now I would like to claim any credit that you might like to give. Or what have you?



D—The Cheerio E—The Zoom-a
F—The Entente Cordiale

"The Entente Cordiale" is a surprise exercise for your dentist. See F. How many times have we dreaded going to the chair? The dentist's chair, naturally, we mean. How many times, with the limbs akimbo, shaking and trembling, a taste in the mouth like a feed and animal store and a feeling that the mind has left the body.

After you have mastered this "Entente Cordiale," you skip gaily into his office and immediately do your stuff. Imagine the joy of your dentist! There you are sitting pretty, just right for the "works."

Sorry, but "The Cheerio" and "The Zoom-a" are two new steps in the Blackbottom and shouldn't really be listed as an exercise, but merely as two new steps.

Tune us in again tomorrow morning at 3:45. Good night, kiddies!

Radiotics

Silvery tubes of makes assorted
Catch the message from the air,
And, if they by chance are "shorted,"
Cost you just four bucks a pair.

Then the amplifier unit
Causes many fans to curse:
When you turn the knob to tune it
You just make bad matters worse.

For static noises so appalling
A resemblance long I've sought,
And I find they sound like falling
Water on a stove that's hot.

Batteries, first with care selected,
Like some folks of whom you've read,
Live their lives by all neglected
But are fussed o'er when they're dead.
GEORGE

Before signing off, George adds, "Having noted that 'Barbara' is of the opinion that 'George' does not wear socks, I would say in reply that he wears articles which he spools 'Sox.' They are of the bachelor variety. You know the kind—open at both ends; put 'em on from either end. He sometimes calls them his 'Radio Sox' as they broadcast seven day programs on a two-foot wave length. Station call RENU."

Living Up to Its Name

Dear Indi: Third item of Dielectric in the Second October number speaks of Jazz from WJAZ. What could you expect from such a name?
H. B. C.

The Three Whoziteers



Condensed

BY DIELECTRIC

"Whozit" said they met with interference when attempting to tune in WGN? Is it possible that any one anywhere finds interference from broadcasting stations shifting their waves or jumping their power by two, three or five times—except the poor Radio reviewer? In order to "get by" some stations, whose programs are readily picked up for review, and listen in to others more remote or having less power output, it is necessary to set an alarm, get some sleep, then invent some way to be pleasant when you return to the receiver partially awake. More often than not you find at such times that features other than dance music have come and gone. So another night trap is set with much the same result. However, by diligently setting one's mind to the task of ignoring heterodynes, blurred music and injudicious expressions it is possible to grasp enough of a program to make some expression about its worth.

The anniversary program put on by Station KDKA, Pittsburgh, was not only entertaining, it was educational from the standpoint of Radio history. Those of us who recall the first broadcasting from this world's pioneer can fairly value the tremendous improvements in broadcasting since that memorable day. Comparing the transmission from this, or any other station, years back to what was heard that evening should make us grateful to the engineering skill effecting the change. The quality of musical sound and spoken word are now nearly perfect and so evidenced as speakers reviewed the high lights in KDKA's history and the orchestra rendered its part in the celebration. Especially enjoyable was the singing of a mixed quartet.

Out in Omaha, they have access to musical talent worthy a place on any program. Also Station WOAW, located there, has the privilege of broadcasting concerts from one of the finest organs in the country and Mr. Thornton knows his instrument. Then, too, we have recently listened to both male and female vocalists in whose singing all might take pleasure. The work of a chorus was particularly praiseworthy for its musical intelligence and vocal attainment. Too many choruses are unbalanced; sopranos or tenors predominate to the practical exclusion of the other two choirs. This fault was entirely absent. A very lovely rendition of that old favorite, "Believe Me If All Those Endearing Young Charms," sympathetically played as a harp solo, added much to the evening's broadcast.

Stars of the screen, opera, musical and stage world appear with fair frequency before our mikes, but so great an actress and unique a figure as Julia Marlowe finds entrance to broadcasting studios at rare intervals. Her "Juliet," enlivened by the introduction of trumpet, male quartet and tenor "Romeo," was no more a masterpiece than her delineation of "Katharina," the chastened shrew. More modern poetry showed her equal in versatility as in classic reading of Shakespeare's dramas. We beg for a rehearing.

With the coming of so many leading symphony orchestras on the air it is possible to become hypercritical of all others. We trust that will not follow. By dint of the ignoring process outlined above I was able to sit listening with keen enjoyment to an orchestra playing choice selections broadcast by Station KOA, Denver. The violins were notable for their precision and flexible bowing, and the ensemble was above reproach. The director led his players as would an organist familiar with each stop and its peculiar effect. More of such playing heard nightly would be well.

Radiophone Broadcasting Stations

Listed by Wave Lengths—Dec. 1, 1926

Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location		
UNITED STATES STATIONS BY WAVE LENGTHS																					
202.6	1,480	500	KFXB B. B'r Lk., Cal.	238	1,260	15	KFBS Trinidad, Colo.	260.7	1,150	500	KFJF Okla. C., Okla.	299.8	1,000	1,000	475.9	630	3,300	WBAP Ft. W'th, Tex.			
		50	KGBY Shelby, Nebr.	125		125	KFCB Phoenix, Ariz.			100	KFMR Sioux City, Ia.		750	500			750	WFAA Dallas, Tex.			
		50	WEBS Chicago, Ill.	100		100	KFWU Pineville, La.			1,000	KSEI Pocahontas, W. Va.		1,000	1,000	483.6	620	5,000	WTIC Hartford, Conn.			
204	1,470	100	WBSB Elizabeth, N. J.	100		100	KFJV Houston, Tex.			100	WABO Haverd, Pa.		100	100	500	5,000	5,000	WUCI Davenport, Ia.			
		50	WBBB Pittsbg., Mich.	200		200	KMRC S'm'a'nica, C.			1,000	WABC Md.Hlse, Mass.		1,000	1,000	485.1	618	500	500	WVLI Iowa City, Ia.		
		50	WJBS Wash. D. C.	10		10	WHBN St. Ptsbg., Fla.			500	WDAV Fargo, N. D.	302.8	990	1,000	491.5	610	1,000	1,000	WJAR Pr'v'dnce, R.I.		
		50	WABW Harrisb'g., Pa.	3,500		3,500	WHT Chicago, Ill.			500	WEAM N. Plid., N. J.		1,000	1,000	499.7	600	500	500	KGW Portland, Ore.		
		250	KFVD Venice, Cal.	200		200	WKBA Chicago, Ill.			500	WMAZ Macon, Ga.		500	500	500	5,000	5,000	5,000	WCFM Chicago, Ill.		
		100	KFXD Logan, Utah	10		10	WRAW Reading, Pa.			1,000	WSSK Bay C., Mich.		500	500	500	5,000	5,000	5,000	WCFM Chicago, Ill.		
		100	WFRL Br'klyn, N. Y.	239.9	1,250	10	KFHL Oskaloosa, Ia.			100	WSSH Boston, Mass.		1,000	1,000	499.7	600	500	500	WCFM Chicago, Ill.		
		100	WPDQ Buffalo, N. Y.	100		100	KFLX Calv'st'n, Tex.			100	WSTAR Norfolk, Va.		1,000	1,000	508.2	590	3,300	3,300	WCFM Chicago, Ill.		
206.8	1,450	50	KGTT San F'nco, Cal.	100		100	KFUM Col. Spgs., Col.			100	WTAR Norfolk, Va.		1,000	1,000							
		50	WABW Wooster, O.	5000		5000	KFVE St. Louis, Mo.			263	1,140	100	KFJR Portland, Ore.								
		50	WJBA Joliet, Ill.	250		250	KFVI Houston, Tex.			100	100	KFUT Salt Lk.Cty., U.		312.3	950	1,000	1,000	1,000	KSBM Shrevept, La.		
		50	WCBR Prov'ce, R. I.	100		100	KGCI Newark, Ark.			100	100	KGCM San Ant., Tex.		312.6	959	1,000	1,000	1,000	KWKH Shrevept, La.		
		200	WIBH N. Bld., Mass.	100		100	KGSA Ant., Tex.			100	100	KTBR Portland, Ore.		315	951.8	500	500	500	WGBS N. Y., N. Y.		
		200	WKBA Chicago, Ill.	100		100	KZM Oakland, Calif.			500	500	KTUE Houston, Tex.			500	500	500	500	WGES Chicago, Ill.		
		50	KCCN C'n'rdia, Kan.	500		500	WCAT Rp. City, S.D.			500	500	WAAM Newark, N. J.		315.6	950	500	500	500	WBSI So. Bend, Ind.		
		250	KFWO Avalon, Cal.	100		100	WDBO Wtr. Pk., Fla.			1,000	1,000	WAD Canton, N. Y.			250	500	500	500	KFDM Beaum't, Tex.		
		100	WJBU Lewisb'g., Pa.	100		100	WGBI Scranton, Pa.			1,500	1,500	WCAR San Ant., Tex.				500	500	500	KFDM Beaum't, Tex.		
		50	KFWV Portland, Ore.	100		100	WQAX Trenton, N. J.			5	5	WCBN N. Orlins., La.				500	500	500	KFDM Beaum't, Tex.		
		100	WMLM Wash., D. C.	20		20	WTRC N. York,N.Y.			100	100	WDAG Amarillo, Tex.				500	500	500	KFDM Beaum't, Tex.		
		500	KFWF St. Louis, Mo.	240	1,249	10	KCCX Vida, Mont.			500	500	WDGY Mnpls., Minn.				500	500	500	KFDM Beaum't, Tex.		
214.2	1,400	15	KFXR Okla. C., Okla.				KXRO Seattle, Wash.			100	100	WEBZ Savannah, Ga.				516.9	580	5,000	5,000	KFDM Beaum't, Tex.	
		50	KFYF Oxnard, Calif.				KFYF Oxnard, Calif.			100	100	WSDA N. Y., N. Y.				500	500	500	500	KFDM Beaum't, Tex.	
		150	WCLS Joliet, Ill.	241.8	1,240	50	KFFP Moberly, Mo.			250	250	WHPB B. Cr'k, Mich.				555.2	540	500	500	KFDM Beaum't, Tex.	
			KFJM Prescott, Ariz.				KFFM Gr'nvill, Tex.			265	1,131	500	WBCN Chicago, Ill.				325.9	920	1,000	1,000	KFDM Beaum't, Tex.
		50	KFQW Seattle, Wash.				KFXE Paso, Tex.			265.3	1,130	500	WCAH Columbus, O.				329.5	910	10,000	10,000	KFDM Beaum't, Tex.
215.7	1,390	50	KFJX Colorado				WABY Phila., Pa.					500	WCAJ Trenton, N. J.				331	905.3	50	50	KFDM Beaum't, Tex.
		50	KFJM Prescott, Ariz.				WBCB Oxford, Miss.					1,000	WENR Chicago, Ill.				333.1	900	100	100	KFDM Beaum't, Tex.
		50	WBZ (Portable)				WBCS U. S. (Ptb.)					1,000	WGHV Cl'r'w'r, Fla.								KFDM Beaum't, Tex.
		50	WBL Chicago, Ill.				WBGH Superior, Wis.					1,000	WMAL L'ck'p't, N.Y.								KFDM Beaum't, Tex.
		50	WBHM Chicago, Ill.				WHOG H't'g't'n, Ind.					100	WTAB Fall R., Mass.								KFDM Beaum't, Tex.
		500	WBPH Phila., Pa.	242	1,239	250	WOOD G. Rps., Mich.					2,500	KFEQ Oak, Neb.								KFDM Beaum't, Tex.
		50	WIBJ (Portable)	243.8	1,230	50	KFVR Denver, Colo.					500	KFH Wichita, Kan.								KFDM Beaum't, Tex.
		100	WKBG Chgo. (Ptb.)				KGAR Tucson, Ariz.					10	KFRC S. Fran., Cal.								KFDM Beaum't, Tex.
		100	WKBM N'b'gh, N. Y.				KUOM Missoula, Mo.					50	WFBB Chstn., S. C.								KFDM Beaum't, Tex.
		100	WPRC Harrisb'g., Pa.				WAMJ Mpls., Minn.					100	WDEL W'rt'n, N. Y.								KFDM Beaum't, Tex.
		150	WRST, Bay Sh., N. Y.				WATT Mass. (Pt.)					250	WDFW W'rt'n, N. Y.								KFDM Beaum't, Tex.
		500	KFAF San Jose, Cal.				WBR Buffalo, N. Y.					100	WJAM C. Rps., Ia.								KFDM Beaum't, Tex.
		500	WFKB Chicago, Ill.				WGBF Freep't, N. Y.					100	WBO N. Orlins., La.								KFDM Beaum't, Tex.
		5,000	WOK Chicago, Ill.				WBRX Phila., Pa.					500	WNOX Knxv., Tenn.								KFDM Beaum't, Tex.
217.3	1,380	10	KFJC Jct. City, Kan.	244	1,229	100	WKBF Indpls., Ind.					100	WDRN N. Hvn., Con.								KFDM Beaum't, Tex.
		50	KFRW O'p'ia, Wsh.				KDYL S. L. Cy., Utah					500	KGU Honolulu, Hwi.								KFDM Beaum't, Tex.
		10	WBBU And'r's n, Ind.	245.8	1,220	15	KFJI Astoria, Ore.					100	WBAO Decatur, Ill.								KFDM Beaum't, Tex.
		250	WIBI Flushing, N. Y.				KFJY Ft. Dodge, Ia.					500	WBAR Sibley, Wis.								KFDM Beaum't, Tex.
		50	WJBI Red B'k, N. J.				WABX Mt. Cms., Mich.					500	WDBE Atlanta, Ga.								KFDM Beaum't, Tex.
		50	WWSV Buffalo, N. Y.				WABZ B'tim'e, Md.					1,500	WDFW W'rt'n, N. Y.								KFDM Beaum't, Tex.
			KRAC Sh'v'port, La.				WACA Carthage, Ill.					500	WGST Atlanta, Ga.								KFDM Beaum't, Tex.
			WKBY Dnle, Pa. (pt.)				WBR Steubenv'le, O.					500	WJBL Decatur, Ill.								KFDM Beaum't, Tex.
220.4	1,360	50	KFUU Oakland, Cal.				WQAE Spr'gfield, Vt.					100	WKBW W'bst'r, Mass.								KFDM Beaum't, Tex.
		100	WIBW L'g'nsp't, Ind.				WKR Dallas, Tex.					750	WOT Ames, Iowa								KFDM Beaum't, Tex.
		500	WKBI Chicago, Ill.				WSOE M'w'kee, Wis.					100	WTAW Cl. Sta., Tex.								KFDM Beaum't, Tex.
		500	WQAA W'rt'n, N. Y.	222	1,350	100	KFIF Portland, Ore.					250	WBAW W. Lai., Ind.								KFDM Beaum't, Tex.
		500	KZQR Manila, P. I.				KFBJ Marsh'lt'n, Ia.					1,000	WIOJ Miami, Fla.								KFDM Beaum't, Tex.
		100	KZRV Norfolk, Va.	247.8	1,210	100	KFOX Omaha, Neb.					250	WBJ N. Y., N. Y.								KFDM Beaum't, Tex.
		100	WBS Tak. Pk., Md.				KFRB Beeville, Tex.					100	WFAM St. Cl'd, Minn.								KFDM Beaum't, Tex.
		100	WHDH B'll'm't'n, Pa.				KFYL Bism'rk, N.D.					500	WHK Cleveland, O.								KFDM Beaum't, Tex.
		100	WHBF Rock Isl., Ill.				KWG Stockton, Calif.					100	WIL St. Louis, Mo.								KFDM Beaum't, Tex.
		100	WIBG Elkins Pk., Pa.				WBRX B'm'gh'm, Ala.					500	WPCB N. Y., N. Y.								KFDM Beaum't, Tex.
		100	WIBU Poynette, Wis.				WCSO Springfield, O.					100	WRM Urbana, Ill.								KFDM Beaum't, Tex.
		223.7	1,340	100			WGAL Lancaster, Pa.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		100	KFBL Everett, Wash.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		50	KFQP Iowa City, Ia.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		50	KFUR Ogden, Utah				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		500	KFVS C. G'd'g't, Mo.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		50	WBMS N. B'n, N. J.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		50	WKAU L'c'n'ia, N. H.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		100	WNRC Grsbro., N.C.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		100	WRAF Laporte, Ind.				WIOJ Miami, Fla.					250	WWSB St. Louis, Mo.								KFDM Beaum't, Tex.
		225	1,333	10			WIOJ Miami, Fla.														

MABEL GARRISON OVER WEAF CHAIN

HIGH LIGHTS OF THE AIR

COON-SAUNDERS Night Hawks have found a new Radio home. They disappeared from the programs of WGN several weeks ago and the dial refused to tune in the well known antics of these original Kansas City Night Hawks. However, their frolics may now be heard from WBBM.

Little Jack Little is spending the first week in December at Hot Springs National Park, Arkansas, and will be heard nightly from KTHS. This little bit of information is just to help Marcella a bit. She gets swamped with requests as to his whereabouts.

The musical scenarios from WBAL, Baltimore, written by Broughton Tall are interesting a new class of listeners. These programs combine educational features and entertainment in a pleasing manner. By tuning in WBAL Friday, December 3, at 10 p. m. Eastern time, you can get a

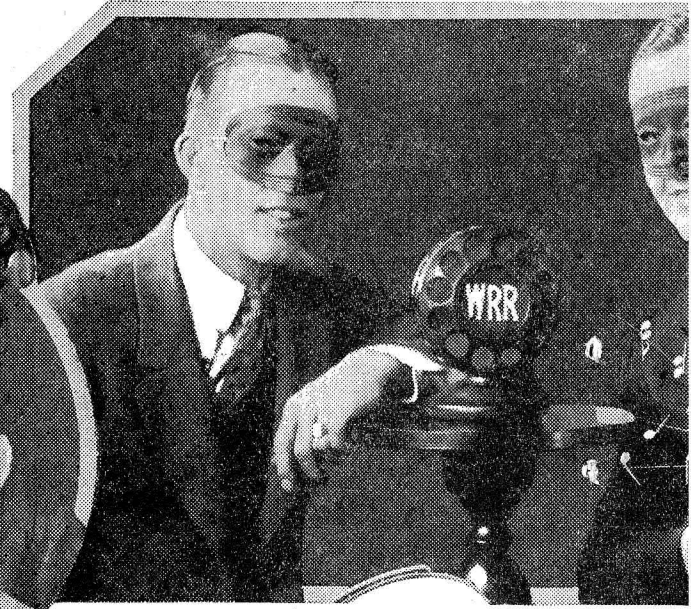
bird's-eye view of the evolution of American music.

Both Saturdays, December 4 and 11, the Boston Symphony orchestra will be broadcast by WBZ, WJZ, WGY, and WRC. December 4 also marks the seventh concert given during the Balkite hour by Walter Damrosch over the WEAF chain. This Saturday the New York symphony gives the program. Next Saturday Mr. Damrosch gives Acts 1 and 2 of Wagner's "Gotterdammerung."

Atwater Kent artists singing the first part of the month from WEAF are Mabel Garrison, soprano, December 5, and Frances Alda, December 12.

Santa Claus is making his appearance at many of the stations even this early in the month. The Christmas carols to be given by the William Hengerer Company choral society, December 13, at WGR, bring the holiday season even closer.

Although only nineteen the young musician below, Lillian Rehberg, is one of the best cellists in the United States. She is a staff artist of the Edison studio of KYW, Chicago, and may be heard between 9 and 9:30 p. m. Central time in solo or ensemble numbers.



Here is the Mysterious Duo which is being featured on six years old and we understand with masks removed two popular artists of the air receive would do justice. Both are well known Dallas artists and veter

WEDNESDAY, DECEMBER 1

Headliners

Eastern	Central	Mountain	Pacific
7:30 p. m.	6:30	5:30	4:30
WOC (483.6m-620kc) Voss Vagabonds.	7	6	5
WQJ (447.5m-670kc) Operatic hour.	8	6:30	5:30
8:30	7:30		
WCAU (277.6m-1080kc) Alexander Skibinsky, violinist.			
WHS (399.8m-750kc) Virginia Vetter's Entertainers.	8:45	7:45	6:45
8:45	7:45	6:45	5:45
WCO (416.4m-720kc) Eleanor Poebler, soprano. Corinne Jordan, entertainer.	9	7	6
WDAF (365.6m-820kc) Ivanhoe band.	10	9	7
KTHS (374.8m-800kc) Folk song favorites, ensemble.			
WCAU (277.6m-1080kc) Stan Lee Broza and Dave Kolontz, comedy.			
WIZ (454.3m-660kc) Record boys.			
WLW (422.3m-710kc) Heerman trio.	10:15	9:15	8:15
10:15	9:15		7:15
KFOU (545.1m-550kc) "Is It Lawful to Give Tribute to Caesar?" Lyric quartet.			
KOA (322.4m-930kc) Newest dance steps.			
10:30	9:30	8:30	7:30
WCO (416.4m-720kc) Flute and clarinet trio.			
WEAF (491.5m-610kc) "Trial by Jury," WEAF Light Opera company.	11	10	9
WHN (361.2m-830kc) Clarence Williams' trio.			
WSM (282.8m-1060kc) Peabody ensemble.			

KDKA Pittsburgh, Pa. (309.1m-970kc) 6:15 p. m. KDKA string quartet; 8, concert; 9:30, R.V.B. trio.
PWX Havana, Cuba (399.8m-750kc) 8-10 p. m. Band concert; 10-12, orchestra.
WAAM Newark, N. J. (263m-1140kc) 8 p. m. Monogram Melody Makers; 8:30, Caldwell Garden entertainers; 9, Castleberg's Diamond concertiers; 9:30, program; 10, Bill McWalters; 11, Four Towers orchestra.
WAHG Richmond Hill, N. Y. (315.6m-950kc) 7:30 p. m. Margie Make-believe; 7:45, studio program; 8:15, Sterling male quartet; 8:45, Sterling male quartet; 9:25, Good Humor Boys; 10:02, popular program.
WBZ Springfield, Mass. (333.1m-900kc) 7:15 p. m. orchestra; 7:30, nature league; 8, musicale; 9, Barnstormers; 9:30, musicale.
WCAE Pittsburgh, Pa. (461.3m-650kc) 6 p. m. orchestra; 8, recital; 8-11:30, WEAF.
WCAU Philadelphia, Pa. (277.6m-1080kc) 7:30 p. m. Snellenburg recital; 8, popular program; 10, Cheer-up club.
WCWS Bridgeport, Conn. (285.5m-1050kc) 8 p. m. Melody Boys; 8:30, musicale club; 10:30, theater presentation.
WCX Detroit, Mich. (516.9m-580kc) 6-7 p. m. Dinner program, Goldkette ensemble; 8-9 studio program.
WDBO Winter Park, Fla. (239.9m-1250kc) 9 p. m. Chamber of Commerce; 10, musical travels.
WEAF New York, N. Y. (491.5m-610kc) 6 p. m. dinner music; 7, Synagogue services by the United Synagogue of America; 7:30, United States Army band; WTAG, WIAR, WTAM, WRC; 8, Salon concert; WIAR; 8:30, Davis Saxophone Octet, WIAR, WRC, WCAE, WEEL, WLIT, WCSH, WGR, WSAI; 9, Irma Troubadours, WEEL, WGR, WRC, WCAE, WIAR, WSAI, WCO, WLIB, WSAI; 9:30, Moment musicale, WEEL, WGR, WCSH, KSD, WWT; 10, Smith Bros., WTAG, WGR, WRC, WCAE, WWT, KSD, WOC, WSAI, WCO, WDAF; 10:30, WEAF Light Opera company, WCAE; 10:30, Ben Bernie orchestra from the Hotel Roosevelt.
WEA Columbus, Ohio (293.9m-1020kc) 8:45 p. m. musicale.
WEEL Boston, Mass. (348.6m-860kc) 8 p. m. musicale; 8:30-10, WEAF; 10, Joe Rines and his Palais Royal orchestra.
WFI Philadelphia, Pa. (394.5m-760kc) 6:45 p. m. Adolphia dance orchestra.
WGB Clearwater, Fla. (265.3m-1130kc) 8:30 p. m. open house.
WGHP Detroit, Mich. (270.1m-1110kc) 6 p. m. dinner concert, Hotel Tuller; 8-10, concert.
WGR Buffalo, N. Y. (319m-940kc) 6:30-7:30 p. m. piano recitals; 8, poems; 9-10:30, WEAF.
WGY Schenectady, N. Y. (379.5m-790kc) 7:30 p. m. Eastman theater; 8:30, musicale, WHAM; 10, WFB, program.
WHN Lexington, N. Y. (361.2m-830kc) 7:30 p. m. Loew's Lexington Theatre organ recital; 9:30, Loew's 7th Ave. Theatre concert; 10, Roseland dance orchestra; 11:30, Silver Slipper orchestra; 12, Cotton club orchestra.
WIP Philadelphia, Pa. (508.2m-590kc) 6:05 p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; (468.5m-810kc)
WJAX Jacksonville, Fla. (336.9m-890kc) 8-8:30 p. m. Popular program; 8:30-9:30 classical program; 9:30-10, studio program.
WJR Detroit, Mich. (516.9m-580kc) 7 p. m. Jean Goldkette's Petite symphony orchestra; soloists; 7:45, Good Will Oakland and Chief Pontiac; 9, studio program; 11, Murphy Brothers, organist, tenor, baritone; 12, Merry Old Chief and his Jesters.
WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Hotel Commodore dinner orchestra; 8, Imperial Imps; 8:30, Dubeher Hampden Watchmakers; 9, E. A. White hour; 10:30, Hotel Astor dance orchestra.
WKRC Cincinnati, Ohio (325.9m-920kc) 8:15 p. m. Hotel Alms orchestra; 8:30, "The Easy Tenor"; 8:50, Eugene Schmitt; 9, Everfresh program; 12, dance music.
WLIB Philadelphia, Pa. (394.5m-760kc) 8 p. m. Concert orchestra; 8:30, WEAF; 9, Stanley theater hour; 10, dance orchestra.
WLW Cincinnati, Ohio (422.3m-710kc) 7 p. m. Robert Visconti's orchestra; 7:40, Robert Visconti's orchestra; 10, Heerman trio; 11, organ recital; Johanna Grose.
WLW New York, N. Y. (288.3m-1040kc) 10 p. m. musicale.
WMAK Buffalo, N. Y. (265.5m-1130kc) 7:30 p. m. Eastman theater, WGY; 8:15, WHAM program; 9, musicale; 10, WFB.
WMCA New York, N. Y. (340.7m-880kc) 6 p. m. Ernie Golden and his Hotel McAlpin orchestra; 7:30, Finkenberg's Radio Franks; 9, Altsuhl's quartette; 10:30, Nest Club orchestra; 12, McAlpin entertainers.
WNYC New York, N. Y. (526m-570kc) 6:10 p. m. Piano selections.
WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. Hotel Sylvania dance orchestra; 8:10, lecture, Temple university; 8:30, Sesqui Centennial concert; 10, Fox theater orchestra; 10:30, Sam Brown's dance orchestra.
WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Jacques Jacobs' Hotel Shelton ensemble; 6:45, Bill Wathey in sports; 7, Jacques Jacobs' Hotel Shelton ensemble; studio Guild hour.
WRC Washington, D. C. (468.5m-810kc) 7 p. m. Lee House trio; 7:30, U. S. Army band; 8:30-9, WEAF; 9, WEAF; 9:30, staff program; 10, WEAF.
WRVA Richmond, Va. (256.3m-1170kc) 8 p. m. Headliners.
WSAI Cincinnati, Ohio (325.9m-920kc) 7:30 p. m. Bosworth artist series; 10, WEAF; 10:30, Congress Playing card string quartet.
WTAG Worcester, Mass. (545.1m-550kc) 7 p. m. Powers Coal Miners; 7:30, WEAF; 8, Bancroft hotel orchestra; 8:30, WEAF; 9, program; 10, WEAF.
WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Guy Lombardo's Royal Canadians; 7:15, talks; 7:30, WEAF; 8, Public Auditorium program; 11, Jack Horowitz Collegian serenaders.
WWJ Detroit, Mich. (552.7m-820kc) 6 p. m. Dinner concert; 8, Detroit News orchestra; 9, WEAF; 10, WEAF.

WEDNESDAY, DECEMBER 8

Headliners

Eastern	Central	Mountain	Pacific
6:30 p. m.	5:30	4:30	3:30
WGR (319m-940kc) Program of Old Gospel hymns, two pianos.			
7:30	6:30	5:30	4:30
WOC (483.6m-620kc) Voss Vagabonds.	8	7	6
8	7	6	5
WEAF (491.5m-610kc) Salon concert, Augustine Jacquillard, soprano.			
WHB (365.6m-820kc) Victor Herbert program.	8:15	7:15	6:15
WRVA (256m-1170kc) Smithers Hawaiian players.	8:30	7:30	6:30
8:30	7:30	6:30	5:30
WGY (379.5m-790kc) Mendelssohn club concert.			
WHAS (399.8m-750kc) Joe Hillebrand and his orchestra.	9	8	7
WRVA (256m-1170kc) Recital, Allene Stosberg.			
WRVA (256m-1170kc) Original Negro songs and stories.	9:15	8:15	7:15
9:15	8:15	7:15	6:15
KPRC (296.9m-1010kc) Elaine Sawyer, Texas Bluebird.			
9:30	8:30	7:30	6:30
KPRC (296.9m-1010kc) Orpheus club.			
WRVA (256m-1170kc) Hazel Moses, harpist.	10	9	8
10	9	8	7
KPRC (296.9m-1010kc) Mike Gomez and Sherman Oldham.			
10:05	9:05	8:05	7:05
KTHS (374.8m-800kc) Lawson Reid, organist.	10:15	9:15	8:15
10:15	9:15	8:15	7:15
KFOU (545.1m-550kc) "Which Is the Great Commandment in the Law?" Rev. Gerecke's orchestra.			
KOA (322.4m-930kc) Frank Dinhaupt, baritone prize winner, Mirado trio.	10:30	9:30	8:30
10:30	9:30	8:30	7:30
WOC (483.6m-620kc) Herman Schmidt, organist; Agnes Dodeen, contralto.	11	10	9
11	10	9	8
WSM (282m-1060kc) Lawrence Goodman, pianist.	12:05	11:05	10:05
12:05	11:05	10:05	9:05
KTHS (374.8m-800kc) Mona Motor Oil twins.			

WEEL Boston, Mass. (348.6m-860kc) 8 p. m. musicale; 8:30-10, WEAF; 10, Joe Rines and his Palais Royal orchestra.
WFI Philadelphia, Pa. (394.5m-760kc) 6:45 p. m. Adolphia dance orchestra.
WGB Clearwater, Fla. (265.3m-1130kc) 8:30 p. m. open house.
WGHP Detroit, Mich. (270.1m-1110kc) 6 p. m. dinner concert, Hotel Tuller; 8-10, concert.
WGR Buffalo, N. Y. (319m-940kc) 6:30-7:30 p. m. piano recitals; 8, poems; 9-10:30, WEAF.
WGY Schenectady, N. Y. (379.5m-790kc) 7:30 p. m. Eastman theater; 8:30, musicale, WHAM; 10, WFB, program.
WHN Lexington, N. Y. (361.2m-830kc) 7:30 p. m. Loew's Lexington Theatre organ recital; 9:30, Loew's 7th Ave. Theatre concert; 10, Roseland dance orchestra; 11:30, Silver Slipper orchestra; 12, Cotton club orchestra.
WIP Philadelphia, Pa. (508.2m-590kc) 6:05 p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; (468.5m-810kc)
WJAX Jacksonville, Fla. (336.9m-890kc) 8-8:30 p. m. Popular program; 8:30-9:30 classical program; 9:30-10, studio program.
WJR Detroit, Mich. (516.9m-580kc) 7 p. m. Jean Goldkette's Petite symphony orchestra; soloists; 7:45, Good Will Oakland and Chief Pontiac; 9, studio program; 11, Murphy Brothers, organist, tenor, baritone; 12, Merry Old Chief and his Jesters.
WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Hotel Commodore dinner orchestra; 8, Imperial Imps; 8:30, Dubeher Hampden Watchmakers; 9, E. A. White hour; 10:30, Hotel Astor dance orchestra.
WKRC Cincinnati, Ohio (325.9m-920kc) 8:15 p. m. Hotel Alms orchestra; 8:30, "The Easy Tenor"; 8:50, Eugene Schmitt; 9, Everfresh program; 12, dance music.
WLIB Philadelphia, Pa. (394.5m-760kc) 8 p. m. Concert orchestra; 8:30, WEAF; 9, Stanley theater hour; 10, dance orchestra.
WLW Cincinnati, Ohio (422.3m-710kc) 7 p. m. Robert Visconti's orchestra; 7:40, Robert Visconti's orchestra; 10, Heerman trio; 11, organ recital; Johanna Grose.
WLW New York, N. Y. (288.3m-1040kc) 10 p. m. musicale.
WMAK Buffalo, N. Y. (265.5m-1130kc) 7:30 p. m. Eastman theater, WGY; 8:15, WHAM program; 9, musicale; 10, WFB.
WMCA New York, N. Y. (340.7m-880kc) 6 p. m. Ernie Golden and his Hotel McAlpin orchestra; 7:30, Finkenberg's Radio Franks; 9, Altsuhl's quartette; 10:30, Nest Club orchestra; 12, McAlpin entertainers.
WNYC New York, N. Y. (526m-570kc) 6:10 p. m. Piano selections.
WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. Hotel Sylvania dance orchestra; 8:10, lecture, Temple university; 8:30, Sesqui Centennial concert; 10, Fox theater orchestra; 10:30, Sam Brown's dance orchestra.
WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Jacques Jacobs' Hotel Shelton ensemble; 6:45, Bill Wathey in sports; 7, Jacques Jacobs' Hotel Shelton ensemble; studio Guild hour.
WRC Washington, D. C. (468.5m-810kc) 7 p. m. Lee House trio; 7:30, U. S. Army band; 8:30-9, WEAF; 9, WEAF; 9:30, staff program; 10, WEAF.
WRVA Richmond, Va. (256.3m-1170kc) 8 p. m. Headliners.
WSAI Cincinnati, Ohio (325.9m-920kc) 7:30 p. m. Bosworth artist series; 10, WEAF; 10:30, Congress Playing card string quartet.
WTAG Worcester, Mass. (545.1m-550kc) 7 p. m. Powers Coal Miners; 7:30, WEAF; 8, Bancroft hotel orchestra; 8:30, WEAF; 9, program; 10, WEAF.
WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Guy Lombardo's Royal Canadians; 7:15, talks; 7:30, WEAF; 8, Public Auditorium program; 11, Jack Horowitz Collegian serenaders.
WWJ Detroit, Mich. (552.7m-820kc) 6 p. m. Dinner concert; 8, Detroit News orchestra; 9, WEAF; 10, WEAF.

Educational Features Wednesday

Eastern	Central	Mountain	Pacific
4 p. m.	3	2	1
KFA (340.7m-880kc) Sociology lecture.	6:30	5:30	4:30
WNYS (526.6m-570kc) Elementary Spanish lessons.	7:45	6:45	5:45
7:45	6:45	5:45	4:45
KDKA (309.1m-970kc) University of Pittsburgh.	7:55	6:55	5:55
7:55	6:55	5:55	4:55
WDBO (239.9m-1250kc) Rollins college.	8:05	7:05	6:05
8:05	7:05	6:05	5:05
WOR (405.2m-740kc) N. Y. U. Child training, Dr. Nason.	8:10	7:10	6:10
8:10	7:10	6:10	5:10
WMAQ (447.5m-670kc) Lecture, U. of C., Prof. Fay-Cooper Cole.	10:30	9:30	8:30
10:30	9:30	8:30	7:30
KOAC (280.2m-1070kc) "Basketball Practice and Theory," home study course.			
KWSC (348.6m-860kc) Dec. 1, "Hoping Is a Bad Word"; Dec. 8, "If Is a Bad Word."	11	10	9
11	10	9	8
KLX (508.2m-590kc) Educational program.	11:45	10:45	9:45
11:45	10:45	9:45	8:45
KOAC (280.2m-1070kc) Story course.			

Regular Wednesday Features

Eastern Time Stations	Central	Mountain	Pacific
CFCA Toronto, Can. (356.9m-840kc) 7-8 p. m. Canada Dry Ginger Ale orchestra; 10:45, dance orchestra.			

Central Time Stations

KY Winnipeg, Can. (384.4m-780kc) 9-10 p. m. Prof. Gregori Gorbovitsky, violinist.
KFAB Lincoln, Neb. (340.7m-880kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, request program.
KFNF Shenandoah, Iowa (461.3m-650kc) 7 p. m. Concert, Henry Field Seed company.
KMA Shenandoah, Iowa (461.3m-650kc) 9-11 p. m. Two piano concert, Peregrin Brothers.
KMOX St. Louis, Mo. (280.2m-1070kc) 6 p. m. dinner organ recital; 6:30, quartet; 7:30, quartet; 8, quartet; 9, soloists; 10:15, orchestra; 12-1, dance music.
KPRC Houston, Texas (299.8m-1000kc) 7:30 p. m. Jack Willrich's orchestra; 8:30, evening concert; 9-11, Frank Tilton.
KSO Clarinda, Iowa (405.2m-740kc) 7 p. m. songs.
KTHS Hot Springs National Park, Ark. (374.8m-800kc) 9-9:45 p. m. music; 9:45-11:05, frolic.
KVOO Bristol, Ohio. (374.8m-800kc) 7-8 p. m. program; 8-9, Dorothy Heywood Keedy, artists; 12, dance orchestra.
KYW Chicago, Ill. (535.4m-560kc) 6:30 p. m. Joska DeBarby and his orchestra; 7, Family hour; 9-10:30, Edison classical concert; 10:30-12, Congress carnival.
WBMM Chicago, Ill. (226m-1330kc) 8, Coon-Sanders; 8:15-12, artists, orchestras; 12, Nutty club.
WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 6:45 p. m. Radio Pioneer's hour; 8, WEAF; 8:30, musicale; 9, WEAF; 9:30, musicale; 10:30 Marigold Ball Room orchestra; 11:30, organ recital, Eddie Dunstedter.
WCHG Chicago, Ill. (491.5m-610kc) 6 p. m. talks; 7, Brevoort trio; 8, variety hour; 10, Alamo orchestra; 12, entertainers.
WCOA Pensacola, Fla. (252m-1190kc) 6:30 p. m. Evening program.
WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. School of the air; 8-9, musicale; 9-9:30, WEAF; 10, 11, Bluebird Frolic.
WEBB Beach, Ohio (402.2m-810kc) 7 p. m. Edgewater Beach hotel orchestra; 9-11, orchestra, artists; 12-12:30, revue.
WEMC Berrien Springs, Mich. (315.6m-950kc) 8:15 p. m. Dr. O. R. Cooper; recital.
WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Rauland trio; 8-10, All-American Pioneers; 12-2, frolic.
WGN Chicago, Ill. (302.8m-990kc) 6:45-7 p. m. Request program, Drake concert ensemble; Blackstone string quintet; 8:30-8:45, songs, Correll and Gosden; 8:45-10, Arabian Nights' entertainment; 10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs, Tommy Coates; 10:30-12, The Pepper Party.
WHAD Milwaukee, Wis. (275.1m-1090kc) 6:10 p. m. Arthur Richter; 11:30, organ recital, Arthur Richter.
WHAS Louisville, Ky. (399.8m-750kc) 7:30-9 p. m. Artists.
WIB Kansas City, Mo. (365.6m-820kc) 7-8 p. m. K. C. artist string trio; 10:45-11:45, midweek musicale.
WHO Des Moines, Iowa (526m-570kc) 6-7 p. m. Bankers Life Little symphony; Myrtle Williams, soloist; 7:10-8, Hotel Ft. Des Moines orchestra; 8-9:30, program; 9:30-11:30, dance music.
WHT Chicago, Ill. (399.8m-750kc) 6 p. m. Al Carney; 7:45 (239m-1250kc) orchestra, Stuart Dawson; 9:30 (399.8m-750kc), Ray Lawson, tenor; Daddies Kids; John Powell; 10, variety program; 12, Al and Pat.
WIBO Chicago, Ill. (225.4m-1330kc) 6-8 p. m. dinner concert; 10-12, dance music.
WJAZ Chicago, Ill. (329.5m-910kc) 6:30 p. m. Shoreland hotel; 6:45-8, musicale; 8, highlights; 9, diversified program; 10:30, frolic.
WJD Mosheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-12, Palmer House Victorians.
WLIB Chicago, Ill. (302.8m-990kc) 7-7:10 p. m. Dinner concert, Drake concert ensemble; Blackstone string quintet; 7:10, Old Fashioned Almanack and the Million Song; 7:22, Adventures of Oney Fred Sweet; 7:30, recital, Tommy Coates, baritone; Edward Barry, pianist; 8, WEAF; 12-1 a. m. frolic.
WLS Chicago, Ill. (344.6m-870kc) 5:40 p. m. Al Meigard, organist; 6, May and June; 6:40, Maurice Sherman's College Inn orchestra; 7, May and June; 7:15, duo, Old Town Coffee room; 8:10, orchestra; 8:30, musicale; 9, orchestra; artists; 10, Jack Chapman's orchestra; 10:30, Ralph Emerson, organist; 11-12, May and June; 12, Maurice Sherman's College Inn orchestra.
WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 8, Gus Edwards orchestra; 9 music; 9:30, WMAQ air line.

HAIN, DEC. 5; FRANCES ALDA, DEC. 12



Louise Hunter, Metropolitan opera star, and for two years prima donna of the Atlanta Municipal Light Opera company made her Radio debut recently at WSB. Georgia listeners expressed their appreciation so enthusiastically that Miss Hunter will give another concert soon.



s being featured over WRR, Dallas. Both are twenty-th masks removed very handsome. The mail these five would do justice to a popular motion picture star. as artists and veterans in the ethereal field.

FARMER'S PROGRAM INDEX

Farmer Dinner Concerts

Daily Except Sunday

CENTRAL TIME
KFNF, 12:30 p. m.
KMA, 11:30-12:30
KSO, 12:30-1:30 p. m.

Special Farm Features

Wednesday

Eastern	Central	Mountain	Pacific
10:30 a.m.	9:30	8:30	7:30
WFI (394.5m-760kc), Farm feature.			
11:50	10:50	9:50	8:50
KPNP (461.3m-650kc), Poultry talk.			
1 p.m.	12	11	10
WCCO (416.4m-720kc), Farm hour. Egg Laying contest.			
1:10	12:10	11:10	10:10
WMAQ (447.5m-670kc), Prairie Farmer farm talks.			
1:13	12:13	11:13	10:13
WHO (526m-570kc), Radio Farm school.			
1:15	12:15	11:15	10:15
WEO (293.9m-1020kc), Farm flash, poultry.			
WTAW (270.1m-1110kc), Dec. 1, Gasoline Tank; Dec. 8, Dairy course.			
1:30	12:30	11:30	10:30
KMA (461.3m-650kc), Agricultural aid.			
WFAA (475.9m-630kc), Sears-Roebuck agricultural program.			
1:40	12:40	11:40	10:40
WLW (422.3m-710kc), U. S. Radio Farm school.			
1:45	12:45	11:45	10:45
WCO (416.4m-720kc), Egg laying contest.			
WOI (270.1m-1110kc), Poultry husbandry.			
2	1	12	11
WSB (428.3m-700kc), Georgia State college farm course.			
6:40	5:40	4:40	3:40
WGHP (270m-1110kc), U. S. Farm school.			
6:45	5:45	4:45	3:45
WGY (379.5m-790kc), WGY Agricultural program.			
7:10	6:10	5:10	4:10
WOC (483.6m-620kc), Poultry talk.			
7:30	6:30	5:30	4:30
WLW (422.3m-710kc), Farm Bureau Federation talk.			
7:35	6:35	5:35	4:35
KSAC (340.7m-880kc), Dec. 1, "Legumes"; Dec. 8, "Plowing and Cultivating"; KSO (410.7m-730kc), U. S. Farm school.			
WAMD (243.8m-1230kc), U. S. Farm school.			
WOS (440.9m-680kc), Radio Farm school.			
8:27	7:27	6:27	5:27
KOA (322.4m-930kc), Radio Farm council.			
8:35	7:35	6:35	5:35
WCCO (416.4m-720kc), Farm talk.			
WOOD (241.8m-1240kc), U. S. Farm school.			
9:30	8:30	7:30	6:30
KEAB (340.7m-880kc), Dec. 1, "The Use of Capital in Farming," A. W. Medlar.			
10:30	9:30	8:30	7:30
KWSC (348.6m-860kc), Dec. 1, "Choosing a Wheat Variety," "The December Farm Situation," Dec. 8, "Weather Variations," "Winter Care of Breeders."			
12	11	10	9
KGO (361.2m-830kc), About Insects, a practical talk to farmers.			

Eastern	Central	Mountain	Pacific
6:20 p.m.	5:20	4:20	3:20
WDDB (239.9m-1250kc), Agricultural economist.			
7	6	5	4
WVIC (475.9m-630kc), Farm course, Agricultural college.			
8	7	6	5
KSAC (340.7m-880kc), Dec. 3, Fertilizers; Dec. 10, Crops, Irrigation.			
7:45	6:45	5:45	4:45
KSO (405.2m-740kc), U. S. Farm school.			
9	8	7	6
KOIL (305.9m-980kc), U. S. Radio Farm school.			
WAMD (243.8m-1230kc), U. S. Farm school.			
WOS (440.9m-680kc), Radio Farm school.			
8:30	7:30	6:30	5:30
WCCO (416.4m-720kc), Farm lecture.			
WOC (483.6m-620kc), Question box.			
8:45	7:45	6:45	5:45
WOOD (241.8m-1240kc), U. S. Farm school.			
10:30	9:30	8:30	7:30
KWSC (348.6m-860kc), Dec. 3, "Farm Methods."			

Monday

Eastern	Central	Mountain	Pacific
10:30 a.m.	9:30	8:30	7:30
WFI (394.5m-760kc), Farm feature.			
11	10	9	8
KMMJ (228.9m-1310kc), Poultry talks.			
1 p.m.	12	11	10
WCCO (416.4m-720kc), Farm hour.			
WEEI (348.6m-860kc), U. S. Farm school.			
1:10	12:10	11:10	10:10
WMAQ (447.5m-670kc), Prairie Farmer farm talks.			
1:13	12:13	11:13	10:13
WHO (526m-570kc), Radio farm school.			
1:15	12:15	11:15	10:15
WTAW (270.1m-1110kc), "Less Cotton and More Rotation."			
2	1	12	11
KFDY (306m-978kc), Poultry course.			
KMA (461.3m-650kc), Farm talk, agricultural aid.			
WCCO (416.4m-720kc), Farm talk, feed choppers.			
WEO (293.9m-1020kc), Timely economic information for the farmers.			
1:35	12:35	11:35	10:35
KSAC (340.7m-880kc), Timely talks for the farmer.			
1:40	12:40	11:40	10:40
WLW (422.3m-710kc), U. S. Radio Farm school.			
1:45	12:45	11:45	10:45
WOI (270.1m-1110kc), Questions and answers on horticulture.			
WTAW (270.1m-1110kc), Dec. 13, Lams.			
2	1	12	11
WSB (428.3m-700kc), Georgia State College farm course.			
4:30	3:30	2:30	1:30
WLW (422.3m-710kc), Weekly letter to Dad.			
6:20	5:20	4:20	3:20
WDBO (239.9m-1250kc), Farm flashes.			
6:40	5:40	4:40	3:40
WGHP (270m-1110kc), U. S. Farm school.			
7:30	6:30	5:30	4:30
KSAC (340.7m-880kc), Dec. 6, Phosphates; Dairying; Dec. 13, "Warm and Cold Spells," Market news; Milling.			
KSO (410.7m-730kc), U. S. Farm school.			
WSM (282.8m-1060kc), Poultry talks.			
8	7	6	5
KOIL (305.9m-980kc), U. S. Radio Farm school.			
WAMD (243.8m-1230kc), U. S. Radio Farm school.			
WOS (440.9m-680kc), U. S. Radio Farm school.			
WRVA (256m-1170kc), Farmers' chat, Dibble, Cline.			
8:20	7:20	6:20	5:20
KFP (260.7m-1150kc), U. S. Agricultural service.			
8:30	7:30	6:30	5:30
KUOA (299.8m-1000kc), Farm philosophy, Dec. 6, "Soybeans for Lawrence County," "How to Get the Most from Arkansas Sheep," Dec. 13, "Home Curing of Pork," "Certification of Farm Flocks," "Grape Pruning."			
WCCO (416.4m-720kc), Farm lecture.			
WMC (499.7m-600kc), Farm talk.			
8:35	7:35	6:35	5:35
WOOD (241.8m-1240kc), U. S. Farm school.			
9	8	7	6
KPNP (461.3m-650kc), Poultry talk.			
WAO (499.7m-600kc), Farm talk.			
9:30	8:30	7:30	6:30
KOB (348.6m-860kc), Farm program.			
WFAA (475.9m-630kc), Sears-Roebuck program.			
10:30	9:30	8:30	7:30
KWSC (348.6m-860kc), Dec. 6, Dairy talk; Dec. 13, Applies in the Northwest.			
10	9	8	7
KOAC (280.2m-1070kc), "Seed Production," home study course.			
11:15	10:15	9:15	8:15
KOAC (280.2m-1070kc), "Irrigation," lecture course, "Poultry Farm Management."			

Tuesday

Eastern	Central	Mountain	Pacific
9:50 a.m.	8:50	7:50	6:50
WBAO (293.9m-1020kc), "Bugs and Rodents."			
10:30	9:30	8:30	7:30
WFI (394.5m-760kc), Farm feature.			
10	9	8	7
KMMJ (228.9m-1310kc), Poultry talks.			
1 p.m.	12	11	10
WCCO (416.4m-720kc), Farm hour.			
1:10	12:10	11:10	10:10
WMAQ (447.5m-670kc), Prairie Farmer farm talks.			
1:13	12:13	11:13	10:13
WHO (526m-570kc), Radio Farm school.			
1:15	12:15	11:15	10:15
WEO (293.9m-1020kc), Farm flash, crops and soils.			
WTAW (270.1m-1110kc), Important agricultural news.			
1:30	12:30	11:30	10:30
KMA (461.3m-650kc), Agricultural aid.			
1:40	12:40	11:40	10:40
KFP (260.7m-1150kc), State farm talks.			
1:45	12:45	11:45	10:45
WOI (270m-1110kc), "Animal Husbandry."			
2	1	12	11
WCCO (416.4m-720kc), Glass cloth.			
WSB (428.3m-700kc), Georgia State College farm course.			
6:20	5:20	4:20	3:20
WDBO (239.9m-1250kc), Farm talk.			
6:40	5:40	4:40	3:40
WGHP (270m-1110kc), U. S. Farm school.			
6:45	5:45	4:45	3:45
WGY (379.5m-790kc), Agricultural program.			
7:10	6:10	5:10	4:10
WEO (293.9m-1020kc), Plant diseases.			
7:30	6:30	5:30	4:30
KSAC (340.7m-880kc), Dec. 7, Weeds; Dec. 14, Weather, Harmful and Useful birds.			
KSO (405.2m-740kc), U. S. Farm school.			
8	7	6	5
KOIL (305.9m-980kc), U. S. Radio Farm school.			
KYW (535.4m-560kc), American Farm Bureau Federation.			
WAMD (243.8m-1230kc), U. S. Farm school.			
9:30	8:30	7:30	6:30
KOA (322.4m-930kc), Farm question box.			
10:10	9:10	8:10	7:10
WOAW (526m-570kc), Poultry, pig troubles.			

Thursday

Eastern	Central	Mountain	Pacific
10:30 a.m.	9:30	8:30	7:30
WFI (394.5m-760kc), Farm feature.			
12:30	11:30	10:30	9:30
KVOO (374.8m-800kc), Oklahoma A. & M. course.			
1 p.m.	12	11	10
WCCO (416.4m-720kc), Farm hour.			
1:10	12:10	11:10	10:10
WMAQ (447.5m-670kc), Prairie Farmer farm talks.			
1:13	12:13	11:13	10:13
WHO (526m-570kc), Radio Farm school.			
1:15	12:15	11:15	10:15
KPNP (461.3m-650kc), Dec. 2, Corn crop; Dec. 9, Wheat crop.			
WEO (293.9m-1020kc), Farm talk.			
WTAW (270.1m-1110kc), Farm and Home Question box.			
1:30	12:30	11:30	10:30
KMA (461.3m-650kc), Agricultural aid.			
1:45	12:45	11:45	10:45
WOI (270m-1110kc), Farm crops.			
2	1	12	11
WSB (428.3m-700kc), Georgia State college.			
4:30	3:30	2:30	1:30
WLW (422.3m-710kc), Fifty Farm flashes.			
6:20	5:20	4:20	3:20
WDBO (239.9m-1250kc), Primer for town farmers.			
6:40	5:40	4:40	3:40
WGHP (270m-1110kc), U. S. Farm school.			
7:45	6:45	5:45	4:45
KSO (410.7m-730kc), U. S. Farm school.			
8	7	6	5
KOIL (305.9m-980kc), U. S. Government crop survey.			
8:30	7:30	6:30	5:30
WAMD (243.8m-1230kc), U. S. Farm school.			
WCCO (416.4m-720kc), Farm lecture.			
WGI (270m-1110kc), Farm crops.			
8:35	7:35	6:35	5:35
KYW (535.4m-560kc), American Farm Bureau.			
WOI (270.1m-1110kc), Franklin County Farm Bureau program.			
9:30	8:30	7:30	6:30
KOA (322.4m-930kc), Farm question box.			

Friday

Eastern	Central	Mountain	Pacific
10:30 a.m.	9:30	8:30	7:30
WFI (394.5m-760kc), Farm feature.			
11:50	10:50	9:50	8:50
KPNP (461.3m-650kc), Poultry talk.			
1 p.m.	12	11	10
WCCO (416.4m-720kc), Farm hour.			
WLS (344.6m-870kc), R. F. D. dinnerbell program.			
WEO (293.9m-1020kc), Farm flash, dairying.			
1:10	12:10	11:10	10:10
WMAQ (447.5m-670kc), Prairie Farmer farm talks.			
1:13	12:13	11:13	10:13
WHO (526m-570kc), Radio Farm school.			
1:15	12:15	11:15	10:15
WTAW (270.1m-1110kc), Farm talks.			
1:30	12:30	11:30	10:30
KMA (461.3m-650kc), Agricultural aid.			
1:40	12:40	11:40	10:40
WLW (422.3m-710kc), U. S. Radio Farm school.			
1:45	12:45	11:45	10:45
WOI (270m-1110kc), Soils.			
WTAW (270.1m-1110kc), Dec. 3, Pork.			
2	1	12	

WBAP Fort Worth, Tex. (475.9m-630kc) 7:30-8:30 p. m. musicale; 9:30-11, Davis Baking Powder saxophone octet; 11-12, frolic.

WBMM Chicago, Ill. (226m-1330kc) 8 p. m. Coon-Saunders Night Hawks; 8:15-11, orchestra, piano; 11, Coon-Saunders Night Hawks; 11:15, Hand and his theater group.

WCBD Zion, Ill. (344.6m-870kc) 8 p. m. musicale.

WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 8 p. m. WEAF; 10:20, headliner.

WCFL Chicago, Ill. (491.5m-610kc) 6 p. m. talks; 7, Brevort trio; 8, classical hour; 10, Alamo orchestra; 11-12, Alamo entertainers.

WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. school of the air; 11:45-1, Nighthawk frolic.

WEBB Chicago, Ill. (370.2m-810kc) 7-8 p. m. Up-town theater; 9:30-11, musicale; 11, Edgewater Beach hotel orchestra; Hickey and Johnson; Rita McFawn; Cook Sisters.

WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Rau-lund trio; 8-10, All-American Pioneers, Vin Lindhe.

WFAA Dallas, Texas (475.9m-630kc) 6:30-7:30 p. m. Baker hotel orchestra; 8:30-9:30, concert.

WGN Chicago, Ill. (302.8m-890kc) 6:45-7 p. m. re-quest program, Drake concert ensemble; Black-stone string quartet; 8:10, WEAF; 10, "Sams" in Henry; 10:10, The Music Box; 10:20, Mark Love, bass; Bobby Meeker's Drake hotel orchestra; 10:40-11, songs, Correll and Gosden.

WHAD Milwaukee, Wis. (275.1m-1090kc) 6:15 p. m. orchestra and vocal selections, Wisconsin hotel orchestra; 8:30, classical studio program.

WHAS Louisville, Ky. (399.5m-750kc) 7:30-9 p. m. concert.

WHB Kansas City, Mo. (365.6m-820kc) 7-7:45 p. m. organ concert; 9-10, Ukulele songsters.

WHO Des Moines, Ia. (526m-570kc) 7:30-8 p. m. Philbreck's Younker tea-room orchestra; 8-9, Bankers Life trio; 11-12, dance program.

WIT Chicago, Ill. (399.5m-750kc) 6 p. m. Al Carney, organist, violin; 7:45, (238m-1260kc), orchestra, songs; 9:30 (399.5m-750kc), Billy A. Huff, songs; 10, quartet; 12, Al and Pat.

WIBO Chicago, Ill. (225.4m-1330kc) 6-8 p. m. dinner concert; 12-2, Aragon minstrels.

WJAZ Chicago, Ill. (329.5m-910kc) 7 p. m. diversified program; 9, Shoreland.

WJJD Mooseheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-1 a. m. Palmer House Victorians.

WLBB Chicago, Ill. (302.8m-890kc) 7-7:10 p. m. dinner concert, Drake concert ensemble, Blackstone string quintet; 7:10, Old Fashioned Almanack and the Million Sing; 7:22, Adventures of Oney Fred Sweet; 7:30-8, songs, Correll and Gosden; Coon-Saunders orchestra; 11-12, Ruth Farley, organist; songs, Correll and Gosden; Bobby Meeker's Drake hotel dance orchestra; "waltz time"; 12-1 a. m. frolic.

WLS Chicago, Ill. (344.6m-870kc) 6:30 p. m. sports; 6:40-7:55, artists; 10:30, organist; 11-12, orchestras.

WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 6:30, Gus Edwards' orchestra; 8, orchestra; 8, program; 9:50, air line.

WMBB Chicago, Ill. (249.9m-1200kc) 7-8:30 p. m. Trianon ensemble; 8:30-11, orchestra; Arthur Truesdale.

WMC Memphis, Tenn. (499.7m-600kc) 8 p. m. talk on Memphis history; 8:30, Vesey Piano company ensemble.

WOAI San Antonio, Tex. (394.5m-760kc) 8:30-9:30 p. m. Radiola Super-Heterodyne hour.

WOAW Omaha, Nebr. (526-570kc) 6 p. m. Vag-abonds; 9, classical program; 10, Roseland Gardens.

WOC Davenport, Iowa (483.6m-620kc) 7:30-8 p. m. Moline Plowboys; 8-9, WEAF; 9-10, WEAF.

WOK Chicago, Ill. (238m-1260kc) 6-7:45 p. m. string ensemble; 8-9 (217.3m-1380kc), theater program; 9:30-12 (238m-1260kc), syncopators.

WORD Chicago, Ill. (275.1m-1090kc) 7 p. m. Webster Hotel duo orchestra; 9, musicale.

WOJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainbo Gardens orchestra; specialty; 10-2 a. m. Rainbo frolic.

WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. concert; 10:45, Charles A. Sheldon Jr., organist.

WSBC Chicago, Ill. (288.3m-1040kc) 6:30-8:30 p. m. dinner program; 9:30-1, New Jeffrey Tavern syncopators.

WSWS Chicago, Ill. (275.8m-1090kc) 6 p. m. dinner hour program; Terrace Garden orchestra; 8, production, the Magic Crystal; 10, popular airs; 12, Witching hour program.

Pacific Time Stations

KFI Los Angeles, Calif. (467m-640kc) 7-8 p. m. program by students of U. S. C.; 8-9, KFI drama hour; 9-10, varied hour; 10-11, Johnston and Farrell's music box revue.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 7:50, news; 9-10, program; 10-11, Warner Brothers frolic.

KGO Oakland, Calif. (361.2m-830kc) 6-6:55 p. m. Stanislas Bem's Little symphony; 8, program; 10, orchestra.

KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner concert; 7:45-8, lecture; 8-10, vaudeville.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-10, features; 10-11, dance music.

KMTR Hollywood, Calif. (370.2m-810kc) 8-9 p. m. program; 9-10, Cate Lafayette dance orchestra; 10-12, Palais de Danse.

KNX Hollywood, Calif. (336.9m-890kc) 7 p. m. organ; 8, feature; 9, courtesy program; 11, Hotel Ambassador.

KPO San Francisco, Calif. (428.3m-700kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, U. of California; 9-10, Hawaiians; 10-11, Mandarin Cate orchestra.

KPSN Pasadena, Calif. (315.6m-850kc) 8-9 p. m. musical program.

Thursday, silent night for: CFCA, KFAB, KFDM, KFJ, KFOA, KFUO, KIX, KMA, KMOX, KOA, KOB, KSWC, PWX, WAHG, WAMD, WEAQ, WEBJ, WEMC, WGBF, WHAD, WJAX, WMAK, WOS, WSM, WSUI, WTAM.

FRIDAY DECEMBER 3

Headliners

Eastern	Central	Mountain	Pacific
7:30 p. m.	6:30	5:30	4:30
WEAF (491.5m-610kc), Fairyland.			
WMCA (340.7m-880kc) Whozit contest.			
WITC (475.9m-630kc) Austin organ recital.			
Esther Nelson			
7:35	6:35	5:35	4:35
WGY (379.5m-790kc) Instrumental program.			



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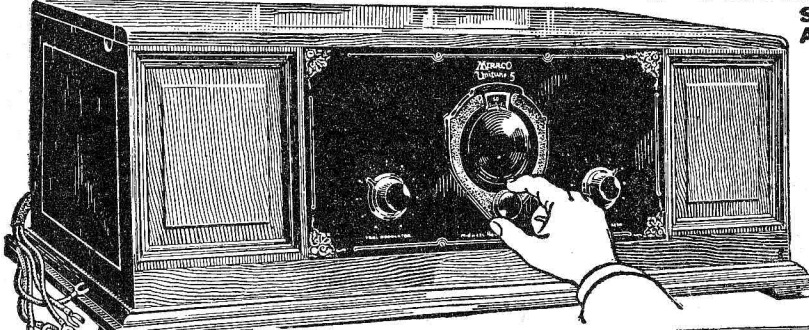
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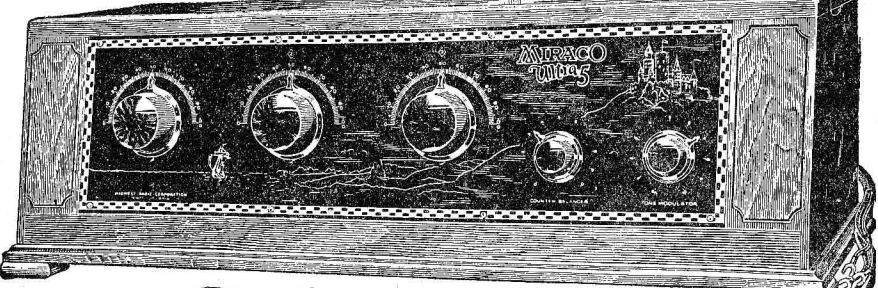
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REFUSED TO TRADE IT FOR ANY OTHER SET. Prospect, Ore. Over 31 stations brought in first night on loud speaker. I ordered the Miraco for a friend and he is more than pleased. I offered to trade my Neutrodyne for it but he refused and I had the name of the best set in the community. M. E. Tulon.

PENNSYLVANIA BEGINNER GETS 'EM ALL OVER. Corry, Pa. Have had Miraco one month and have received over 115 stations from all over the United States, Canada, Mexico and the West Indies. I think this is pretty good for one that never had any experience before. Clarence Drugfelder.

LIKES IT BETTER THAN \$150 - \$250 SETS. Westville, Ill. Miraco sure is a wonderful set. I get the stations easily without noise—that's one of the things I like about the Miraco. I've had three other sets that have ranged from \$150 to \$200 each but Miraco beats them all. My friends all like the Miraco. I have had stations all over the U.S.A. I tune in Mexico City and Havana, Cuba any time they are on the air. Alex Kinder.

BEATS COSTLIER SETS WITH MORE TUBES. Lexington, O. I have given Miraco a thorough try, out and find it to do all you claim. 65 stations logged so far; getting new ones every week. This list includes coast to coast, Canadian, Cuban and Mexican stations. The Miraco is the best I have ever had. Others here in town have more expensive and expensive sets. Comes in fine and clear. No noises. Get lots of distant stations. Surely am satisfied. Orvey Sharpe.

MIRACO OUTPERFORMS THEM ALL. St. Francis, Kansas. I've heard a lot of radios but the Miraco is the all-around, I am proud of mine. Comes in fine and clear. No noises. Get lots of distant stations. Surely am satisfied. Orvey Sharpe.

WISCONSIN HEARS COAST TO COAST. Racine, Wis. I got station 210 London last Wednesday night on my Miraco. I also heard a station in Buenos Aires, Argentina. Geo. W. Hill, Jr.

UTAH ENJOYS COAST TO COAST PROGRAMS. Heber City, Utah. The Miraco sure can't be beat at any price. Coast to coast it sure does and more. I have had stations in New York and Cuba in the east, and scores of other stations on the west coast. I have logged up to date 150 stations and they all come in wonderfully. Monte Giles.

MIRACO WINS AGAINST 3 OTHER NAMES. Pearland, Texas. I tried three other makes and the Miraco is the best of them all. Received KFI, Los Angeles, Calif. on loudspeaker, O. H. Richards.

Nacogdoches, Texas. On my Miraco I have heard stations from Cuba to San Francisco and from Mexico City to Pittsburgh. Walter M. Frisbie.

COAST TO COAST LOUD AND CLEAR. Guthrie, Okla. We have over 30 stations and get over 1500 miles on the loud speaker. The first night—our first experience tuning a radio. The third night we got WJAX Jacksonville, Florida and KFLL Los Angeles, Calif., on the loudspeaker. Neighbors say Miraco is the best they have ever heard. O. R. Wolf.

MIRACO BEATS A SUPER EIGHT. Cobalt, Ontario, Canada. Miraco is one of the best radios in all the north country. There is a man here who has a big Super eight and our Miraco beat it. W. Sauter.

OUTPERFORMS SOME \$300 SETS. Blackwell, Ga. I am well pleased with my Miraco. It does better than machines that cost \$300 or more. J. D. Tison.

Our 7th Anniversary Christmas Special!

An unheard-of price for a high-grade, fully guaranteed, 5-tube radio! Only \$19.95 net! We guarantee this new Miraco Compact (14 inch wide, finished in brown mahogany) can't be equalled at anywhere near the price in quality of construction, selectivity, distance-getting power, tone, ease and economy of operation. Complete with high-grade accessories—nothing else to buy—only \$49.85 net. Act quick—supply limited! Get Special Offer!

FREE! 30 DAY TRIAL!

5 TUBE GUARANTEED RADIO

World's Biggest bargain direct from factory. Coast to Coast range. Powerful, selective; clear, sweet tone.

19.95

All the Proof you want is waiting for You!

Coupon or postal brings reports from hosts of users in your vicinity and elsewhere proving that Miraco sets at rock-bottom money-saving factory prices, outperform sets costing up to four times as much. You can also buy speakers, tubes, batteries, etc., at big savings from us! Get our proposition before spending money elsewhere.

MIDWEST RADIO CORPORATION
 Pioneer Builders of Sets
 Cincinnati, O.

437-T Miraco Building
 Without obligation, send free literature, testimony of users. AMAZING SPECIAL OFFER and full particulars of our big money-saving factory-price proposition on Guaranteed Miraco sets and all radio supplies. () Agent () Dealer

Send coupon for Amazing Special Offer!

Name.....

Address.....

City..... State.....

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for various times.

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FRIDAY, DECEMBER 10 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Friday, December 10.

Educational Features Friday

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists educational features for Friday.

Regular Friday Features

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists regular Friday features.

THE 1926 X-MAS Gift for Every Radio Fan... A book 8 1/2" x 11 in., containing large photographs of all the chief announcers of the leading broadcasting stations...

I Will Train You At Home To Fill a Big Pay Radio Job

Radio Needs Trained Men! If you're earning a penny less than \$50 a week, clip coupon now. Send for AMAZING FREE BOOK, "Rich Rewards in Radio." Why go along at \$25 or \$35 or \$45 a week, when you could earn \$50 to \$250 in the same six days, as a Radio Expert?

Earn \$50 to \$250 a Week—RADIO EXPERTS IN BIG DEMAND Radio needs trained men. Get into this new live-wire profession of quick success. It's the trained man, the Radio Expert, who gets the big jobs of this profession—paying \$75, \$100, \$200 a week and up.

You Learn Quickly In Spare Time So sure am I that I can train you successfully for a better future in this new Big-Pay profession, that I guarantee your training with a money-back bond. Lack of experience or education won't hold you back—common schooling all you need to start.

Get This FREE BOOK Most amazing book on Radio ever written—full of facts and pictures—tells all about the great new Radio field, how we prepare you and help you start. You can do what others have done—GET THIS BOOK. Send coupon today—no obligation.

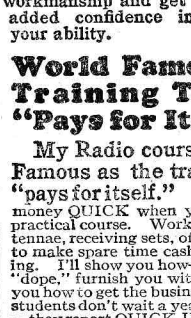
World Famous Training That "Pays for Itself" My Radio course World-Famous as the training that "pays for itself." Make more money QUICK when you take up this practical course. Work on millions of antennae, receiving sets, offers you big chance to make spare time cash while you're learning.

EMPLOYMENT SERVICE TO ALL GRADUATES Originators of Radio Home-Study Training

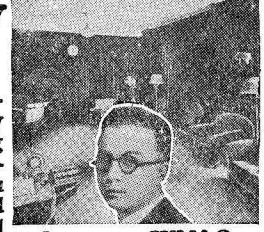
DANCE VOLUME! ALL YOU WANT WITH POWERIZER Combined "B" Eliminator and Power Amplifier The orchestra is literally transported to your own home; every sound is so realistic, every note so full, that the music in all its perfection may clearly be heard above the din of voices and shuffle of dancing feet.



\$70 in One Day For T. M. Wilcox "I am in business for myself and RECENTLY MADE \$70 in ONE DAY. I was an electrician of rich experience, occupying a splendid position as telephone superintendent when I enrolled with you believing it would open up greater opportunities—have not been disappointed. Estimate Radio will be worth tens of thousands of dollars to me in next few years."



Your Satisfaction Guaranteed We who know the results this practical tested training gets—the increased earnings it has brought to men everywhere—stand behind it all the way with a signed guarantee bond that we give you when you enroll. On completion if you're not entirely satisfied in every way, you get back every cent you've paid us. No strings to this offer—you yourself are the only judge. Get started today! It's your big chance for one of the bigger Radio jobs—mail coupon NOW for my Big FREE BOOK and proof! No obligation.



Operates WMAQ "Accepted a position with the Chicago Daily News Station WMAQ. MY INCOME PRACTICALLY DOUBLED, thanks to you. I handle all consultation, also do operating. Your course taught me not only the theoretical but also the practical knowledge that makes my work easy for me." Keith Kimball, Station WMAQ, Chicago, Ill.



Dear Mr. Smith—Without obligating me in any way, send me your free book, "Rich Rewards in Radio" and all information about your practical, home-study Radio Course.

Name..... Age..... Street Address..... Town..... State.....

WBZ Springfield, Mass. (333.1m-900kc) 6:15 p. m. ensemble; 6:30, orchestra; 7:03, concert; 8, Radio Four; 8:30, program; 10, WJZ.

WBRR New York, N. Y. (416.4m-720kc) 8 p. m. Watchtower concert trio; 8:20, Fred Twaroschik, tenor.

WCAE Pittsburgh, Pa. (461.3m-650kc) 6 p. m. dinner music; 8, Sunday school lesson; 8:30, Burt McMurtree's hour; 9:30-10:30, WEA; 10:30, dance music.

WCAU Philadelphia, Pa. (277.6m-1080kc) 7:30 p. m. Snellenburg recital; 8, Barry O'Moore, Irish tenor; 8:30, Cohen's Jewels; 8:45, Curox Girls; 9, Melody Makers; 9:30, Murrumirg Baritone; 10, recital; 10:30, Myers Musical Architects.

WCWS Bridgeport, Conn. (285.5m-1050kc) 6:30 p. m. orchestra; 7, orchestra; 7:30, hour of music; 8:30, sextet.

WCX Detroit, Mich. (516.9m-580kc) 6-7 p. m. dinner concert, Goldkette ensemble; 8-9, studio program.

WDEO Winter Park, Fla. (239.9m-1250kc) 9 p. m. popular program; 10:30, Newspaper trio; 11:30, jam-boree.

WEAF New York, N. Y. (491.5m-610kc) 6 p. m. dinner music; 7, orchestra; 7:30, headliners; 7:45, talk; 8, Happiness Candy Boys; 8:30, Holmer hour, WGR, WLIT, WRC, WLIT, WVJ, WTAM, WCAE; 9, South Sea Islanders, WLIT, WVJ, KSD, WTAG; 9:30, La France orchestra, WEEL, WGR, WDAF, WLIT, WCAE, WTAM, WVJ, KSD, WOC; 10, Whittall Anglo-Persians, WRC, WIAR, WTAM, KSD, WVJ, WCCO, WDAF, WGR, WGN, WEER, WTAG, WCAE, WOC, WLIT; 11:30 (headliner), orchestra.

WEEL Boston, Mass. (348.6m-860kc) 7:30 p. m. Whitting Milk company; 8, musicale; 9:30-10:30, WEA.

WFI Philadelphia, Pa. (394.5m-760kc) 6:45 p. m. Adelphia dance orchestra.

WGBS New York, N. Y. (315.6m-950kc) 6:30 p. m. Bluebells of Long Island orchestra; 7:10, orchestra; 7:20, Bluebells of Long Island orchestra.

WGHB Clearwater, Fla. (265.5m-1130kc) 8:30 p. m. pipe organ, program.

WGHP Detroit, Mich. (270.1m-1110kc) 6-8 p. m. dinner concert, Hotel Tuller; 10-11, WGHP entertainers; 11-12, Melodymakers.

WGR Buffalo, N. Y. (319m-940kc) 7:45 p. m. evening program; 9:30-10:30, WEA; 11-1, supper music.

WGY Schenectady, N. Y. (379.5m-790kc) 7 p. m. Hotel Van Currier dinner music; 7:35, staff program; 8, musicale; 9, WGY players; 10, WJZ; 11, WJZ.

WHN New York, N. Y. (361.2m-830kc) 7 p. m. Freshman Masterpiece entertainers; 7:30, Sachs Quality entertainers; 8, Treasureland Home Owners ensemble; 10, Roseland dance orchestra; 12, Silver Slipper orchestra.

WIP Philadelphia, Pa. (508.2m-590kc) 6:05 p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories.

WJAX Jacksonville, Fla. (336.9m-890kc) 7-7:30 p. m. Carling hotel dinner music; 8-9, studio popular program; 9-10, Casa de Baile.

WJR Detroit, Mich. (516.9m-580kc) 7 p. m. symphony; 8, Arctic flavors; 8:30, studio program.

WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Hotel Commodore dinner orchestra; 8, Sundial Shoe Serenaders & Bonnie Ladies; 9, Breyer Ice Cream hour, WRC will also broadcast; 10, Baldwin piano hour, WGY; 11, Raul Specht's Twin Oaks orchestra.

WLIT Philadelphia, Pa. (394.5m-760kc) 8 p. m. concert orchestra; 8:30 Salon orchestra; 9, WEA; 10, WEA; 10:30, Arcadia cafe dance orchestra.

WMAK Buffalo, N. Y. (385.5m-1130kc) 7:30 p. m. weather; 7:35, WGY; 7:35, WGY.

WMCA New York, N. Y. (340.7m-880kc) 6:30 p. m. Ernie Golden and his Hotel McAlpin orchestra; 8, Wanamaker's Hawaiians; 8:45, Broadway Association; 10, Entertainers; 12, McAlpin entertainers.

WNYC New York, N. Y. (526m-570kc) 6 p. m. piano selections.

WOO Philadelphia, Pa. (508.2m-590kc) 11 a. m. organ recital; 12:02 p. m. Tea Room orchestra; 4:45, organ recital; 7:30, Hotel Sylvania dance orchestra; 8:10, hygiene talk; 8:20, WOO tourists, WOO orchestra; 9:30, Fox theater orchestra; 10, Sesqui-centennial concert; 10:30, Sylvania dance orchestra.

WOR Newark, N. J. (495.2m-740kc) 6:15 p. m. Bill Wathey in sports; 6:30, Hotel Bretton Hall string quartet; 9:30, program; 11, orchestra.

WPG Atlantic City, N. J. (299.8m-1000kc) 7:15 p. m. organ recital, Arthur Brook; 7:30, Hotel Shelburne dinner music; 8, Hotel Traymore dinner music; 8:30, Hotel Chelsea evening concert; 9, Hotel President orchestra; 9:30, Hotel Ambassador concert orchestra; 10, Garden Pier dance orchestra; 10:30, dance music; 11, Garden Pier dance orchestra.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. Meyer Goldman's Hotel Hamilton orchestra; 8, musicale; 9, WJZ; 10, WEA; 10:30-12:30, Wardman Park hotel orchestra.

WRVA Richmond, Va. (256.3m-1170kc) 7 p. m. evening program.

WTAG Worcester, Mass. (545.1m-550kc) 8:30 p. m. program; 9:30 Belco entertainers; 10, WEA.

WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Jack Horvitz Collegian serenaders; 7, talk, Arthur Haas; 7:30, studio program; 9:30, WEA; 10, WEA; 10:30, studio program; 11, Bamboo orchestra.

WTIC Hartford, Conn. (475.9m-630kc) 6:30 p. m. Hotel Bond trio; 7:15, Laura C. Gaudet, organist; 10:05, Emil Heimberger's Hotel Bond orchestra.

WWJ Detroit, Mich. (352.7m-820kc) 6 p. m. dinner concert; 9, WEA; 9:30, WEA; 10, WEA.

Central Time Stations

KFAB Lincoln, Nebr. (340.7m-880kc) 8:30-10:30 p. m. entertainment.

KFDM Beaumont, Texas (315.6m-950kc) band, KMA Shenandoah, Iowa (461.3m-650kc) 9-11 p. m. Dreamers.

KMOX St. Louis, Mo. (280.2m-1070kc) 6:30 p. m. dinner program; 8, program; 12-1, dance music.

KOIL Council Bluffs, Iowa (305.3m-980kc) 7:30 p. m. Ambassadors; 8, artists; 8:30, Drescher Brothers, Inc.; 11, frolic.

KSO Clarinda, Iowa (405.2m-740kc) 7 p. m. popular program.

KTHS Hot Springs National Park, Ark. (374.8m-800kc) 9:10-10:45 p. m. features.

KVOO Bristow, Okla. (374.8m-800kc) 7-7:30 p. m. Walter Schoggen, tenor; 7:30-8:30, Marie Gardner Swift; 8:30-9, Chickasaw Nightingale; 11-12, Knights of the Empty Skull; 12-1, Earl Thurston, organist.

KYW Chicago, Ill. (535.4m-560kc) 6:30 p. m. Joska Debary and his orchestra; 7, family hour; 9-10:30, classical concert; 10:30-12, Congress carnival.

WBAP Fort Worth, Texas (475.5m-630kc) 7:30-8:30 p. m. concert; 9:30-11, evening program; 11, musicale.

WBBM Chicago, Ill. (226m-1330kc) 8:15 p. m. artist recital; 9-10, popular music.

WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 6:30 p. m. St. Paul Association; 8, popular orchestra program, Nash-Finch orchestra; 9, WEA; 9:30, program; 10:05, dance program, Nankin Cafe orchestra.

WCFL Chicago, Ill. (491.5m-610kc) 7 p. m. Brevoort concert trio; 8, hour; 10, Alamo orchestra.

WCOA Pensacola, Fla. (252m-1190kc) 6:30 p. m. musicale.

WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. school of the air; 8-8:30, varied musicale; 8:30-9, WEA; 9-9:30, WEA; 11:45-1, Nighthawk frolic.

WEBB Chicago, Ill. (370.2m-810kc) 7 p. m. Edgewater Beach hotel orchestra; 9-9:45, Edgewater Beach hotel orchestra; 10-11, Edgewater Beach hotel orchestra, specialties.

WEMC Berrien Springs, Mich. (315.6m-950kc) 9 p. m. musicale.

WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Raut-

land lyric trio; 8-10, All-American Pioneers; 12-2, midnight frolic.

WFAA Dallas, Tex. (475.9m-630kc) 6:30-7:30 p. m. orchestra; 8:30, program.

WGBF Evansville, Ind. (256.1m-1270kc) 7 p. m. Exide entertainers; 8, orchestra.

WGN Chicago, Ill. (302.8m-990kc) 6:45-7 p. m. request program, Drake concert ensemble; Blackstone string quintet; 7, The Million Sing; 7:05-7:15, Old Fashioned Almanack; 7:15, Paul Ash's show, Oriental theater; 8, musical program; 9, WEA; 9:30, The Phantom violin; 10, Sam 'n' Henry; 10:10, The Music Box; 10:20, Bible readings; 10:30, Leon Lichtenfeld, cellist; Herbert Johnson, pianist; 10:40-11, songs, Correll and Gosden.

WHAD Milwaukee, Wis. (275.1m-1090kc) 6:10 p. m. Arthur Richter, organist; 8:30, Marquette university.

WHAS Louisville, Ky. (399.8m-750kc) 7:30-9 p. m. concert.

WHB Kansas City, Mo. (365.6m-820kc) 7-8 p. m. Sweeney orchestra; Songsters.

WHO Des Moines, Ia. (526m-570kc) 7:30-8 p. m. program; 8-9, Headliner; 11-12, dance program.

WHI Chicago, Ill. (399.8m-750kc) 6 p. m. Al Carney; Eleanor Gilmore; Helen Rauh; 7:45 (238m-1260kc), Stuart Dawson; 9:30 (399.8m-750kc), Kenneth Clark and his Hawaiians; 12, Al and Pat.

WIBO Chicago, Ill. (225.4m-1330kc) 6-8 p. m. evening musicale; 10-1, dance program.

WJAZ Chicago, Ill. (329.5m-910kc) 7 p. m. popular program; 8, highlights; 9, Shoreland; 10:30, Club Chez Pierre.

WJJD Moosehart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-1 a. m. Palmer House Victorians; Jack Nelson.

WLIB Chicago, Ill. (302.8m-990kc) 11-12 midnight, songs, Correll and Gosden; Ambrose Larsen organist; Bobby Meeker's Drake hotel dance orchestra; romantic songs, Tommy Coates, baritone; 12-1 a. m., 9 p. m. air line.

WLS Chicago, Ill. (444.6m-870kc) 7 p. m. May and June; 7:15, duo, Old Town Coffee room; 8, program; 9:30-12, show boat.

WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 6:30, Wide Awake club; 8, musicale; 9, air line.

WMBB Chicago, Ill. (249.9m-1200kc) 7-8:30 p. m. Trio duo; Norman Hartie, baritone; Veronica Krebs, contralto; John Stamford; 8:30-11, frolic.

WMC Memphis, Tenn. (499.7m-600kc) 8 p. m. Mississippi Valley facts; 8:30, Cooper Cord entertainers.

WQAI San Antonio, Tex. (394.5m-760kc) 8:30-9:30 p. m. musical program.

WQAW Omaha, Nebr. (526m-570kc) 6 p. m. Hugo Bern, marimba soloist; Emil Hofmann, pianist; 6:50, orchestra; 9, classical.

WOC Davenport, Iowa (483.6m-620kc) 7:30-8:30 p. m. Moorman Melody Mixers; 8:30-9, WEA; 9-9:30, WEA; 9:30-10:30, lecture.

WOK Chicago, Ill. (238m-1260kc) 6-7:45 p. m. string ensemble; 8-9 (217.3m-1380kc), theater program; 9:30-12 (238m-1260kc), theater program.

WOOD Grand Rapids, Mich. (241.8m-1240kc) 8 p. m. program; 9, Van Wyck instrumental quartet.

WORD Chicago, Ill. (275.1m-1090kc) 7 p. m. North Shore line; 7:45, World News digest; 9, station program.

WOS Jefferson City, Mo. (440.9m-680kc) 7:15 p. m. Radio Bible class, talks; 8:20, musicale.

WQJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainbo Gardens orchestra; 10-2 a. m. Rainbo frolic.

WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. concert; 10:45, concert.

WSBC Chicago, Ill. (288.3m-1040kc) 6:30-8:30 p. m. dinner program; 9:30-1, New Jeffrey Tavern syncopators.

WSM, Nashville, Tenn. (282.8m-1060kc) 6:45 p. m. Andrew Jackson hotel orchestra; 8, studio concert; 10, studio concert; 10:30, F. Arthur Henkel, organist.

WSWS Chicago, Ill. (275.8m-1090kc) 6 p. m. dinner hour program; Terrace Garden orchestra; 8, recital; 10, Mildred Colucio, blues singer; Terrace Garden orchestra; 12, Witching hour program; Terrace Garden orchestra.

Mountain Time Stations

KOA Denver, Colo. (322.4m-930kc) 8 p. m. KOA orchestra; 8:15, studio program.

KOB State College, N. M. (348.6m-860kc) orchestra.

Pacific Time Stations

KFI Los Angeles, Calif. (467m-640kc) 7-8 p. m. popular program; 8-9, Aeolian organ recital; 9-10, semi-classical hour; 10-11, Packard ballad hour.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Longa dinner hour; 7:50, news; 9-10, Bill Hatch and his orchestra; 10-11, Warner Brothers frolic.

KGO Oakland, Calif. (361.2m-830kc) 6-6:55 p. m. Stanislas Bem's Little symphony.

KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner concert; 8-8:30, KGW movie club; 8:30-10:30, dance music; 10:30-12, frolic, Hoot Owls.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-10, feature program; 10-11, Marigold Gardens dance orchestra.

KLX Oakland, Calif. (508.2m-590kc) 8-9:30 p. m. special program; 9:30-10:30, Athens Athletic club orchestra.

KMTR Hollywood, Calif. (370.2m-810kc) 8-9 p. m. ensemble; 9-10, dance music; 10-12, Palais de Danse.

KNX Hollywood, Calif. (336.9m-890kc) 7 p. m. feature; 8, 9, 10, features; 11, Hotel Ambassador.

BONNER B-BATTERY ELIMINATOR

50c PER YEAR
Throw Away Your B-BATTERIES

Connects to set like B-Batteries—uses 110-volt alternating light current. Better than batteries—its power is always strong. Improves any set.

BONNER B-BATTERY ELIMINATOR
90-volt **\$1.250**
Model

135-volt model—\$17.50

No controls to get out of order, no hum, no distortion, no tubes to burn out, no acid to ruin things, no trouble, absolutely noiseless. Designed by renowned radio engineers. In two-tone art crackle finish.

FREE TRIAL

Mail \$1.00 with your name and address—balance on delivery. After five days' trial, we will refund your money and full transportation charges if you are not entirely satisfied. If you prefer, mail full amount and save postal collection fees.

Stop wasting money on batteries.
Mail \$1.00 with your name and address now.

BONNER ELECTRIC CO.
2408 Central Ave., Minneapolis, Minn.
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What Really Comes Through Your Transformer?

We know what you want to get out of your set. Everyone wants it. It is clear, pure-toned reception—and you don't want to miss a note from the muffled base of the kettledrum or the profound booming of the baseviol to the shrill "sky-high" tones of the fife and piccolo.

So much depends on your circuit, so much on your speaker—but even more on your transformers. To render sweet music and to get the full range of orchestral or instrumental performance, the transformer must faithfully reproduce all frequencies.

The FERRANTI TRANSFORMER

Meets Every Condition of Good Audio Reception

It takes two and a half miles of wire for the coils of the A. F. 3 and one and a half for the A. F. 4 plus the many refinements which the genius of Dr. Ferranti has made possible, to create transformers whose amplification curve is almost perfect—almost a straight line. By installing Ferrantis you can modernize your old set or perfect your new one. Ferranti will give you an uncensored message from the sending station.

If you want to make the best of the power tube feeding the loud speaker, use Ferranti.

Ask your dealer for a Ferranti. Don't be satisfied until you have installed one. If he does not carry Ferranti Transformers, write us and we shall tell you where you can get one. No better transformer is available at any price.

FERRANTI, INCORPORATED
130 West 42nd Street
New York, N. Y.

HIGHSPOTS

High amplification ratio with flat curve.

Ferranti brings out the fundamental frequency of low tones—none are heard merely by inference from higher harmonics.

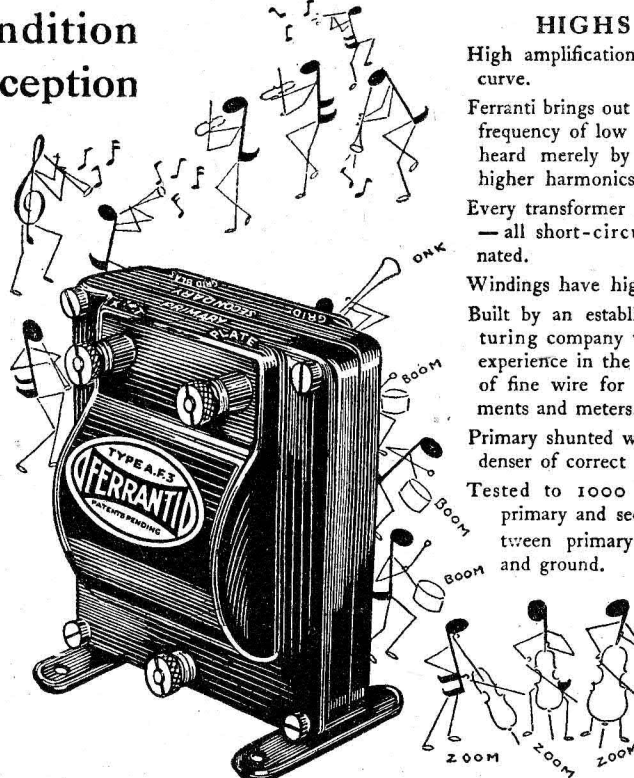
Every transformer tested ten times—all short-circuit turns eliminated.

Windings have high impedance.

Built by an established manufacturing company with forty years' experience in the winding of coils of fine wire for electrical instruments and meters.

Primary shunted with built-in condenser of correct capacity

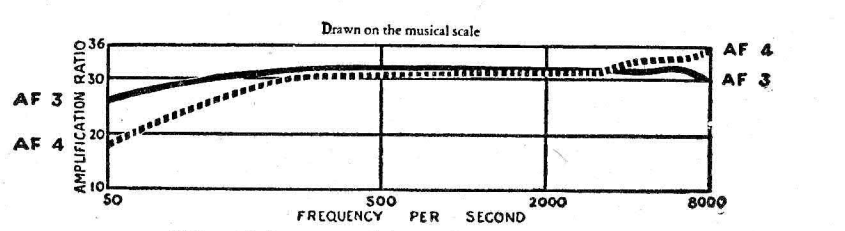
Tested to 1000 volts between primary and secondary and between primary and secondary and ground.



For the best available transformer results—Ferranti Audio Frequency Transformer A. F. 3—ratio 3½ to 1—\$12.

For a transformer far superior to the average, use Ferranti A. F. 4—ratio 3½ to 1—\$8.50.

Drawn on the musical scale



This graph is drawn on a musical scale—the only accurate way of showing the full value of each tone which your set receives. Note that the evenness and fullness of amplification in both the Ferranti A. F. 3 and the A. F. 4 extends throughout the range of the organ, cello and the human voice.

THE NEARLY PERFECT TRANSFORMER

KPO San Francisco, Calif. (428.3m-700kc) 6:30 p. m. States Restaurant orchestra; 8:30-9. Cabiria cafe orchestra; 9-10, Palace Hotel Rose Room dance orchestra; 10-11, States Restaurant orchestra; 11-12, Clift Hotel dance orchestra.

Friday, silent night for: CFCA, CKNC, KFDY, KNFN, KGO, KLDK, KPCC, KPSN, KUOA, KWWG, PWX, WBBR, WCAD, WCBF, WFI, WGBS, WIP, WJAZ, WKRC, WLIT, WLW, WLWL, WREO, WSAI, WSMB, WSUI, WTAM.

SATURDAY, DECEMBER 4 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, December 4.

SATURDAY, DECEMBER 11 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, December 11.

Build It Yourself Parts Complete \$14.15 Including Unit. Penn Cone Speaker Unit. In one evening and for 1/5 retail cost you can build the finest 3 foot Cone Speaker.

Building Your Own 3 Foot Cone? —choose cone material carefully. ALHAMBRA FONOTEX FOR CONE TYPE LOUD SPEAKERS.

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, December 4.

Educational Features Saturday

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists educational programs for Saturday.

Regular Saturday Features Eastern Time Stations

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists regular Saturday features for Eastern Time Stations.

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists regular Saturday features for other time zones.

A-B&C Socket Power. Kodol Transifiers operate any receiver direct from the light socket. Model 15 'A & B'—4 or 6 volts 'A' current, 22 1/2 to 180 volts 'B' \$65.00.

Make a Power Unit of your radio battery. SILITE TRICKLE CHARGERS. You can make an efficient light socket 'A' power unit of your present radio battery.

Central Time Stations

CKY Winnipeg, Can. (384.4m-780kc) 9:30-10:30 p. m. Herbert Sadler, organist.
KFAB Lincoln, Nebr. (340.7m-880kc) 8:30-10:30, variety program.
KFNF Shenandoah, Ia. (461.3m-650kc) 7 p. m. headliner; 11 old time music.
KMA Shenandoah, Ia. (461.3m-650kc) 9-11 p. m. Greenlee Brothers.
KMOX St. Louis, Mo. (280.2m-1070kc) 6:30 p. m. Children's club; 7, Little Red Schoolhouse; 8, orchestra; 9, KMOX Minstrels; 9:30, orchestra; 10, dance music.
KOIL Council Bluffs, Ia. (305.9m-980kc) 6:03 p. m. Y Pioneer Radio club; 6:30, McCrory music period; 7, practical radio; 7:30, entertainers; 8, artists; 11, Ambassadors.
KPRC Houston, Tex. (299.8m-1000kc) 7:30 p. m. Bible class; 8, Skyline studio concert; 11, frolic.
KTHS Hot Springs, National Park, Ark. (374.8m-800kc) 9:10-10 p. m. dance frolic; 10:15-10:45, Specialties.
KVOO Bristow, Okla. (374.8m-800kc) 6-7 p. m. S. S. lesson; 7-8, Gleeman; 8-9, orchestra; 12, Southern entertainers.
KYW Chicago, Ill. (535.4m-560kc) 6 p. m. bedtime story; 6:30, Joska DeBarby and his orchestra; Johnny Hamp and his orchestra; 7, Family hour; 9:10-30, classical concert; 10:30-12, Congress carnival.
WBAF Fort Worth, Tex. (475.9m-630kc) 8-8:30 p. m. pianist; 9:30-11, orchestra.
WBBM Chicago, Ill. (226m-1330kc) 8 p. m. Coon-Saunders Night Hawks; 8:15, Log Cabin days; 8:45, safety play; 9, orchestra, artists; 11:30, supper club; 12, Nutty club.
WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 6:15 p. m. Wesley Barlow's Nicollet hotel orchestra; 8, WEAF; 9, program; 10:05, dance program, Wallie Erickson's orchestra.
WCFM Chicago, Ill. (491.5m-610kc) 7 p. m. Brevoort trio; 8, vaudeville hour; 10, Alamo orchestra; 11-12, entertainers.
WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. school of the air; 8-9, WEAF; 9-10, around the town; 11:45-1, Nighthawk frolic.
WEBH Chicago, Ill. (370.2m-810kc) 7 p. m. Edgewater Beach hotel orchestra; 11-2 a. m., orchestra; Sunset male quartet.
WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Rauland lyric trio; 8-10, All-American Pioneers; 12-2, All-American Pioneers.
WFAA Dallas, Tex. (475.9m-630kc) 6:30-7:30 p. m. Baker hotel orchestra; 8:30-9:30, concert; 11-12, concert.
WGN Chicago, Ill. (302.8m-990kc) 6:35-7 p. m. Drake concert ensemble; Blackstone string quintet; 8-9, WEAF; 9-10, Light opera period; 10, Sam 'n' Henry; 10:10, The Music Box; 10:20, song program; 10:40-11, songs, Correll and Gosden.
WHAD Milwaukee, Wis. (275.1m-1090kc) 6:10 p. m., orchestra and vocal selections, Wisconsin hotel.
WHAS Louisville, Ky. (389.8m-750kc) 7:30-9 p. m. studio concert.
WHT Chicago, Ill. (389.8m-750kc) 6 p. m. Al Carney, organist; 7:45 (238m-1260kc), Stuart Dawson; 9:30 (399.8m-750kc), Brown and Craig; 12, Pat and Al.
WIBO Chicago, Ill. (225.4m-1330kc) 6-7 p. m. dinner concert; 7-8, Bradley college hour.
WJAZ Chicago, Ill. (329.5m-910kc) 6:30 p. m. dinner program; 7-8, Shoreland; 8, musical highlights; 9-11, Shoreland; 11-2, frolic.

WJJD Mooseheart, Ill. (370.2m-810kc) 8-11 p. m.; Victorians, Gail Bandell; 12-1 a. m. Sett'n' Up hour, Victorians; Jack Nelson, Gail Bandell.
WLBI Chicago, Ill. (302.8m-990kc) 7-7:10 p. m. dinner concert, Drake concert ensemble; Blackstone string quintet; 7:10-7:22, Old Fashioned Almanack and the Million Sing; 7:22, Adventures of Oney Fred Sweet; 7:30-7:45, orchestra; 7:45-8, Neighbor Daw in old time songs; 11-12 midnight, songs, Correll and Gosden; Ambrose Larsen, organist; Bobby Meeker's Drake hotel dance orchestra; 12-1 a. m. frolic.
WLS Chicago, Ill. (344.6m-870kc) 6:40 p. m. College Inn orchestra; 7, lullaby time; 7:15-1, barn dance.
WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 6:30, Gus Edwards' orchestra; 8, photologue; 8:30, Chicago theater revue; 9:30, songs.
WMMB Chicago, Ill. (249.9m-1200kc) 7-8:30 p. m. Trianon ensemble; artists; 8:30-11, Trianon orchestra, ensemble.
WMC Memphis, Tenn. (499.7m-600kc) 8:30 p. m. entertainment.
WOAW Omaha, Neb. (526m-570kc) 6 p. m. literary hour; 9, program; 10, Tracy-Brown's Oklahomans.
WOC Davenport, Iowa (483.6m-620kc) 7-8 p. m. musical; 8-9, WEAF.
WOK Chicago, Ill. (238m-1260kc) 6-7:45 p. m. string ensemble; 8-9 (217.3m-1380kc), program; 9:30-12 (238m-1260kc), syncopators.
WORD Chicago, Ill. (275.1m-1090kc) 7 p. m. Webster hotel concert program; 9, studio program.
WQJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainbo orchestra; 10-3 a. m. Rainbo Gardens frolic.
WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. Atlanta Atwater Kent hour; 10:45, Ernest Rogers' Red Head club.
WSEC Chicago, Ill. (288.3m-1040kc) 6:30-8:30 p. m. dinner program; 9:30-1, New Jeffrey Tavern syncopators.
WSKC Bay City, Mich. (260.7m-1150kc) 11-2 a. m. studio program.
WSM Nashville, Tenn. (282.8m-1060kc) 6:45 p. m. dinner concert; 8, barn dance.
WSWS Chicago, Ill. (275.8m-1090kc) 6 p. m. dinner program, Terrace Garden orchestra; 8, production, Magic Crystal; Walter Dyckman, bass; 10, orchestra; John Clark, baritone; ballads, John Ude; 12 midnight, Witching hour.

Mountain Time Stations

KOA Denver, Colo. (322.4m-930kc) 10:30 p. m. Schuetzerman's Colorado orchestra.

Pacific Time Stations

KFI Los Angeles, Calif. (467m-640kc) 7-8 p. m. program arranged by Paul Roberts, tenor; 8-9, program, L. A. Soap company; 9-10, Angelus string quartet; 10-11, Packard Radio club; 11-2 a. m., KFI midnight frolic.
KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 8-9, program, Mona Motor Oil Company; 9-10, headliner; 10-11, Warner Brothers frolic.
KGO Oakland, Calif. (361.2m-830kc) 4-5 p. m. Stanislas Bem's Little symphony; 9-1, Hotel Whitcomb band; Frank Gibney, soloist.
KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner music; 10-12, dance music.
KHL Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-9, varied program.
KMTR Hollywood, Calif. (370.2m-810kc) 7-8 p. m. Fire and Police Depts. program; 8-9, KMTR concert

orchestra; 9-10, studio program; 10-12, Palais de Danse.
KNX Hollywood, Calif. (336.9m-890kc) 7:30 p. m. features; 10, Hotel Ambassador; 11, Saturday night frolic.
KPO San Francisco, Calif. (428.3m-700kc) 6:30 p. m. States Restaurant orchestra; 9-10, Associated Packard dealers; 10-11, Cliff hotel dance orchestra.
KPSN Pasadena, Calif. (315.6m-950kc) 8-9 p. m. Star-News instrumental ensemble.
Saturday, silent night for: CFCA, KFDM, KFDY, KFUD, KLX, KOA, KOB, KSWC, KTAB, KUOA, KWWG, WBAL, WCAL, WCAU, WCCB, WCCX, WEEL, WEML, WEMC, WGBF, WCCP, WGH, WGHF, WGR, WHA, WHAD, WHB, WHN, WHO, WJAR, WLWL, WOAL, WOOD, WOS, WRVA, WTAC, WTIC, WWJ.

SUNDAY, DECEMBER 5 Headliners

Table with columns: Eastern, Central, Mountain, Pacific. Rows list radio stations and their programs for Sunday, December 5.

Steinite AERIELIMINATOR advertisement. Features a portrait of Fred W. Stein and a diagram of the device. Text: 'Eliminates Outside Aerial', 'No more corrosion from the weather...', '\$1 Postpaid 10-Day Free Trial Anywhere Money-Back Guarantee'.

The Radio Listener's Red-Book advertisement. Features a radio tower illustration and text: 'MORE FUN! Better Reception', 'Scientifically arranged—miles ahead of a mere log.', '3-Way Listing—Quick Cross Index', 'DEALERS This is the big seller'.

RANDOLPH RADIO CORPORATION advertisement. Features an illustration of a woman with a radio and text: 'FREE! This 84 Page RADIO BOOK', 'The Guide to Radio prices and Radio Quality.', 'The World's Largest Exclusive Radio Mail Order House', 'SEND FOR BOOK TODAY'.

THE ROLL-O RADIO CO. advertisement. Features a large illustration of the 'B' ELIMINATOR device and text: 'READ this Proof! MONEY BACK if Not Delighted', 'only \$7.95 \$1.00 Down Balance C.O.D.', 'Trickle Charger, \$3.95', 'Send \$1 with this Coupon'.

Eastern	Central	Mountain	Pacific
7:30 p. m.	8:30	5:30	4:30
WOC (483.6m-620kc) "The World's Challenge to Christian Service."			
8:30	7:30	6:30	5:30
WLW (422.3m-710kc) "Getting Acquainted With Beethoven."			
9:15	8:15	7:15	6:15
WEAF (491.5m-610kc) Atwater-Kent radio hour.			
WEEL WGR, WRC, WWJ, WSAI, WGN, WCCO, KSD, WJAR, WTAG, WCAE, WTAM, WOC, WFI.			
Mabel Garrison, soprano, and Ernst von Dohnanyi, pianist. Atwater-Kent orchestra, Louis Edlin, conductor.			
I			
Ario-Manon Massenet			
Aria: Micaela's Aria from Carmen..... Bizet			
Mabel Garrison and the Atwater Kent orchestra.			
II			
Marche Humoresque Dohnanyi			
Aria Dohnanyi			
Presto aus Kurallin Hungarica..... Dohnanyi			
Ernst von Dohnanyi			
III			
Danny Boy Old Irish			
When I was Seventeen..... Swedish			
Estrellita Mexican			
Mah Lindy Lou..... Strickland			
Mabel Garrison and accompanist			
IV			
Hungarian Rhapsodie Liszt			
Ernst von Dohnanyi			
V			
Waltz song, "Il Bacio"..... L. Arditi			
Mabel Garrison and orchestra			
George Siemann, accompanist			
9:30	8:30	7:30	6:30
WFAA (475.9m-630kc) Songs, Dr. and Mrs. R. Thompson.			
12:15 a. m.			
WHB (365.6m-820kc) College, Fraternity and Sorority program. M. Moore, organist.			

SUNDAY, DECEMBER 12 Headliners

Eastern	Central	Mountain	Pacific
10:15 a. m.	9:15	8:15	7:15
KFJU (545.1m-550kc) "The Purifier of His People." Musicale.			
12	11	10	9
KOA (322.4m-930kc) First United Presbyterian church. Quartet, chorus.			
4 p. m.	3	2	1
WSM (282m-1060kc) Nashville symphony orchestra concert. Solon Drukenmiller, tenor.			

Eastern	Central	Mountain	Pacific
4	3	2	
KFJU (545.1m-550kc) "In My Father's House Are Many Mansions." Musical program.			
KOA (322.4m-930kc) Denver El Jebel Shrine band.			
6	5	4	
WSB (428.3m-700kc) Jenkins family, gospel songs.			
8:30	7:30	6:30	5:30
KOA (322.4m-930kc) Organ recital, Paul Eslinger.			
8:45	7:45	6:45	5:45
WSB (428.3m-700kc) Second Baptist church service.			
9:15	8:15	7:15	6:15
WEAF New York, N. Y. (491.5m-610kc), WEEL, WGR, WRC, WWJ, WSAI, WGN, WCCO, KSD, WJAR, WTAG, WCAE, WTAM, WOC, WFI. Atwater Kent radio hour.			
Mme. Frances Alda, soprano. Assisted by Atwater Kent Orchestra, Louis Edlin, conductor.			
I			
(Atwater Kent Orchestra)			
II			
a. A Christmas Carol..... Bax			
b. Je ne suis qu'une Bergera..... Philidor			
c. In the Time of Roses..... Reichardt			
d. Nymphs and Shepherds..... Purcell			
(Madam Alda)			
III			
Aria from La Villi..... Catalani			
(Madam Alda)			
IV			
a. J'ai Pleure en Reve (French)..... Hue			
b. Mensaje (Spanish)..... Feuster			
c. Polubila (Russian)..... Rachmaninoff			
d. Erstes Begegen (German)..... Greig			
e. Jag Leifer (Finnish)..... Merikanto			
(Madam Alda)			
V			
(Atwater Kent Orchestra)			
VI			
Aria: "Jewel Song" from Faust..... Gounod			
(Madam Alda)			
VII			
a. The Birth of Morn..... Leoni			
b. Last Night..... Kjerulf			
c. Thank God for a Garden..... Del Riego			
d. Song of the Open..... La Forge			
e. Home Sweet Home..... Payne			
(Madam Alda)			
9:15	8:15	7:15	6:15
WEAF (491.5m-610kc) Atwater Kent program, Frances Alda, see chain above.			
9:30	8:30	7:30	6:30
KOA (322.4m-930kc) First United Presbyterian church.			

Eastern	Central	Mountain	Pacific
11:30	10:30	9:30	8:30
WBAP (475.9m-630kc) Sorin-White Texas Hotel orchestra.			
12	11	10	9
WFAA (475.9m-630kc) Harry Hassall and his symphonic orchestra.			
12:15 a. m.	11:15	10:15	9:15
WHB (365.6m-820kc) Flapper night program.			

Regular Sunday Features Eastern Time Stations

CFCA Toronto, Can. (356.9m-840kc) 11 a. m. services; 7 p. m., St. Paul's Anglican church; 8:45, musical program.
KDKA Pittsburgh, Pa. (309.1m-970kc) 6:30 p. m. KDKA Little symphony orchestra; 7:30, service; 10:15, Maxwell Coffee hour of music.
PWK Havana, Cuba (399.5m-750kc) 8:30-11:30 p. m. Cuban songs and music.
WBRR New York, N. Y. (416.4m-720kc) 10 a. m. music, choral singers; 2 p. m., Watchtower string quartet, vocal, Bible lecture; 8, Watchtower violin choir, vocal selections.
WVZ Springfield, Mass. (333.1m-900kc) 10 a. m. services; 6:30 p. m. organ; 7, quartet; 7:30, program; 8, address; 9, program; 10, WJZ.
WCAE Pittsburgh, Pa. (461.3m-650kc) 4 p. m. WEAF; 6:30, orchestra; 7:15, WEAF; 9:15, WEAF.
WCAU Philadelphia, Pa. (277.6m-1080kc) 11 a. m. services, First Unitarian church; 5, recital; 5:15, Undenominational church services; 5:25, sermon, Rev. John W. Stockwell; 6:45, orchestra; 7:45, Cathy Garden orchestra; 8:30, Bonwit Teller Ensemble; 10, Al Zensay's orchestra.
WCWS Bridgeport, Conn. (285.5m-1050kc) 10:50 a. m. service; 2 p. m. Sunday afternoon concert.

WCX Detroit, Mich. (516.9m-580kc) 7:15 p. m. Central Methodist Episcopal church.

WEAF New York, N. Y. (491.5m-610kc) 6 p. m. orchestral concert; 7:20, musical program from the Capitol theater, WEEL, KSD, WRC, WWJ, WJAR, WCAE, WTAG; 9:15, Atwater-Kent radio hour, WEEL, WGR, WRC, WWJ, WSAI, WGN, WCCO, KSD, WJAR, WTAG, WCAE, WTAM, WOC, WFI; 10:15, Shakespear.

WEEL Boston, Mass. (348.6m-880kc) 10:50 a. m. Old South church; 2 p. m., program; 4, WEAF; 7:20, WEAF; 9:15, WEAF; 10:15, B. F. Keith's theater.

WGBS New York, N. Y. (315.6m-950kc) 4 p. m. Evening song and devotions, Church of the Transfiguration.

WGR Buffalo, N. Y. (319m-940kc) 10:45 a. m. service; 7:45, Central Presbyterian church; 9:15-10:15, WEAF.

WGY Schenectady, N. Y. (379.5m-790kc) 3 p. m., musicale; 4:30, organ recital, Elmer A. Tidmarsh; 7:30, service; 9, WJZ; 10:15, WJZ.

WHN New York, N. Y. (381.2m-830kc) 6:30 p. m. Libby's Hotel orchestra; 11:30, The Playground.

WIP Philadelphia, Pa. (508.2m-590kc) 3:30 p. m. concert.

WJAX Jacksonville, Fla. (336.9m-890kc) 11 a. m. service; 8-9, services.

WJR Detroit, Mich. (516.9m-580kc) 10 a. m. First Baptist church; 10 p. m. special song service, First Baptist church.

WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Park Avenue Baptist Church; Carillon; 7:20, Hotel Ambassador trio; 8:30, Hotel Commodore concert orchestra, WGY will also broadcast; Godfrey Ludlow, violinist; 10:15, Maxwell House Coffee hour, WBZ, WRC, WGY & KDKA will also broadcast.

WKRC Cincinnati, Ohio (325.9m-920kc) 6:45 p. m. Walnut Hills Christian church; 10, classical program; 11:15, Louisville Loons; 12, Marie Turner; 12:15, Louisville Loons.

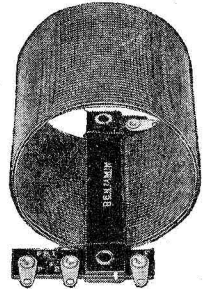
Leadership

with Benjamin Radio Products in Securing the Best Radio Results



All Benjamin Radio Products are of the same high standard as the far-famed Cle-Ra-Tone Sockets

Improved Tuned Radio Frequency Transformers



Space wound; basket weave; cylindrical; highest practical air dielectric. Proved to give the best results in sharpness of tuning, increase in volume and improvement in quality. Authoritative laboratory tests and practical experience of manufacturers and amateurs shows that this type of coil excels in every important characteristic.

2 1/4-inch Diameter Transformer

Compact. Especially desirable for crowded assembly. Eliminates interfering "pick-ups."

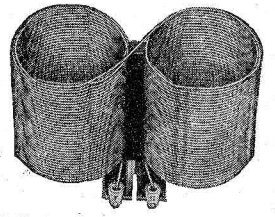
Set of Three, \$5.75
Single Transformer, \$2.10

3-inch Diameter Transformer

Capacity coupling reduced to lowest degree. For use with .00035 Mfd. Condensers.

Set of Three, \$6.00
Single Transformer, \$2.25

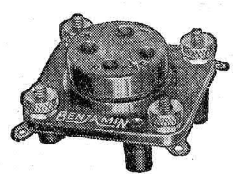
"Lekeless" Transformers



Uniform high inductance, low distributed capacity and low resistance. The external field is so slight that it permits placing coils close together without appreciable interaction.

Single Transformer, \$2.50

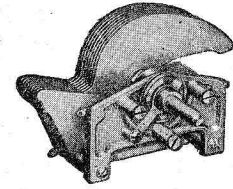
Cle-Ra-Tone Spring Supported—Shock-Absorbing Sockets



Spring Supported, Shock-Absorbing. Stop Tube Noises. The greatest aid to non-noisy operation. Contacts always clean.

75 cents each

Straight Line Frequency Condensers



Eliminates bunching of stations. Spreads the dial evenly over the log. Makes tuning easy. Adjustable turning tension. Compact. A beautiful instrument that not only improves reception, but adds to the good appearance of the set.

.00025 Mfd., \$5.00
.00035 Mfd., \$5.25
.0005 Mfd., \$5.50



Brackets
An aid to simplification in set construction. Supports the sub-panel, with room underneath for accessories and wiring.

Plain—70c pair. Adjustable—\$1.25 pair

Battery Switch

Quick positive, clean-cut make and break. When it's "in" it's "off", eliminating danger of wasteful use of battery.

30 cents each



One Dial LONG DISTANCE 5 TUBE RADIO \$25.00

EVERYBODY, including experienced radio engineers, said—it cannot be done. But we did it—produced a high grade, long distance single dial control radio to operate a loud speaker to retail for—\$25.00 and yet allow liberal discount to agents.

This marvelous instrument is the result of five years' hard work by an organization of trained radio engineers. It is no experiment—thousands are in use—the results speak for themselves.

There Will Be a Radio in Every Home

Thousands have been waiting for just such a radio—a real long distance, powerful instrument—but at a price they can afford. It is here, and live, wide-awake salesmen will recognize their opportunity immediately—they won't lose a single minute writing for full information.

A \$25 Radio Which Will Equal a \$75 Radio

Put a Model 599 Viking, which retails for \$25.00, alongside any radio retailing for \$75.00 and even more. Compare them for ease of tuning—only one dial to tune on the Viking—distance received, volume and tone. The results will make any man say, "I'll save that \$50.00."

Agents Wanted Make \$100.00 a Week

You Should Make \$100.00 a Week Easily

You can't help it—many will make more. Some will control a county—others will control many

counties. We have the liveliest radio selling plan of today—instruments of all prices—a radio price to fit every pocket book.

Sell Radio in Your Spare Time—Evenings

You don't even have to give up your present position. The only time radio can be sold is in the evening—by demonstration. So here is a chance to add to your present income. During the past five years we have trained 4,364 men in this very profitable business.

Territory Is Going Fast—Better Write Today

Someone is going to get the big profit on the sale of these instruments in your community—is that someone going to be you? Write today for our 100 page book which fully describes not only this wonderful instrument but also a full line of radio at all prices. It's FREE for the asking.

Use This Coupon

C. Y. Fischer, 122 W. Austin Ave., Chicago, Ill.

I am interested in selling your 5 tube set in this territory. Please send me your 100 page radio book, FREE.

Name

Address

City

County

State

WLW Cincinnati, Ohio (422.3m-710kc) 11 a. m. service; 3, organ; 4, choir; 7:30, service; 8, musicale; 8:50, Crosley concert orchestra.
 WMAK Buffalo, N. Y. (265.5m-1130kc) 10:25 a. m. service; 3 p. m., WFBL; 7:50, service.
 WMC New York, N. Y. (340.7m-880kc) 6 p. m. Romer's Homers; 7, Ernie Golden and his Hotel McAlpin orchestra; 10, Monte Carlo orchestra.
 WOO Philadelphia, Pa. (508.2m-590kc) 2:30 p. m. Sunday School musical exercises; 6, organ recital, Clarence K. Bawden.
 WPC Atlantic City, N. J. (299.8m-1000kc) 3:15 p. m. organ recital, Arthur Brook; 4:15, community vocal and instrumental recital; 9:15, concert orchestra; 10, Sunday evening concert.
 WRC Washington, D. C. (468.5m-640kc) 11 a. m. service; 4 p. m. chapel; 7:20, WEAJ; 9:15, WEAJ; 10:15, WJZ.
 WSAI Cincinnati, Ohio (325.9m-920kc) 11 a. m. service; 4:50 p. m. WEAJ; 7:45-10:15, WEAJ.
 WTAC Worcester, Mass. (545.1m-550kc) 7:20 p. m. WEAJ; 9:15, WEAJ.
 WTAM Cleveland, Ohio (389.4m-770kc) 11 a. m. service; 3 p. m. musicale; 6, Hollenden hotel orchestra; 7, Stillman theater orchestra; 8, services; 9:15, WEAJ; 10:15, Austin Wylie's Vocalion Recording orchestra.
 WWJ Detroit, Mich. (352.7m-820kc) 10 a. m. service; 2 p. m. Detroit News orchestra; 4, vesper service; 7:30, WEAJ; 9:15, WEAJ.

Central Time Stations

CKY Winnipeg, Can. (384.4m-780kc) 11 a. m. Wesley church; 7-8:30 p. m. First English Lutheran church; 9:10, Royal Alexia.
 KFAB Lincoln, Neb. (340.7m-880kc) 9-10:30 p. m. Sunday evening musicale.
 KFNE Shenandoah, Iowa (461.3m-650kc) 10:45 a. m. services; 2:30 p. m. Seed House song service; 3, headliner; 6:30, Golden Rule Circle; 7:30, services.
 KLD Independence, Mo. (440.8m-680kc) 8:30 a. m. Bible study; 11, Stone church; 3 p. m. Radio church; 6:30, vespers; 9:15, studio service.
 KMA Shenandoah, Iowa (461.3m-650kc) 4-5 p. m. sacred program.
 KMOX St. Louis, Mo. (280.2m-1070kc) 9 p. m. Sunday night club; 10:30-12, ballroom.
 KOIL Council Bluffs, Iowa (305.9m-980kc) 11 a. m. First Congregational church; 7, children's hour; 7:30, Dean Nordin and his orchestra; 11, Ambassadors.
 KPCC Houston, Texas (299.8m-1000kc) 7:30 p. m. church service; 9:30, evening concert; 11, Texan theater pipe organ.
 KSO Clarinda, Iowa (405.2m-740kc) 11 a. m. M. E. church.
 KTHS Hot Springs National Park, Ark. (374.8m-800kc) 11 a. m. 12:15 p. m. service; 9-9:45, Meyer Davis ensemble, classic hour concert; 9:45-10:30, Lawson Reid, organist; 10:30-11:30, Arkansas Traveler Radio Train.
 KVOO Bristow, Okla. (374.8m-800kc) 1-2 p. m. Walter Schoggan, Doris Kintner; 5-6, Gospel hour; 6-7, Sophia Ostina, pianist; 7-9, services; 12-1, Melody Boys.
 KYW Chicago, Ill. (535.4m-560kc) 11 a. m. Central church service; 4:30 p. m. Edwin Harper; 7-8:30, Sunday evening club; 9:30-11, classical concert.
 WBAJ Fort Worth, Texas (475.9m-630kc) 11 a. m. First Methodist; 5-6 p. m. vesper services, Baptist seminary; 9:30-11, Sorin-White Texas hotel orchestra.
 WEBB Chicago, Ill. (226m-1330kc) 8 p. m. Coon-Sanders and Hawk; 8:15, travel talk; 9-12, frolic; 12, Nutty club; Coon-Sanders orchestra.
 WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 10:50 a. m. services; 4:10 p. m. House of Hope Presbyterian church; 6:20, Second Church of Christ, Scientist; 8:15, WEAJ; 9:15, musical program.
 WCFB Indianapolis, Ind. (340.7m-880kc) 10:30 a. m. recital, Hugo Philler Goodwin.
 WDAF Kansas City, Mo. (365.6m-820kc) 3-4 p. m. Star's orchestra; 4-4:45, vespers.
 WEBH Chicago, Ill. (370.2m-810kc) 5 p. m. Seventh Church of Christ Scientist; 5-6, twilight musicale; 7-9, artists' program.
 WEMC Berrien Springs, Mich. (315.6m-950kc) 11 a. m. studio sacred; 8:15 p. m. chapel.
 WENR Chicago, Ill. (265.3m-1130kc) 2-3 p. m. chapel

hour of music; 3-4, classical program; 9:30-12, All-American Pioneers.
 WFAA Dallas, Texas (475.9m-630kc) 6-7 p. m. Bible class; 7:30-8:30, services; 8:30-9:30, artists; 11-12, orchestra.
 WGBF Evansville, Ind. (236.1m-1270kc) 7:30 p. m. services.
 WGN Chicago, Ill. (302.8m-990kc) 6:45-7 p. m. Blackstone string quintet, solo artists; 7, The Million Sing; 7:20, Old Fashioned Almanack; 7:30, Drake concert ensemble; Correll and Cosden; 8, Audl Sandy; 8:15, WEAJ; 9:15, Our Music Room; 10, Sam Henry; 10:10, Armand Buisseret, violinist; 10:20, Bible reading; 10:30-11, Coon-Sanders orchestra.
 WHAD Milwaukee, Wis. (275.1m-1090kc) 3:15 p. m. Turnverein concert.
 WHAS Louisville, Ky. (399.8m-750kc) 10 a. m. services; 4:30-5:30 p. m. choral evensong.
 WHB Kansas City, Mo. (365.6m-820kc) 9:40 a. m. Linwood Blvd. Christian church; 11:10-12:30, Independence Blvd. Christian church; 7-7:45, Dr. Burris A. Jenkins; 8-9, Westport Methodist church; 11:15-1, Morrill Moore, organist; Don Anchors, poet.
 WHO Des Moines, Iowa (526m-570kc) 11 a. m. service; 5-6 p. m. Bankers Life Little symphony; 7:30-9, orchestra; 11-12, musical program.
 WHT Chicago, Ill. (399.8m-750kc) 1-12 midnight, Paul Rader.
 WJAZ Chicago, Ill. (329.5m-910kc) 4:30-9 p. m. Sunday evening concert.
 WJLD Mooseltown, Ill. (370.2m-810kc) 7:45-8:45 a. m. Catholic church; 9:30-10:30, Protestant services; 1-2 p. m. Howard Peterson, organist; 2-2:30, Bible class; 2:30, Sacred song service; 3-4, popular concert; 4-5, Palmer House Sunday symphony orchestra.
 WLIB Chicago, Ill. (302.8m-990kc) 5-6:15 p. m. Herbert Johnson, pianist; Leon Lichtenfeld, cellist; Tommy Coates, baritone; Blackstone string quintet.
 WLS Chicago, Ill. (344.6m-870kc) 10:45 a. m. University of Chicago service; 12:30, Elsie Mae Look, organist; 1-45-2:30, chapel service; 6-8, WLS Little Brown church.
 WMMB Chicago, Ill. (249.9m-1200kc) 3-6 p. m. Sunday afternoon concert; 7:40, church service; 9-11, Trianon orchestra, artists.
 WMC Memphis, Tenn. (499.7m-600kc) 11 a. m. church service.
 WOAW Omaha, Nebr. (526m-570kc) 9 a. m. Omaha Gospel tabernacle; 1:30 p. m. Father Flanagan's Boys' home period; 9, chapel service.
 WOC Davenport, Iowa (483.6m-620kc) 1-2 p. m. old folks' musicale; 6:30-7, church service; 8:15-9:15, WEAJ; 10-11, Palmer Little symphony.
 WORD Chicago, Ill. (275.1m-1090kc) 10 a. m. I. B. S. A. service; 2:30 p. m. Chicago Rapid Transit company program; 3:30, Bible lecture; 7, Webster hotel duo orchestra; 9, I. B. S. A. choral singers.
 WOJ Chicago, Ill. (447.5m-670kc) 10:45 a. m.-12:45 p. m. People's church; 5-6, musical program; 10-11, popular program; Rainbo Gardens orchestra; Jack Klein, Adelaide Kerkoff, Harry Geise.
 WSB Atlanta, Ga. (428.3m-700kc) 5 p. m. sacred concert; 8, services.
 WSBC Chicago, Ill. (288.3m-1040kc) 5-7 p. m. Sunday concert; 9-10, concert; 10-1, New Jeffrey Taverni syncretists.
 WSKC Bay City, Mich. (260.7m-1150kc) 11-12 noon services.
 WSM Nashville, Tenn. (282.8m-1060kc) 10:30 a. m. service.

Mountain Time Stations

KOA Denver, Colo. (322.4m-930kc) 10:30 a. m. church service; 7:45 p. m. church service.

Pacific Time Stations
 KFI Los Angeles, Calif. (467m-642kc) 7-8 p. m. Jack Smith's dance orchestra; 8-9, Aeolian organ recital; 9-10, Bob Bottger's Venetians; 10-11, Packard Six dance orchestra.
 KFVB Hollywood, Calif. (252m-1090kc) 9-11 p. m. Warner Brothers Sunday night movie frolic.
 KGO Oakland, Calif. (361.2m-830kc) 11 a. m. service; 2:45 p. m. symphony; 6:30-7:30, little symphony; 7:35, service; 9-10, symphony.
 KGW Portland, Ore. (491.5m-610kc) 11 a. m. church; 7:30-9 p. m. church; 9-10, symphony orchestra.
 KHJ Los Angeles, Calif. (405.2m-740kc) 7-8 p. m. service, First M. E. church; 8-10, Request program by Orpheus Four male quartet and Frederick MacMurray, viola soloist.
 KMTR Hollywood, Calif. (370.2m-810kc) 6:30-7 p. m. Leila Castberg's half hour; 7-8, Cafe Lafayette string quartet; 8-10, classical program.
 KNX Hollywood, Calif. (336.9m-890kc) 6:30 p. m. service; 8, orchestra; 9, feature.
 KPO San Francisco, Calif. (428.3m-700kc) 6 p. m. States Restaurant orchestra; 6:35, Palace hotel concert orchestra; 8:35-10, Rudy Seiger's Fairmont hotel concert orchestra.
 KPSP Pasadena, Calif. (315.6m-950kc) 10:30 a. m. Family Altar service, United Brotherhood.

Sunday, silent night for: CKAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFDY, KFXF, KLX, KMA, KOB, KSWC, KWWG, WAHG, WCFL, WDAF, WEBJ, WFI, WGBF, WGHF, WGPC, WHAD, WHAS, WJJD, WJR, WLIT, WLWL, WMAQ, WMC, WNYC, WOJ, WOO, WOOD, WOR, WSMB, WRVA, WSW, WTIC.

MONDAY, DECEMBER 6 Headliners

Eastern	Central	Mountain	Pacific
7 p. m.	6	5	4
WHN (361.2m-830kc)	Movie club.		
8	7	6	5
WHAZ (379.5m-790kc)	Collar City quartet.		
8:10	7:10	6:10	5:10
WTIC (475.9m-630kc)	New Departure band.		
WEAF (491.5m-610kc)	Old Timers' concert.		
8:15	7:15	6:15	5:15
WRVA (256m-1170kc)	The Mysterious Voice and artists, Guess Who?		
8:30	7:30	6:30	5:30
WHAZ (379.5m-790kc)	Educational address.		
8:45	7:45	6:45	5:45
WHAZ (379.5m-790kc)	Calvin Dater, 88-year-old singer.		
9	8	7	6
KFUO (545.1m-550kc)	"The Fear of the Lord Is the Beginning of Wisdom." Musicals.		
9:10	8:10	7:10	6:10
KOIL (305.9m-980kc)	Inner Circle candy night.		
9:15	8:15	7:15	6:15
WHAZ (379.5m-790kc)	Troy Junior symphony orchestra.		
9:30	8:30	7:30	6:30
WSM (282m-1060kc)	Vocal recital.		
9:35	8:35	7:35	6:35
WRVA (256m-1170kc)	Acca Temple Shrine band.		
9:40	8:40	7:40	6:40
KEAB (340.7m-870kc)	Cowbell boys, violin and guitar.		
9:45	8:45	7:45	6:45
KPRC (296.9m-1010kc)	Mabel Shearer, pianist.		
9:50	8:50	7:50	6:50
WBAP (475.9m-630kc)	"The Song Shop," a novelty request program.		
10	9	8	7
KOIL (305.9m-980kc)	"The Strange Transient Woman," play.		
10:05	9:05	8:05	7:05
KPRC (296.9m-1010kc)	El Tex temple band, D. O. K. K.		

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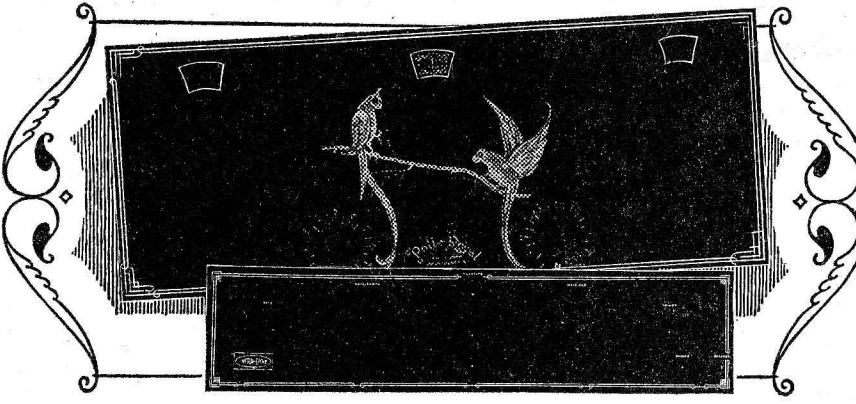
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Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, December 13.

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MONDAY, DECEMBER 13 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists headliner radio stations and their programs for Monday, December 13.

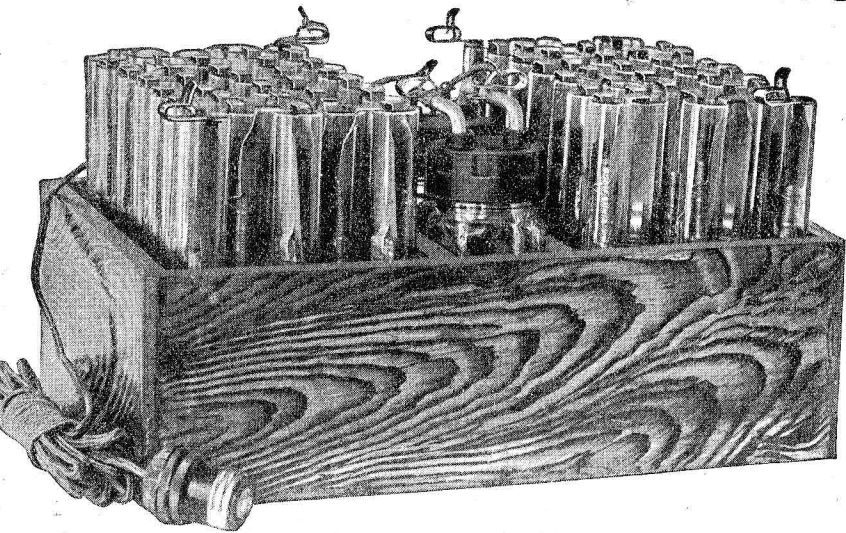
Regular Monday Features Eastern Time Stations

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists regular Monday feature radio stations and their programs.

Educational Features Monday

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists educational feature radio stations and their programs for Monday.

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WMCA New York, N. Y. (340.7m-880kc) 6:30 p. m. Ernie Golden and his Hotel McAlpin orchestra; 7:30, Grel-Meister's Hungarian orchestra; 8, Christian Science services; 9:15, Headliner; 12, McAlpin entertainers.

WNYC New York, N. Y. (526m-570kc) 6 p. m. Piano selections; 6:20, piano selections.

WOO Philadelphia, Pa. (508.2m-590kc) 11 a. m. Organ recital; 12:02 p. m. Tea Room orchestra; 4:45 organ recital; 7:30, Sylvana dance orchestra; 8, organ recital, Mary E. Vogt; 8:30, address, Rev. Forest E. Dager; 9, concert; 10:30, Sam Brown's dance orchestra.

WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Jacques Jacobs' Hotel Shelton ensemble; 6:45, Bill Wathey in sports; 7, Jacques Jacobs' Hotel Shelton ensemble; 9, Klein's Serenading Shoemakers; 11, Jascha Guerwich's dance orchestra.

WPG Atlantic City, N. J. (299.8m-1000kc) 7:15 p. m. Arthur Brook, organist; 7:30, Hotel Morton dinner music; 8:05, Hotel Shelburne dinner music; 8:30, studio program; 9, Hotel Traymore concert orchestra; 10, quartet; 10:30, President Hotel dance orchestra; 11, Silver Slipper Supper club dance orchestra.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. dinner music; 8, Emerson hour; 9, WEAF; 10, WEAF; 11-12, Loew's Palace theater.

WRVA Richmond, Va. (256.3m-1170kc) 8:15. Evening program; 9:15, Virginia Folk Lore orchestra; Dr. Douglas Freeman; 9:30, music; 10:30, Hotel Richmond Winter Garden orchestra.

WSAI Cincinnati, Ohio (325.9m-920kc) 10 p. m. WEAF.

WTAG Worcester, Mass. (545.1m-550kc) 7:45 p. m. program to be announced.

WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Guy Lombardo's Royal Canadians; 7, Allen Theater orchestra; 8, orchestra; 9, WEAF; 10, Willard concert orchestra; 11, Emerson Gill and Bamboo Garden orchestra.

WTIC Hartford, Conn. (475.9m-630kc) 6 p. m. Mother Goose; 6:30, Hotel Bond trio; 7, program; 11:05, Walter Dingley, organist.

WWJ Detroit, Mich. (352.7m-850kc) 6 p. m. Dinner concert; 8, musical program; 9, WEAF.

Central Time Stations

CKY Winnipeg, Can. (384.4m-780kc) 8:30-9 p. m. Studio program; 9-10, Stewart Warner concert; 10-11, Reliable battery hour; 11-12, Capitol theater revue.

KFAB Lincoln, Neb. (340.7m-880kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, musicale.

KFNE Shenandoah, Iowa (461.3m-650kc) 7 p. m. Seed concert; 11, old time music.

KMA Shenandoah, Iowa (461.3m-650kc) 9-11 p. m. Farnham trio.

KMOX St. Louis, Mo. (280.2m-1070kc) 6 p. m. Organ; 6:30, quartet; 7, quartet; 8, quartet; 9, soloists; 10:15, orchestra; 12-1, orchestra.

KOIL Council Bluffs, Iowa (305.9m-980kc) 7:03 p. m. Hotel Lassen program, Don Hill and his ukulele; 7:30, musicale; 8, program; 9, play; 10, Crosley hour; 11, Ambassadors.

KPRC Houston, Texas (299.8m-1000kc) 7:30 p. m. Housewives; 8:30, concert; studio concert.

KSO Clarinda, Iowa (405.2m-740kc) 7 p. m. old-time music.

KTHS Hot Springs National Park, Ark. (374.8m-800kc) 9-11:20 p. m. musicale.

KVOO Bristow, Okla. (374.8m-800kc) 6-7 p. m. Warner trio; 7-8, quartette; 8-9, Luckey's orchestra; 12, Earl Thurston, organist.

WBAP Fort Worth, Texas (475.9m-630kc) 7:30-8:30 p. m. Classical concert; 9:30-11, old time music; 11-12, midnight musicale.

WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 6:15 p. m. St. Paul hotel orchestra; 8, U. of Minn.; 9, WEAF; 10:10, dance program; 11:30, organ, Arthur Hays.

WCOA Pensacola, Fla. (252m-1190kc) 6:30 p. m. WCOA happiness period.

WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. School of the air; 8-9, WEAF; 9-10, WEAF; 11:45-1 Nighthawk frolic.

WEMC Berrien Springs, Mich. (315.6m-950kc) 8:15 p. m. Lighthouse Music Makers.

WFAA Dallas, Texas (475.9m-630kc) 6:30-7:30 orchestra; 8:30-9:30, Sears-Roebuck Agricultural Foundation program.

WGFB Evansville, Ind. (236m-1270kc) 8 p. m. musicale; 9, orchestra.

WHAD Milwaukee, Wis. (275.1m-1090kc) 6:10 p. m. organ recital, Arthur Richter; 8:30, headline; 9:15, old favorite hour, string trio; 9:45, popular program, Sally and her Gang.

WHB Kansas City, Mo. (365.6m-820kc) 7 p. m. Sweeney Radio orchestra.

WHO Des Moines, Iowa (526m-570kc) 7:30-8 p. m. music; 8-9, dance orchestra; 11-12, dance program.

WLS Chicago, Ill. (344.6m-870kc) 5:40 p. m. Al Melgard, organist; 6, supperbell program; 6:40, Maurice Sherman's College Inn orchestra.

WMC Memphis, Tenn. (499.7m-600kc) 8:30 p. m. Britling Melody Makers.

WOAW Omaha, Neb. (526m-570kc) 6 p. m. Joe Bauer and his Highway gardens orchestra; 6:50, classical; 9, Nash-Finch orchestra.

WOOD Grand Rapids, Mich. (241.8m-1240kc) 9 p. m. popular program; 9:30, band; 9:45, Wood Revelers; 10, Woods, Whozit; 10:10, piano recital; 10:20, specialty; 11, air mail hour; 12, woodpile.

WOS Jefferson City, Mo. (440.9m-680kc) 7:30 p. m. Missouri music appreciation contest; 8, program.

WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. Sears Roebuck program; 10:45, program.

WSKC Bay City, Mich. (260.7m-1150kc) 9-11 p. m. dance music.

WSM Nashville, Tenn. (282.8m-1060kc) 6:45 p. m. Andrew Jackson hotel orchestra; 8, concert; 10, studio program.

Mountain Time Stations

KOA Denver, Colo. (322.4m-930kc) 8 p. m. Scheurman's Colorado orchestra; 8:15, studio program.

KOB State College, N. M. (348.6m-860kc) 7:30 p. m. State College orchestra.

Pacific Time Stations

KFI Los Angeles, Calif. (467m-640kc) 7-8 p. m. Owen Fallon's Californians; 8-9, popular program; 9-10, program, Walter M. Murphy Motors Co.; KPO; 10-11, program by Meiklejohn Brothers.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 7:50, news; 9-10, program; 10-11, Warner Br. frolic.

KGO Oakland, Calif. (361.2m-830kc) 6-6:55 p. m. Stanislas Bem's Little symphony; 8-9, Gondoliers; 9, "Chats about New Books," Joseph Henry Jackson.

KGW Portland, Ore. (491.5m-610kc) 7:45-8 p. m. talk; 8-9, vaudeville; 10-12, dance music.

KLX Oakland, Calif. (508.2m-590kc) 8-9 p. m. Studio program, Pigly Wigly company; 9-10, Lake Merritt Ducks.

KMTR Hollywood, Calif. (370.2m-810kc) 7:30-8:30 p. m. program, Safeway Stores; 8:30-9:30, KMTR concert orchestra; 9:30-10, Y. M. C. A. program; 10-12, Palais de Danse.

KNX Hollywood, Calif. (335.9m-890kc) 7:30 p. m. playlet; 8, program; 9, feature; 10, Alexandria hotel orchestra; 11, frolic.

KPO San Francisco, Calif. (428.3m-700kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, music; 9-10, KFI and KPO broadcast; 10-11, Mandarin cafe orchestra.

KWSC Pullman, Wash. (348.6m-860kc) 7:30 p. m. Students concert.

Monday, silent night for: CFCA, KFDM, KFDY, KHJ, KLDS, KPSN, KYW, PWX, WBBM, WCBF, WCLL, WEBH, WEBJ, WENR, WFL, WGBF, WGBS, WGS, WGN, WGY, WHAS, WJLT, WJLB, WIP, WJAZ, WJJD, WLIB, WLS, WMAQ, WMBB, WOAI, WOC, WOK, WORD, WQJ, WSAI, WSW.

Eastern	Central	Mountain	Pacific
7:30 p. m.	6:30	5:30	4:30
KFUO (545.1m-550kc)	Bible story, "The Birth of John the Baptist."		
WEAF (491.5m-610kc)	Great moments in history.		
WTIC (475.9m-630kc)	Robert Young, baritone; Mildred Warner, contralto.		
		6	5
		8:30	5:30
KPRC (296.9m-1010kc)	Canadian Red Jackets of Kensington Hall. WGHP (270m-1110kc) Dodge Brothers concert band.		
WHAS (399.9m-750kc)	Zoeller's Melodists.		
		8	6
KOIL (305.9m-980kc)	Mrs. E. Callahan, soprano.		
KUOA (299.8m-1000kc)	Pupils of H. D. Tovey.		
WMAQ (447.5m-670kc)	Woman's symphony orchestra.		
WSM (282m-1060kc)	Fisk University student quartet.		
WGY (379.5m-790kc)	Cook's travelogue, "A Day in Berlin."		
		9:05	7:05
KTHS (374.8m-800kc)	Dance frolic.		
10:30	9:30	8:30	7:30
WEAF (491.5m-610kc)	Greenwich Village Inn orchestra.		
		10:15	8:15
KTHS (374.8m-800kc)	Mona Motor Oil twins.		
8:30	7:30	6:30	5:30
WEAF (491.5m-610kc)	Hofbrau orchestra.		

TUESDAY, DECEMBER 7 Headliners

Eastern	Central	Mountain	Pacific
6:10 p. m.	5:10	4:10	3:10
WLW (422.3m-710kc)	Santa Claus.		
6:25	5:25	4:25	3:25
WTIC (475.9m-630kc)	Ruth Patterson Stoddard, Mrs. Biago Reale, pianist.		
		5	4
WEAF (491.5m-610kc)	Pauline Haggard, piano-logues.		

TUESDAY, DECEMBER 14 Headliners

Eastern	Central	Mountain	Pacific
7:30 p. m.	6:30	5:30	4:30
KFUO (545.1m-550kc)	Bible story, "Gabriel's Visit to Mary."		
WEAF (491.5m-610kc)	Great moments in history.		
WFAA (475.9m-630kc)	Waikiki orchestra.		
		5:30	
WHAS (399.9m-750kc)	Studio concert.		

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Try entirely at my risk the wonderful improvement this inexpensive little device will make in the reception of your set. Improves results on both crystal and tube sets that use any kind of aerial except loop antenna. Clears up reception wonderfully, increases volume, and partially absorbs static. Money-Back Guarantee.

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COMPLETELY ASSEMBLED

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WORLD'S GREATEST RADIO! Wonderful Offer Direct from Factory. This marvelous 7 tube single dial control radio set will be shipped on 30 days free trial anywhere in the United States, just to prove that it is the greatest long distance receiver made.

F. L. Warnock, Greentown, Ind., writes: "I received the Metrodyne in good shape and am more than pleased with it. Got stations 2000 miles away."

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The Metrodyne Single Dial is a 7 tube Tuned Radio Frequency set, approved by America's leading radio engineers. Highest grade low loss parts, magnificent walnut cabinet. Exposed metal parts are finished in 24 karat gold. Genuine bakelite panel, artistically designed in gold. Easy to operate. Only one dial tunes in all Stations. Dial is electrically lighted. 1,000 to 8,000 miles on loud speaker. Powerful volume—clear, distinct reception. Shipped to your home for 30 days free trial.

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Wonderful 6 tube, long distance radio set. Approved by America's leading Radio Engineers. Easy to operate. Dials log easily. Tune in your favorite stations instantly on the same dial numbers every time. No guessing. 30 days free trial.

Mr. Howard of Chicago said, "With 5 Chicago Stations on the air I tuned in 17-out-of-town stations, including New York and San Francisco on loud speaker very loud and clear."

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Eastern	Central	Mountain	Pacific
9:00 p. m.	8:00	7:00	6:00
KUOA (299.8m-1000kc) University of Arkansas glee club.			
WHAS (399.8m-750kc) Eddie Rosson and his orchestra.			
WSM (282m-1060kc) Golden Echo quartet, spirituals.			
10	9	8	7
WBAP (475.9m-630kc) Ft. Worth club orchestra.			
WFAA (475.9m-630kc) Sacred harp singers.			
WGY (379.5m-790kc) Cook's travelogue, "A Day in Paris."			
10:30	9:30	8:30	7:30
WEAF (491.5m-610kc) Hofbrau orchestra.			
11	10	9	8
KOA (322.4m-930kc) Auction bridge instruction.			
11:30	10:30	9:30	8:30
WBAP (375.9m-630kc) Excel ensemble.			
WEAF (491.5m-610kc) Ben Bernie and his orchestra.			

Educational Features Tuesday

Eastern	Central	Mountain	Pacific
1:50 p. m.	12:50	11:50 a. m.	10:50
WMAQ (447.5m-670kc) "The Voice in Speech."			
5:35	4:35	3:35	2:35
WMAQ (447.5m-670kc) Book review.			
6	5	4	3
WGN (302.8) Spanish lesson.			
6:30	5:30	4:30	3:30
WNYC (526m-570kc) Elementary Italian lessons.			
7	6	5	4
KVOO (374.8m-800kc) University of Tulsa.			
WDAF (365.6m-820kc) School of the Air.			
WNC (526m-570kc) Advanced Italian lessons.			
WTIC (475.9m-630kc) Trinity college course.			
7:10	6:10	5:10	4:10
WEAF (491.5m-610kc) Columbia University.			
7:30	6:30	5:30	4:30
KSAC (340.7m-880kc) College of the Air.			
WBEI (348.6m-860kc) Dec. 7, R. B. Ogilby, president Trinity; Dec. 14, B. T. Marshall, Conn.			
WGY (379.5m-790kc) Dec. 7, "The Constellations and How to Find Them," Prof. Grover; Dec. 14, "The Moon, Our Nearest Neighbor."			
9:10	8:10	7:10	6:10
WMAQ (447.5m-670kc) University of Chicago.			
10	9	8	7
WMAQ (447.5m-670kc) Glimpses into foreign service.			
WJZ (454.3m-660kc) WGY (379.5m-790kc) Cook's tours, Dec. 7, "A Day in Berlin"; Dec. 14, "A Day in Paris."			
10:30	9:30	8:30	7:30
KFMX (336.9m-890kc) Dec. 7, "Medical Progress Since Pasteur"; Dec. 14, "Pathogenic Bacteria."			

Regular Tuesday Features Eastern Time Stations

KDKA Pittsburgh, Pa. (309.1m-970kc) 8 p. m. sacred song concert; 8:45, gens. from American literature; 9, musicale; 11:35, Grand theater.
PWX Havana, Cuba (399.8m-750kc) 8:30-11:30 p. m. program.
WAAM Newark, N. J. (263m-1140kc) 7:15 p. m. Gene and Jeff, Snappiness Twins; 9, Y. M. C. A. hour; 10, Richmond Ramblers; 11, Frank Dailey and his Meadowbrook.
WBAL Baltimore, Md. (246m-1220kc) 6:30-7:30 p. m. dinner orchestra; 7:30-8, quartet; 8-9, trio; 9-9:30, Jubilee singers; 9:30-10, violin and piano recital; Michael Weiner, violinist; LeRoy Evans, pianist; 10-11, Municipal band of Baltimore; 11-12, dance orchestra.
WBBR New York, N. Y. (416.4m-720kc) 8 p. m. program.

WBZ Springfield, Mass. (333.1m-900kc) 7:05 p. m. organ; 7:30, features; 10:03, orchestra.

WCAE Pittsburgh, Pa. (461.3m-550kc) 6 p. m. dinner concert; 7:45, talks; 8, WEAF; 8:30, feature; 9, WEAF; 10, bridge; 10:30, WEAF.

WCAU Philadelphia, Pa. (277.6m-1080kc) 7:30 p. m. Snellenburg instrumental trio; 8:15, Gurnee Buttermaker; 8:30, recital; 9, Montbard Follies; 9:30, Robert Fraser, blind gospel singer; 10, Prof. Doolittle; 10:05, Chapman Engart Syncoptors; 10:15, tenor; 10:30, Cathay dance orchestra.

WCWS Bridgeport, Conn. (285.5m-1050kc) 8 p. m. program; 11, Charles Coles and his orchestra.

WCX Detroit, Mich. (516.9m-580kc) 6-7 p. m. dinner program, Goldkette ensemble; 10, Red Apple club.

WDBO Winter Park, Fla. (239.9m-1250kc) Rollins conservatory trio; 9:20, bridge; 10:30, organ; 11:30, request program.

WEAF New York, N. Y. (491.5m-610kc) 6 p. m. dinner music; 7, headliner; 7:10, talk, Columbia University; 7:30, Fairyland; 8, The Vikings, WEEL, WFI, WCAE, WWJ, WGR, WTAM, WSAI, WJAZ, WTAG, WCO, WCSH, KSD; 8:30, Jolly Buckeye Bakers, WEAF, WTAG, WFI, WTAM, WWJ, WSAI, KSD, WCO; 9, Eveready hour, WEAF, WEEL, WFI, WTAG, WJAZ, WGR, WCAE, WTAM, WWJ, WSAI, WGN, WOC, WCO, KSD, WRC; 10, auction bridge instruction, WEAF, WEEL, WCSH, WTAG, WJAZ, WGR, WCAE, WTAM, WFI, WWJ, WSAI, WGN, WOC, WCO, KSD; 10:30, orchestra, WFI, WWJ, WCAE, WGR, WTAM, WCSH; 11:30, orchestra.

WEAO Columbus, Ohio (293.9m-1020kc) 7:45 p. m. musicale.

WEEL Boston, Mass. (348.6m-860kc) 7:30 p. m. inter-collegiate broadcast; 7:45, musicale; 8-10:30, WEAF.

WFI Philadelphia, Pa. (394.5m-760kc) 6:45, Adelpia dance orchestra; 8, WEAF; 8:30, WEAF; 9, WEAF; 10, Moment Musicale; 10:30, orchestra.

WGBS New York, N. Y. (315.6m-950kc) 7:20 p. m. Arrowhead Inn concert orchestra; 8:10, talk; 8:30, musicale; 11, Arrowhead Inn dance orchestra.

WGY Schenectady, N. Y. (379.5m-790kc) 6:30 p. m. dinner program, Ten Eyck hotel; 7:45, artist; 8, WJZ; 9, WJZ; 10, WJZ; 10:30-11:30, WMAK.

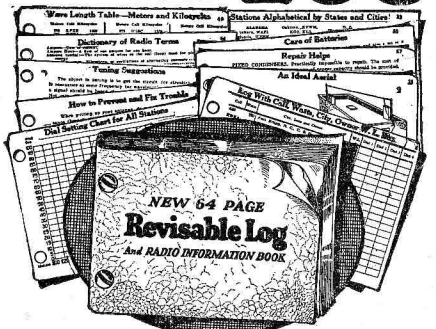
WJAX Jacksonville, Fla. (336.9m-890kc) 7-7:30 p. m. Carling hotel dinner music; 8-9, popular program; 9-10, Casa de Baile.

WJR Detroit, Mich. (516.9m-580kc) 7 p. m. Jean Goldkette's Petite symphony orchestra; soloists; 8, Board of Commerce, Mt. Clemens, Mich.; 8:30, Manuel Cigar girls.

WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Frank Dole; 7:15, Hotel Commodore concert orchestra; 8, Champton Spark Plug hour, WGY, WRC; 9, Pennsylvania Railroad hour, WGY; 10, Cook's Southern Hemisphere Cruise, WRC, WGY; 10:45, George Olsen's Pennsylvania Grill orchestra.

WKRC Cincinnati, Ohio (325.9m-920kc) 10 p. m. organ; 11, Al Kirschner, pianist; 11:30, dance program.

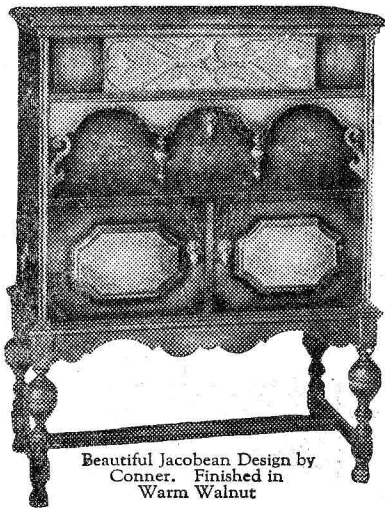
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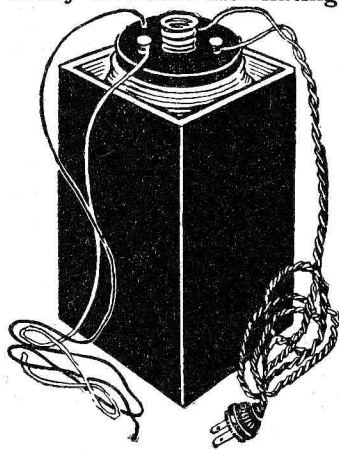
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WLW Cincinnati, Ohio (422.3m-710kc) 7:30 p. m. Castle Farm dance music; 9, Formica concert orchestra; 8:30, Gay Nineties; 9, Formica orchestra.

WMAK Buffalo, N. Y. (265.5m-1130kc) 6:15 p. m. dinner music; 7:30 evening program; 10:30, musicale, WGY, WHAM, WFBL; 12, Harold Rumsey, organist.

WMCA New York, N. Y. (340.7m-880kc) 7 p. m. Monte Carlo orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers.

WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. Sylvania dance orchestra.

WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Bill Wathley in sports; 6:30, Hotel Bretton Hall string quartet; 7:30, orchestra; 9:15, New Jersey Laundry Owners Association program; 11, Wadsworth's Carlton Terrace orchestra.

WPG Atlantic City, N. J. (299.8m-1000kc) 7:15 p. m. organ recital, Arthur Brook; 7:30, Hotel Morton dinner music; 8:05, Hotel Shelburne dinner music; 8:30, Hotel Chelsea concert; 9, Dual concert trio; 10:30, President hotel dance orchestra; 11, Silver Slipper Supper club dance orchestra.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. Raleigh hotel orchestra; 8, WJZ; 9, WEAF; 10, WJZ; 10:30-11:30, Meyer Davis' Le Paradis band.

WSAL Cincinnati, Ohio (325.9m-920kc) 7:15 p. m. dinner concert; 7:45, music; 8, WEAF.

WTAM Cleveland, Ohio (389.4m-770kc) 6:15 p. m. orchestra; 8-11, WEAF; 11, Austin Wylie's Vocalion Recording orchestra.

WTC Hartford, Conn. (473.9m-630kc) 6 p. m. Hotel Heublin trio; 6:30, musicale; 10:05, Club Palais Royal orchestra.

Central Time Stations

KFAB Lincoln, Neb. (340.7m-880kc) 5:30-6:30 p. m. musicale; 8:05-10:30, University of Nebraska.

KFDM Beaumont, Texas (315.6m-950kc) orchestra.

KFNH Shenandoah, Ia. (461.3m-650kc) 7 p. m. program.

KMA Shenandoah, Ia. (461.3m-650kc) 9-11 p. m. May's Mandolin Musicians.

KMOX St. Louis, Mo. (280.2m-1070kc) 6 p. m. dinner music; 7, program; 8, quartet; 9, 49th State Ethelogue; 9:30, soloists; 10:15, orchestra; 12-1, frolic.

Ambassadors; 8, program; 11, dance music.

KPRC Houston, Tex. (299.8m-1000kc) 7:30 p. m. concert; 9, bridge.

KTHS Hot Springs National Park, Ark. (374.8m-800kc) 9:10-10:45 p. m. musicale.

KVOO Bristow, Okla. (374.8m-800kc) 7-8 p. m. KVOO orchestra; 8-8:30, mixed quartet; 8:30-9, Dinah; 12, Rough and Ready.

KYW Chicago, Ill. (535.4m-560kc) 6:30 p. m. Joska DelBabary and his orchestra; Johnny Hamp and his orchestra; 7, Family hour; 8, American Farm Bureau federation; 9-10:30, classical concert.

WBAP Fort Worth, Tex. (475.9m-630kc) 7:30-8:30 p. m. musicale; 8-8:30, Fort Worth club orchestra; 9:30-11, Excel ensemble.

WBBM Chicago, Ill. (226m-1330kc) 8 p. m. Coon-Sanders Night Hawks; 8:15-11:15, staff artists, orchestra; 11:15, Supper club.

WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 7-9:30 p. m. WEAF; 9:30, musical comedy, Garrett's Chocolate Soldiers; 10:15, Izaak Walton League.

WCFL Chicago, Ill. (491.5m-610kc) 6 p. m. talks; 7, Brevoort trio; 8, Spinning Wheel hour; 10, Alamo orchestra; 11-12, entertainers.

WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. school of the air; 11:45-1, Nighthawk frolic.

WEBH Chicago, Ill. (370.2m-810kc) 7 p. m. classical hour; 9-11, Balaban and Katz Uptown theater musical hits.

WFA Dallas, Texas (475.9m-6:30kc) 6:30-7:30 p. m. musicale; 8:30-9:30, bridge game, selections; 11-12, orchestra.

WGBF Evansville, Ind. (236.1m-1270kc) 8 p. m. musical program; 9, classic hour.

WGN Chicago, Ill. (302.8m-990kc) 6:45-7 p. m. dinner concert, Drake concert ensemble; Blackstone string quintet; 8-9, WEAF; 9, Auction Bridge game; 9:30-10, WGN male quartet; 10, Sam n' Henry; 10:10, The Music Box; 10:20, musical program; 10:40-11, songs, Correll and Gosden.

WHAD Milwaukee, Wis. (275.1m-1090kc) 6:10 p. m. dinner hour, orchestra selections; 8:30, theater review.

WHAS Louisville, Ky. (399.8m-750kc) 7:30-9 p. m. concert.

WHB Kansas City, Mo. (365.6m-820kc) 7-7:45 p. m. organ concert; 8-10, program.

WHO Des Moines, Ia. (526m-570kc) 7:30-8:30 p. m. 14th Cavalry band; 8:30-9, Paul Stoye, pianist; 11-12, dance program.

WHT Chicago, Ill. (399.8m-750kc) 6 p. m. Al Carney, organist, Bob York, Julie Julius; 7:45 (399.8m-750kc), Bel Canto male quartet; 10, variety program, 12, Al and Pat.

WJJD Mooseheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-1, Palmer House Victorians.

WLIB Chicago, Ill. (302.8m-990kc) 7-7:10 p. m. dinner concert, Drake concert ensemble, Blackstone string quintet; 7:10, Old Fashioned Almanack and the Million Sing; 7:22, Adventures of Oney Fred Sweet; 7:30, orchestra; 7:45-8, Neighbor Daw in old time songs; 11-12, songs, Correll and Gosden; Ruth Farley, organist; Bobby Meeker's Drake hotel dance orchestra, waltz time; 12-1 a. m., Purple Grackle.

WLS Chicago, Ill. (344.8m-870kc) 6 p. m. May and June, Fleming Smith; 6:40, Maurie Sherman's College Inn orchestra; 6:55, Si Spencer; 7, May and June; 7:30-7:55, Don Malin; 10:30-12, organ; Maurie Sherman's College Inn orchestra; Jack Chapman's orchestra.

WMC Memphis, Tenn. (499.7m-600kc) 8:30 p. m. Hotel Gayoso orchestra; 11, midnight frolic.

WOAI San Antonio, Tex. (394.5m-760kc) 8:30-9:30 p. m. Gebhardt Mexican players.

WOAW Omaha, Neb. (526m-570kc) 6 p. m. Henry Thornton, organist; 6:30, Lillian Madsen, popular entertainer; 6:50, Auction bridge; 9, popular and old time music.

WOC Davenport, Iowa (483.6m-620kc) 7-7:30 p. m. WEAF; 7:30-8, musicale; 8-9, WEAF; 9-9:30, WEAF; 9:30-10:30, lecture.

WOOD Grand Rapids, Mich. (241.8m-1240kc) 8 p. m. studio program.

WOJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainbo Gardens orchestra; vocal selections; 10-2 a. m. Rainbo Gardens orchestra; frolic.

WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. headliner; 10:45, concert.

Mountain Time Stations
KOA Denver, Colo. (322.4m-930kc) 9 p. m. bridge.

Pacific Time Stations
KFI Los Angeles, Calif. (467m-642kc) 7-8 p. m. Howard's Quality serenaders; 8-9, grand opera program; 9-10, varied hour; 10-11, Azure Music club.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 8-9, news and studio program; 9-10 p. m. musicale; 10-11 p. m. Warner Brothers frolic.

KGO Oakland, Calif. (361.2m-830kc) 6-6:55 p. m. Stanislas Bem's Little symphony; 8-9, Pilgrims; 9, surprise broadcast.

KNX Hollywood, Calif. (336.9m-890kc) 8 p. m. program; 9, musicale; 10, frolic.

KPSN Pasadena, Calif. (315.6m-950kc) 8-9 p. m. Star-News concert hour; James H. Shearer, organist.

Tuesday, silent night for: CFCA, KFH, KFKX, KFUD, KKLX, KOB, KSWC, KTAB, KWWG, WAHG, WAMD, WBBR, WEMC, WGPC, WOS, WRVA, WSMB, WSUI, WTAM, WTIC.

Silent "B" Power with World Radio Storage "B" Battery

12 Cells 24 Volts

Lasts Indefinitely—Pays for Itself

Dependable. Quiet. "B" power, clear without "hum." Economy you have never before thought possible. Convenience. Outstanding performance. Recharged for almost nothing. Solid rubber case insures against leakage or acid. Extra heavy glass jars. Heavy rugged plates. Approved and listed as standard by Pop. Radio Laboratories, Pop. Sci. Inst. Standards, Radio News Lab., Lefax, Inc., and other Radio authorities.

Extra Offer: 4 Batteries in series (96 Volts) \$10.50.

SEND NO MONEY! Just state number of batteries wanted and we will ship same day order is received. Pay expressman after examining batteries, 5 per cent discount for cash with order. Send your order today—NOW!

WORLD BATTERY COMPANY
1219 So. Wabash Ave. Dept. 76 Chicago, Ill.
Makers of the Famous World Radio "A" Storage Battery
Prices: 6-volt, 200 Amp. \$10.50; 120 Amp. \$12.50; 140 Amp. \$18.25.
All equipped with Solid Rubber Case.

World STORAGE BATTERIES

Set your Radio Dial for the new 1000-watt World Storage Battery Station, WSB, Chicago. Always something interesting.

Write For Hampton Wright's Radio Economy Catalog

Quality Radio Equipment at Worthwhile Prices

Hundreds of items are listed that make fine radio sets and parts within the reach of every home. Our service is unusually attractive to dealers, set builders and users of parts. Satisfaction is assured on all Hampton Wright purchases. Specify catalog No. C-8.

Hampton Wright P. O. Box 181 Indianapolis, Ind.

30 Days Free Trial

Just Out-1927 Model

Yes Sir! You can put a new 1927 Westingale Radio in your home and use it to your heart's content on 30 Days' Trial. Listen to music, concerts, news, sports, market reports from stations all over the country. Compare it with old style 3 or 4 dial sets costing more, then if not convinced that Westingale gives you the greatest Radio satisfaction and the best value for your money, you don't have to keep it.

New ONE Dial Radio \$57.00 Retail Price

2-Dial, 5 tubes \$47.00

1-Dial, 5 tubes \$57.00

Where else can you get so much for the money on 30 days' trial? Why pay more? Why take chances? Why not have the NEWEST Radio when you can try them at our risk. Before you buy get our Free Catalog and 30 Day Trial Offer.

Westingale Electric Co.
Department 131
1751 Belmont Av., Chicago, Ill.

AGENTS WANTED Buy at COST

Your own Radio Free. Get demonstrator set on 30 Days' Trial—make \$100 a week easy. Full or spare time. Big discount on first set placed in each locality. Be first—write today for dealers' discount and full details.

Super "B" Battery Eliminator

Will Operate Any Set From Your Light Socket

Buy Direct Save 60%

PRICE **\$18.90** NET

F. O. B. NEW YORK OR MINNEAPOLIS

No Hum 50-60 CYCLE AC—OUTPUT 200 VOLTS **Power**

MAIL YOUR ORDER TODAY

and we will ship you a Super "B" eliminator, guaranteed to operate any set without hum and give efficient service and loud, clear reception. Our research of over 3 years makes this possible.

GUARANTEE EVERY Super "B" is guaranteed to give constant service. Give it five days' trial and be convinced that it is the best "B" power supply to had. If you are not satisfied after the trial period return it at our expense and your money will be refunded. Mail your order today, enclosing full amount, \$18.90 or half this amount and pay the balance on delivery.

SWEETONE RADIO CO.
3130 BUHRE AVE. NEW YORK CITY, N. Y.

Out of CHAOS in the AIR

Make Music in your EAR

No more scrambled reception! No more fuming while you try to tune in one good program from the swarm of songs, tunes, stories, speeches and reports that dozens of stations are throwing on the air at the same time. Get the program you want, strong and clear, with

IMPROVED Effarsee ANTENNAE

REG. U. S. TRADE MARK PATENT PENDING

Can be hung anywhere. Don't risk your life erecting an outside aerial on already crowded roofs, when you can hang an Effarsee Antennae in your attic, cellar, spare-room or a closet—under carpets or behind pictures, drapes or furniture, in less time than it takes to tell. Special parchment covering keeps wires properly spaced, and insulated from moisture and electrical losses. Fixed condensers at each end provide the sharp tuning of a short aerial and the range and volume of a long one. Gives improved selectivity and tone and reduces static.

SEND NO MONEY

Just mail the coupon. We will send antennae complete with full instructions. Pay the postman \$4.00 on delivery. A Binghamton, N. Y., user writes, "Have never heard as good reception as is given on your Antennae." A Detroit user says, "Got Denver, San Antonio and others with locals going full blast." We guarantee you complete satisfaction, too, or your money will be refunded. You take no risk. Send the coupon now.

FISHWICK RADIO CO., Dept. 52, 133 West Central Parkway, Cincinnati, Ohio

Please send me Effarsee Antennae complete. I will pay postman \$4.00, plus a few cents postage, on delivery, with the understanding that if not satisfied I may return the antennae within ten days and my money will be refunded.

Name.....
Address.....
Town..... State.....

MONEY if not BACK! Delighted

FISHWICK RADIO CO.
Dept. 52, 133 West Central Parkway, Cincinnati, Ohio

WORLD'S FINEST LOUD SPEAKER

Genuine "ENSCO" 3 FOOT CONE KIT ONLY \$10

MAKE YOUR OWN THREE FOOT CONE SPEAKER IN LESS THAN AN HOUR.

Complete parts furnished in kit form. We guarantee this speaker the equal of any manufactured cone speaker at any price.

With this THREE FOOT CONE SPEAKER you hear all the tones. It brings out the true depth and beauty of orchestral and instrumental music. Can be operated softly or full volume for dancing without trace of distortion.

Kit includes famous "ENSCO" cone unit, the only direct-drive, distortionless unit for large cones; Alhambra Fonotex for big cone, with brass apex; two Septa Prints showing cabinet or simple stand construction. All necessary instructions.

Buy this wonderful speaker under our absolute guarantee. Your money back if you are not convinced that it is the finest reproducing medium obtainable at any price. It works on any set, with ordinary tubes or with power output.

Send No Money! Write your name plainly in space indicated below, and complete kit will be forwarded to you. Just pay postman \$10.00 upon delivery.

Name.....
Address.....

Engineers' Service Co.
25 Church St. (Desk D) New York City.

BUILDING REGENATROL

(Continued from page 13)

dition, electrically speaking. If we use a single rheostat or a ballast such as an Amperite to control all the tubes, or even a few tubes, the result will be that the defective tube will require more than its fellows with which it is connected in parallel under a single control and will necessitate a stepping up of filament voltage to take care of its requirements.

Better Tube Control

This, of course, will result in operation of the good tubes at more than their rated voltage, thereby lessening the effective life of the other tubes. Where separate Amperites are used with each tube this is not the case, since the requirements of each tube are taken care of automatically.

If an Amperite is connected into each filament circuit, the danger of operating the filaments at more than their rated voltages is eliminated. You will find, however, that in many cases better operation will be had if the filaments of the radio frequency and detector tubes are operated at less than their rated voltage. The use of rheostat R1 permits the adjustment of the radio frequency and detector tube filament voltage to the best

point of operation below their rated voltage. The Amperites in the filament leads prevent overloading of the tubes at any time, since they will be operated at rated voltage, even though the rheostat is turned on full.

Provisions for Voltmeter

In the receiver proper, tip jacks are provided for a voltmeter across the filament

of the second radio frequency tube. This voltmeter serves as an indicator of the best adjustment of the rheostat for most efficient operation of the radio frequency and detector tubes.

A Jewell type 135C voltmeter of the (Continued on page 38)

Again
ELECTRAD
 Parts are Mentioned
 Use
ELECTRAD
 Certified
 Mica Condensers
ELECTRAD

For Perfect Filament Control
3 AMPERITES
 are specified in the
BRUNO REGENATROL Receiver
 described in this issue.
Radiall Company
 Dept. R.D.-7, 50 Franklin Street, New York City
 At All Dealers
AMPERITE
 The "SELF-ADJUSTING" Rheostat

Build This New
"Bruno"
Regenatrol
Receiver

As Described in This Issue by
Joseph Calcaterra

Complete Kit of Parts \$60.00
 Ready to Wire With \$60.00
 Instructions

All regenerative UNITUNE kits are licensed under the Armstrong patent No. 1,113,149 and are assembled by the Clapp-Eastham Company exclusively for The Bruno Radio Corp.

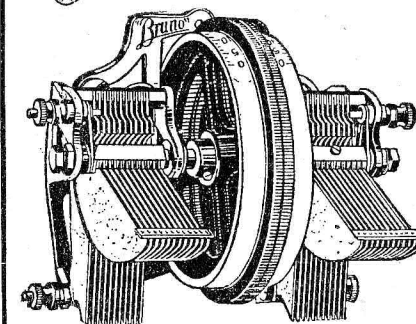
Other Popular Kits Ready for Shipment. Every Kit Includes Full Instruction Sheets for Wiring.

New Improved
 Diamond of the Air Kit
 5 Tubes
 Complete Parts, \$37.50

Radio World's Popular
 Bernard 6-Tube Kit
 Complete Parts, \$40.00

4-Tube Improved
 Diamond of the Air Kit
 Complete Parts, \$30.00

Bruno
 Simplifies and
 Beautifies
 Any Set



UNITUNE MODEL 2C—This basic instrument consists of two bakelite shaft Bruno straight line frequency condensers (.0005 mfd. unless otherwise specified), mounted on an aluminum frame; a bronze panel plate and two drums, with scale. As shown above. Price, \$11.00

UNITUNE 2CB—Used in the BERNARD and other popular circuits consists of two BRUNO .00035 mfd. straightline frequency condensers. Price, \$11.00
 Frame, Panel-plate and Drums, \$3.50

UNITUNE MODEL CC—Consists of one .0005 mfd. bakelite shaft, straight line frequency condenser and a three circuit tuner on one frame, with regular Bruno drum control. Price, \$12.00

UNITUNE MODEL RF—Consists of the basic condenser frame, Model 2C, and two Bruno LOW LOSS RF transformers. This combination provides two radio frequency stages and covers a wavelength of 200 to 550 meters. Price completely assembled, \$17.00

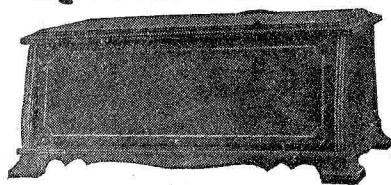
UNITUNE MODEL CF—Consists of 2C unit with one fixed RF coupler and special three winding coil, with fixed primary and tickler, for use in capacity feedback regenerative circuits. Price, \$19.00

UNITUNE MODEL TK—This model is similar to Model RF except that the right hand condenser holds a standard BRUNO THREE-CIRCUIT TUNER. It is adaptable to a variety of circuits. Used in the Bruno Regenatrol Receiver. Price complete, assembled, \$20.00

UNITUNE MODEL BD—Consists of two condensers and two specially wound coils designed for use only in the BROWNING-DRAKE circuit. Price, \$21.00

We Carry Complete Stock of
 Standard Merchandise
 and All Popular Kits
 SEND IN FOR BOOKLET
B. C. L.
RADIO SERVICE CO.
 INCORPORATED
 221-D Fulton St., N. Y. C.

Special Cabinet



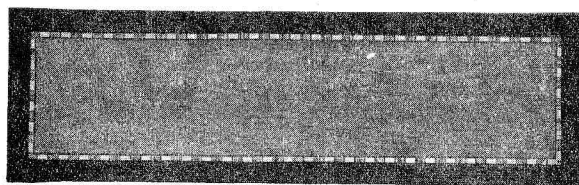
7x24 Panel, 10" deep

WALNUT ONLY \$14.50
 MOUNTING BOARD, splined and varnished. For above cabinet. 80c
 Also full line of cabinets for Infradyne LC-27 and other circuits. Write for 1927 folder.

Corbett Cabinet Mfg., Co.
 St. Mary's, Pa.

LIGNOLE Chosen by Joseph Calcaterra for the Bruno Regenatrol Receiver

After thoroughly canvassing the field for a front panel that combined the highest electrical efficiency with beauty unsurpassed, Joseph Calcaterra selected inlaid walnut LIGNOLE for the Bruno Regenatrol Receiver. The most discriminating radio engineers and designers regularly choose LIGNOLE, the new specially treated wood that meets all panel requirements.



LIGNOLE CORPORATION OF AMERICA
 508 South Dearborn Street
 CHICAGO, ILL.

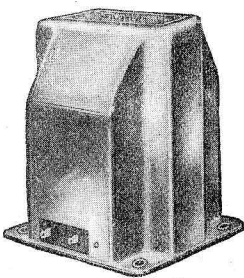
—as usual—

CARTER
 Rheostats—Switches
 Jacks
 are specified in
Bruno - Regenatrol
 and other leading circuits, because of preferred: Design and Quality

In Canada—Carter Radio Co., Limited, Toronto



Success with Bruno Regenatrol demands use of the specified Samson Transformers and Chokes



Success with Bruno Regenatrol demands use of the specified Samson Transformers and Chokes



The pleasure you get from your set largely results from its tone quality. This depends principally on two things—keeping all radio frequency currents in their own circuits, a job only Samson R.F. Chokes can perform because of their patented helical winding, and amplifying impartially all notes. Only the Patented Helical Winding of Samson Audio Frequency Transformers equally amplifies all notes through nullification of distributed capacitance effects.

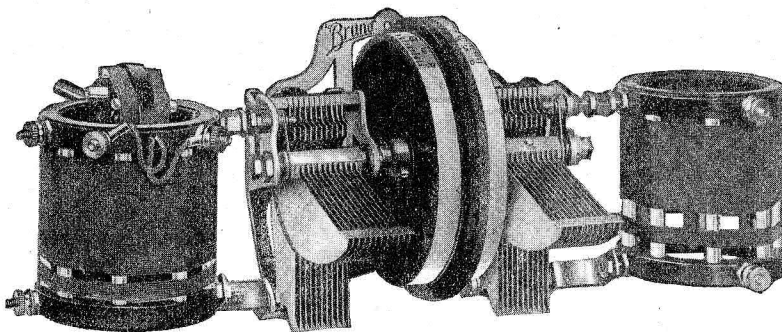
Price, Choke No. 85, \$1.50
 Transformers, all ratios, \$5.00

Samson Electric Co.
 Main Office MEMBER Sales offices in
 Canton, Mass. RMA all large cities

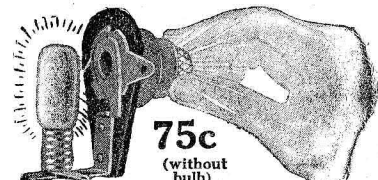


The **SIMPLICITY** of tuning
 The **EFFICIENCY** of Bakelite Shaft Condensers and Quartzite Coils
 And the **BEAUTY** of the Bronze Plate
 makes the
BRUNO UNITUNES
 the ideal tuning device for those wanting the best

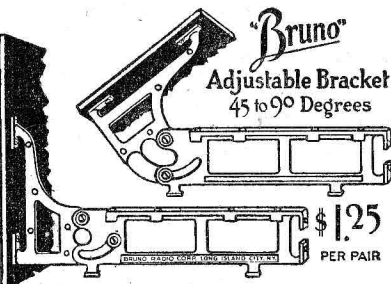
The BRUNO UNITUNE consists of an aluminum frame upon which are mounted two bakelite shaft S.L.F. condensers, insulated from each other. Each condenser may be tuned simultaneously or independently.
 The two Quartzite Coils are already wired into the circuit simplifying construction to the extreme.
 Only two screws are required to mount a UNITUNE on a panel.



The UNITUNE model TK, above illustrated, is suitable for all circuits using one stage of tuned R.F. and regenerative detector.
 This model is licensed under the Armstrong regenerative patent, 1,113,149. Completely assembled and including bronze plate—it lists at \$20.00.
 "There is a UNITUNE for every circuit." Please write for booklet.



75c
 (without bulb)
BRUNO LIGHT SWITCH provides a visual indication when the batteries are turned on.
 When mounted under the UNITUNE drum, it reflects sufficient light on the scale to make it visible in the dark.
TURN IT—IT LIGHTS! PUSH IT—IT'S OFF!



Adjustable Bracket
 45 to 90 Degrees
 \$1.25 PER PAIR

BRUNO RADIO CORP., Long Island City, N. Y.

(Continued from page 37)
mantel clock type, which can be mounted on the top of the cabinet with flexible leads which can be inserted in the tip jacks, serves admirably for this purpose. If you do not care to go to the expense of buying the voltmeter when building the set, you may provide the tip jacks and buy the voltmeter later.

A Bruno combination filament switch, S1, and pilot lamp L is used to make and break the filament circuit. In the constructional article it will be explained how to place the lamp so that it also lights up the dial.

The use of UX type sockets, Amperites, and separate B and C battery leads, permits the use of standard or power tubes of the storage or dry cell type as desired.

Suggested Use of Fixed Condensers
A series fixed condenser, C1, of .0005 mfd. capacity is used in the ground lead

of the receiver to sharpen tuning. If a B battery eliminator is used in place of batteries, it is advisable to substitute a 1 mfd. bypass condenser in position C1 to eliminate the possibility of danger from the use of a grounded eliminator.

You will notice that a .0005 mfd. fixed condenser is used across the primary of the first stage audio frequency transformer and a .006 mfd. condenser is used across the loud speaker jack. Bypass condensers of 1 mfd. each are used as shown at C2, C6 and C7. While the use of these condensers is not absolutely necessary to the operation of the set, you will find that their use greatly improves reception and eliminates the distortion often found in receivers which are built down to a price rather than up to a standard. You can economize somewhat by eliminating some Amperites and fixed condensers, but the resultant loss in efficiency and tone quality will hardly make the small saving worth while. It is best to build the Regenatrol exactly as directed, rather than to change parts.

Detailed instructions for building the receiver will be given in the next issue of Radio Digest. While waiting for the next installment you can prepare by buying the parts specified in the list given herewith.

NEW INFRADYNE KIT

ALL GENUINE PARTS IN STOCK NOW!
WHOLESALE CATALOG
FREE
Listing thousands of new radio parts, kits, furniture, accessories and complete radio sets, at prices that save you money. Write for your copy now, it's free. Dept. 6.
THE HARCO CO., 1255 S. Wabash Ave., Chicago, Ill.

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Matchless bargains in radios and accessories. Full line of Bremer Tully, Balkite, All American G.E. Tungar, Thorola, Majestic, Utah, R. C. A. Tubes, nationally advertised parts, batteries, chargers, etc. Big opportunity for live dealer to double sales quick. Tell us about your business as we sell wholesale only. Postcard or letter brings catalog and dealer's proposition. Exclusive territories open. Act—NOW!
NEW ENGLAND MILLS COMPANY
Distributors of Nationally Advertised Radio Lines
Dept. 91C 851-55 Washington Blvd. Chicago,

The Write Gift for Children
Individual Names **1.00** post paid
PENCIL SETS De Luxe Set
Finest genuine sheepskin leather case with coin pocket, richly embossed. Any name engraved in 18 kt. gold. Contains pencils and penholder in assorted colors, point protector, ruler, sharpener. Absolutely supreme in its class.
Send Check, Money Order or U.S. Postage.
U. S. PENCIL CO., Inc.
467 Broadway Dept. R. D. New York

RADIO BOOK FREE
Tells how you can make big money in world's newest and greatest field. Presents lifetime opportunity in Radio. Right now we want live agents and dealers in every locality. \$60 to \$100 a week easy.
40% to 60% Profit
FREE Simply send name for this big illustrated book explaining liberal profit proposition and how to get latest radio goods at wholesale. Also prices on parts, sets and accessories and amazing special offers—all free. Write today.
STANDARD RADIO CO.
1488 Walnut St., Kansas City, Mo.

Famous MARWOOD Now Sold on Easy Terms
1 Dial 6 Tube \$43.35
Get Agents Prices—Save 50%
Great news! Now own a famous Marwood at the world's lowest price for real quality—and pay on easy terms. The only Radio sold direct on easy terms—proof that the Marwood MUST be a wonder. A year ahead with 4 big exclusive improvements—Super-Selectivity, Power-Tube Volume, New Easy-Tuning Principle, New Tone Quality. Save half—and get a Radio that can't be beat at ANY price. Panel etched in gold.
30 Days Free Trial
We trust you. Prove the Marwood the best buy in America. Don't buy a Radio till you see our Easy Terms, 30 Days Free Trial. Agent's confidential Low Prices, Free Radio plan, new Catalog, Agents' Write quick for territory.
MARWOOD RADIO CORPORATION
1747-A-48 Morse Ave., Chicago, Ill.

APPLAUSE CARDS FREE

Your Name and Address on Each Card
Thank-You for Your Program
heard About 30 E.M. on Nov. 1, 1925
Remarks: Program Clear Enjoyed the quartette We would appreciate hearing Roses of Picardy or Humoresque
CHESTER A. WHEELER
640 E. 47th St. No. Portland, Ore.
Stations gladly put on numbers you request. Stations and entertainers appreciate applause cards. We print special individual cards that get immediate ATTENTION. Applaud your favorites. Quality cards and printing. Special radio design. Post card backs. All The Rage. You and your children will get many hours of pleasure. Special introductory price: \$2 for 100 cards and we include 8 coupons each good for \$1 payment on other cards. Let your friends have these coupons at 25c each and you have YOUR cards absolutely FREE or at 50c per coupon you have \$2 extra.
SEND NO MONEY Just pay postman after you get cards and 5 coupons. Post paid if \$2 with order. Money Refunded if not delighted. Write today—NOW while offer lasts. A post card will bring these individual cards.
Radio Printers, Dept. 8419C, Marengo, Ill.

Genuine RAYTHEON "B" Battery Eliminator
\$50 Value—Our Price Only \$22.95



Capacity 50 Milliamps, 200 Volts Adequate for 1 to 15 Tubes

Positively the Greatest Value in "B" Eliminators

While the regular market price of Raytheon is around \$50.00, our factory-to-you price is only \$22.95. At this price, everyone can afford to own a Raytheon and forever discard his B batteries. A "B" eliminator enables you to draw your B current from the light socket. There is more uniform and constant power, no more battery replacements, more volume, improved tone quality, positive regulation of voltage, and absolutely NO HUM. By stopping battery replacement, Raytheon pays for itself.

CANNOT DETERIORATE WITH USE—NOTHING TO WEAR OUT!

Contains no materials or parts which are subject to wear. Always delivers the same, unvarying output of current. Employs the use of the famous Raytheon tube to rectify the current. There is no filament to burn out, sag, or wear, therefore lasts forever. Has full wave rectifications, exceptionally efficient. Uses but a few cents worth of current a week. No liquids or chemicals. This is a genuine high capacity eliminator and a quality product throughout.

Delivers Smooth, Steady "B" Current—No Hum

The materials used in making the Raytheon are the finest unit parts, laboratory matched; the case with its rich, genuine Brewster Green Duco finish; the metal fittings of polished nickel; the genuine RAYTHEON tube. Comes completely wired and ready to use from 60-cycle, 110-volt alternating current. The filtering system with its extra capacity, 1000-volt test condensers, and massive, oversize 40-Henry chokes smooth out every ripple and hum from the alternating current. There is nothing to deteriorate, wear out, or replace; Raytheon is good for a lifetime of service, and fully guaranteed. Capacity, 50 milliamps up to 200 volts for 15-tube sets or less.

Send money order for \$22.95 direct to factory NOW, and shipment will be made at once, or order C. O. D., if you wish, and pay charges on delivery. Write today—NOW—while this offer is in force.

Belmont Scientific Laboratories
1301 Wilson Ave., Dept. RD, Chicago Ill.

Belmont Scientific Laboratories, 1301 Wilson Ave., Dept. RD. Chicago, Ill.

Ship at once, post paid, \$22.95 (check enclosed).

Ship at once, C. O. D., for \$22.95, plus slight express charges.

Name.....

Address.....

City.....State.....

CLASSIFIED ADVERTISEMENTS

DOGS
Beautiful registered bull pups, \$15. Bull-dogs, 501 Rockwood, Dallas, Texas.

HUNTERS
Ever Go Rabbit Hunting? My New Invention, a mechanical ferret gets the rabbits out of the holes better than live ferrets. Five days' trial. Money-back guarantee. Write for circulars. Al. Grabow, Byron, Ill.

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Radio Record Book: Logs 350 Stations, Postpaid 25 cents. Satisfaction guaranteed. Roy Stacy, Publisher, Rockford, Ill.

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PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

RADIO
NEW RADIO WITHOUT BATTERIES.
Why waste several hundred dollars when you can get all the radio you want on a Lambert costing only \$2.95 postpaid. Big stations 600 miles away come in loud. Needs no tubes or batteries. 250,000 homes already have them. Order direct from this adv. Crystal Radio Company, Wichita, Kan.

"SOCK-ANTENNA" AERIAL WIZARD
inductive aerial works from light socket, solves aerial problem, separation of stations, reduces static and interference to minimum, increases volume, adds clarity, equals outside aerial. Sold, satisfaction guaranteed, price \$5.00. Write for bulletin "T-R-S SOCK-ANTENNA." Tidmarsh's Radio Supply, Elwood, Indiana.

Headphones and Loud speakers repaired. Sam T. Sherrill, Smithville, Texas.

Will sell nearly new B-T Nameless, with voltmeter for \$50. Cost \$100. Wm. H. Vordenfeld, Shumway, Illinois.

For Sale—7-tube super-het in beautiful walnut cabinet. Reasonable. John Wisner, 105 S. Kostner Ave., Chicago.

Will sell my factory-built 7-tube super-het cheap. Beautiful walnut cabinet. Same circuit as Ryan's Simplest Possible. 700 S. Taylor Ave., Oak Park, Ill.

FOR SALE—Six-tube Het-Duo-Gen receiver without cabinet for \$25. Parts alone cost over \$75. Henry Martin, 3136 Christiana Ave., Chicago.

Prove your reception by the most practical and convenient method: Proof of Reception Cards. Contains spaces for complete reception record, dial settings and signature of announcer. Handy size, 3x5 inches. Send 25 cents for sample package. Radio, 2617 Hollywood Ave., Chicago.

SALESMEN WANTED

Make \$100 Weekly in spare time. Sell what the public wants—long distance radio receiving sets. Two sales weekly pays \$100 profit. No big investment, no canvassing. Sharpe of Colorado made \$955 in one month. Representatives wanted at once. This plan is sweeping the country—write today before your county is gone. Ozarka, Inc., 431 N. LaSalle Av., C, Chicago.

WANTED

Back copy of Radio Digest, Volume 1, Number 4, 1922. Wanted to complete file in Library of Congress at Washington. Will give selection of six photogravures for this copy. Editor, Radio Digest, 510 North Dearborn St., Chicago.

GUARANTEED RADIO TUBES
By Return Mail!
Direct from factory saving wholesale and retail dealers' profits. 201-A type with UX bakelite bases.
\$1
TRELCO SALES Prepaid
1021 Moseley St., Owensboro, Ky.

RADIO TOWERS
FOR SALE at your own price
These towers are 106 feet high and have been in use a little more than one year, having been kept painted and are in good condition; they will be sold as they stand in Brownsville, Texas. Make an offer.
KWWG Brownsville, Texas

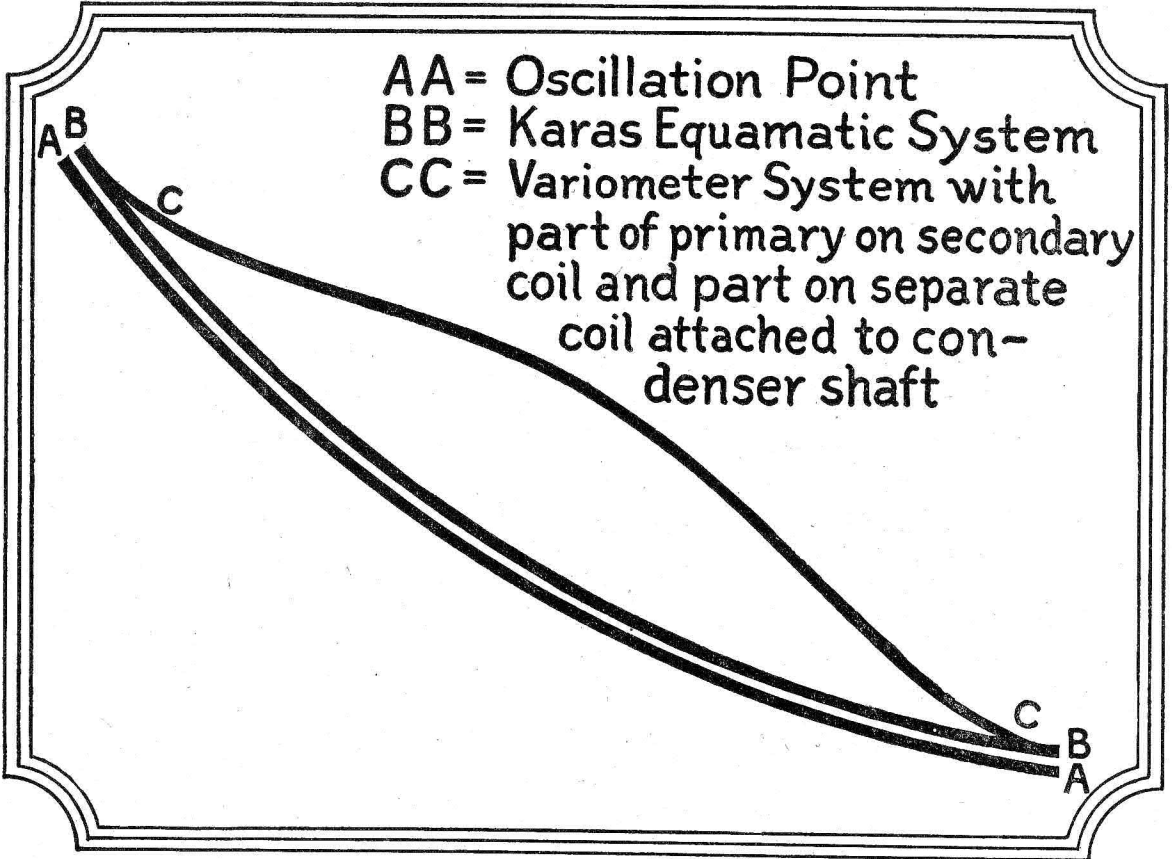
American Radio Now—50% DISCOUNT ON RADIO!
BIG NEW 1927 CATALOG—FREE
Dealers, Agents, Set Builders—get our big 1927 Catalog—225 nationally advertised lines. Lowest prices in America! Largest, most complete stock. Radio's latest developments. It's FREE—send for your copy now.
AMERICAN AUTO & RADIO MFG. CO., Inc.
1443-A McGee Street, Kansas City, Mo.

Tune by Wave Lengths
BRING IN STATIONS YOU NEVER HAD BEFORE
RADEX Tuning Charts
Show wave length you are tuning to. Tell where to set dials for any station. Identify programs without announcement.
BROADCASTING MAP AND DISTANCES FOR ANY SET AND ANY DIAL
Winter Edition Now Ready
Send 25c, Coin or Stamps
RADEX, P. O. Box 143-P, Cleveland, O.

Radio Reception Improved
10% to 50% \$1.00 for ONLY \$1.00
Send for it TODAY
MONEY BACK GUARANTEE
Easily installed in place of your present ground. No Radio Set complete without it. Indorsed by Radio listeners everywhere.
YOU TAKE NO RISK—ACT NOW
PEEDIN RUBBER & RADIO CO.
SHERIDAN, WYOMING

Yale GROUND HOG
POWER AND DISTANCE
DOUBLES
Marvelous newly-invented ground gives 100% improved reception. Doubles power and distance. Stops leakage. Reduces static. Stops jangling even in midsummer. Results never before equalled, users say. Satisfaction guaranteed.
Proven absolutely essential to clear, powerful distance reception. Draws and holds moisture indefinitely. Highly sensitive to radio energy.
SEND NO MONEY—To introduce, we offer to those who act at once, regular \$5.00 size for only \$2.00. Send name today and pay \$2.00 plus 17c postage on delivery. Or send only \$2.00 with order and save postage.
FREE—Full description of Ground Hog and amazing special low priced battery offer on request—write today.
Yale Specialty Supply Co.
123 W. 5th St., Kansas City, Mo.

Only KARAS has been able to solve the vital problem of automatic tuning at every dial setting through the marvelously efficient KARAS Equamatic 5-Tube Sensation



[Equamatic System Licensed Under King Patents Pending]

Essential Parts of the Karas Equamatic Sensation

KARAS EQUAMATIC INDUCTANCE COILS are packed three in a carton, and come to you with complete manual of simple diagrams and instructions, all necessary nuts, screws and binding posts, ready for mounting in your receiver. Price, set of three coils, \$12.00.

KARAS SPECIAL 17 PLATE ORTHOMETRIC CONDENSERS, three of which are used in the Equamatic Receiver, have special extended shafts upon which to mount the primary coils of the Inductances. Price, each, \$7.00.

KARAS HARMONIK AUDIO FREQUENCY AMPLIFYING TRANSFORMERS are essential to the tone quality success of the Equamatic Receiver. Two of these are used for the two stages of audio frequency amplification. Price, each, \$7.00.

KARAS EQUAMATIC RETARD COILS, two of which are used, were designed especially for the Equamatic System. Price, each, \$1.00.

KARAS EQUAMATIC SUB-PANEL BRACKETS. To insure the necessary exact positions of primary and secondary coils these brackets are essential. Price, set of three, 70c.

KARAS MICROMETRIC DIAL. It has a 63 to 1 vernier and tunes to 1/1000 of an inch. Micrometrics are made of Bakelite. They have large, comfortable knobs, gold inlay markings of unusual precision, and may be attached to your present set without drilling any additional holes in panel. To really know sharp tuning you must use Karas Micrometrics. Order them today from your dealer, or if he cannot supply you, order direct from us. Price, each, \$3.50.

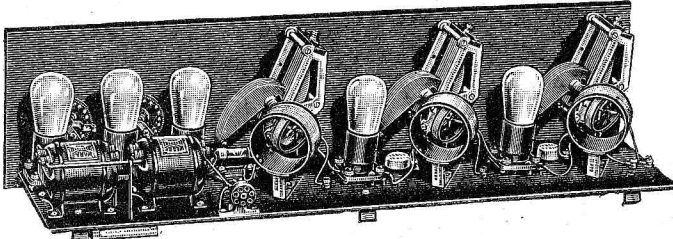


Karas Micrometric Dial

THE Karas Equamatic 5-Tube Sensation—the talk of all of the great national radio exhibitions—the most discussed set in the pages of leading radio publications—is the only receiver which accomplishes automatic tuning at every wave length setting of the dials. Only Karas has been able to solve the problem in a simple, practical, automatic manner.

What Does the Equamatic Receiver Accomplish?

The Equamatic System provides a CONTINUOUS MAXIMUM and an absolutely EQUAL TRANSFER OF ENERGY between primary and secondary inductances AT ALL WAVE LENGTHS. It utilizes a coupling system that is absolutely unique in the entire field of radio engineering. Because of this feature the Karas Equamatic actually delivers from five tubes results that heretofore have only been possible with six or seven tubes. Its volume is tremendous. Its selectivity is sensational. Its clear, pure, rich, sonorous tones are a revelation. And all because the Equamatic System, utilizing Karas precision-built parts, has been brought to a peak of operating efficiency that will not be found in any other receiver regardless of price, type of circuit or number of tubes.



The Karas Equamatic 5-Tube Sensation

What Is Meant by High Efficiency in the Equamatic?

Other circuits have been called highly efficient in the past, and even today remarkable claims are made for the operating efficiency of certain receivers. What constitutes this much to be desired peak point in receiver operation? Radio engineers are agreed that the radio frequency tubes in a tuned radio frequency receiver are at highest efficiency when just below their oscillation point. The problem in such receivers always has been to keep the r. f. tubes at this point by continuously maintaining an equal transfer of energy between primary and secondary coils. Until the Equamatic System was invented no one had ever done this, although there had been several makeshift attempts to reach the desired goal.

The Story Told in Graphic Form

Study the curve chart reproduced above. It is a graphic picture of the oscillation curve of a radio frequency tube, designated by the line AA. Naturally you will find the highest operating efficiency of radio frequency tubes indicated by a line, BB, exactly parallel to it, and directly above the line AA. Tests have shown that this line, BB, also indicates the exact efficiency of the radio frequency tubes in the Karas Equamatic Sensation—just below the oscillation point. WHERE EVERY TUBE IS MOST EFFICIENT. And the Karas Equamatic maintains this peak efficiency at every wave length setting of the dials—not at certain points in the broadcast waveband, BUT AT EVERY DIAL SETTING BETWEEN 200 and 600 meters.

Other Sets Vastly Less Efficient

To give you a graphic idea of how much less efficient are other types of receivers we have plotted the curve of a typical set using the variometer system. In these sets part of the primary coil is carried on the secondary, where it cannot possibly be varied, and part of it is carried on a separate coil mounted on the condenser shaft. The curve of operating efficiency of the radio frequency tubes in such sets is shown by the variable curved line CC. Note how far from peak efficiency such sets must be except at one or two points. The variometer type of design cannot possibly offer the efficiency of the Karas Equamatic System because it does not provide a continuously equal and constantly maintained transfer of energy between primary and secondary inductances at every wave length setting of the dials—a thing absolutely essential if highest efficiency is to be secured.

The Problem Solved Only by the Equamatic

In the Equamatic System the primary coils are entirely separate from the secondaries. They are attached to the shafts of the condensers, in a way to make them adjustable in their relation both to the condenser shafts and to the secondary coils. The secondaries are adjustable to any desired angle in relation to the primaries and also as to their degree of coupling with the primaries. By means of this method of mounting the inductances, the primaries are AUTOMATICALLY, CONSTANTLY AND CONTINUOUSLY VARIED at a definite, ever-changing rate of variation, with the turning of the condenser dials. This is the means by which an absolutely exact amount of coupling at every wave length setting is provided—the precise amount necessary to deliver to the secondary coils exactly the quantity of energy required to cause the radio frequency tubes to operate constantly, at their very peak of efficiency—as shown by the line BB, just below their oscillation curve AA. So efficient is the Karas Equamatic that when once correctly adjusted it positively cannot and will not oscillate in the slightest at any frequency between 200 and 600 meters, yet the slightest increase in filament voltage will throw the tubes into instant oscillation.

Not only is the Karas Equamatic the most efficient receiver you can possibly build, but it has also a selectivity, purity of tone and a volume that you can get in no other receiver. It is also extremely simple to operate. You will be able to spend far more time listening to the programs with your Karas Equamatic and far less in locating the stations you wish to hear than with any other receiver. And last, but not least, the Equamatic is extremely easy to build.

Easy to Build With Karas Parts

Karas has taken all of the bother out of building this powerful, full-toned, sensitive receiver by making its assembly a pleasant job for some convenient evening when you have an hour or so. We furnish complete layouts for panel and subpanel—simple, easily understood instructions for the placing of every part and the wiring of the receiver. A complete manual of simple wiring diagrams and full directions for building the Equamatic is packed with each set of three Karas Inductance Coils, together with all necessary nuts, screws and binding posts for building the complete receiver. You should use Karas parts in building the Equamatic wherever they are specified because this remarkable receiver was designed especially for these famous parts, and will operate at its highest efficiency only when they are used. To build the Equamatic you will need the Karas parts listed in the coupon, plus certain other standard parts easily obtainable anywhere. If your dealer cannot supply you with Karas parts for your Equamatic you may order direct from us by filling out and mailing the coupon below. SEND NO MONEY. Just hand the postman the price of the parts plus a few cents postage. Then build the set and have the receiver you have always wished you might own! Order the Karas parts today from your dealer or from us. Act NOW, while this page is before you. Learn for yourself how marvelously better the Karas Equamatic Receiver really is.

KARAS ELECTRIC CO.
1079 Association Building
CHICAGO

KARAS ELECTRIC CO.
1079 Association Building, Chicago, Illinois.

Please send me set of 3 Equamatic Inductance Coils, \$12.00; 3 special Orthometric Condensers with extended shafts, \$7.00 each; 3 Micrometric Vernier Dials, \$3.50 each; 2 Harmonik Audio Transformers, \$7.00 each; 2 Equamatic Retard Coils, \$1.00 each; and 3 sub-panel brackets, 70c, for which I will pay postman \$60.20, plus postage, upon delivery. It is understood that I have the privilege of returning any of this apparatus for full refund any time within 30 days if it does not prove entirely satisfactory.

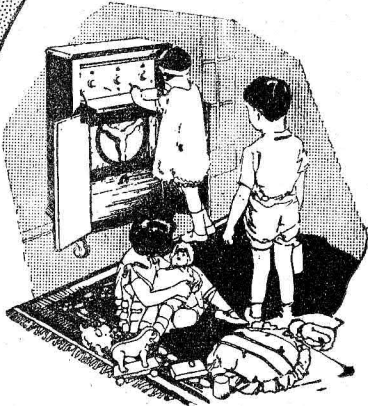
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Address

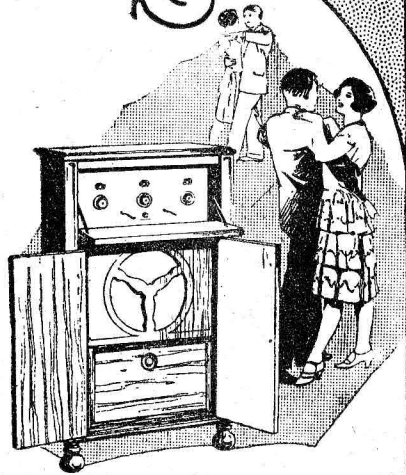
City State

(If cash accompanies order we will ship postpaid.)

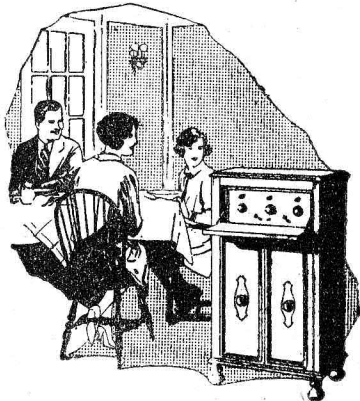
New and Improved FRESHMAN MASTERPIECE



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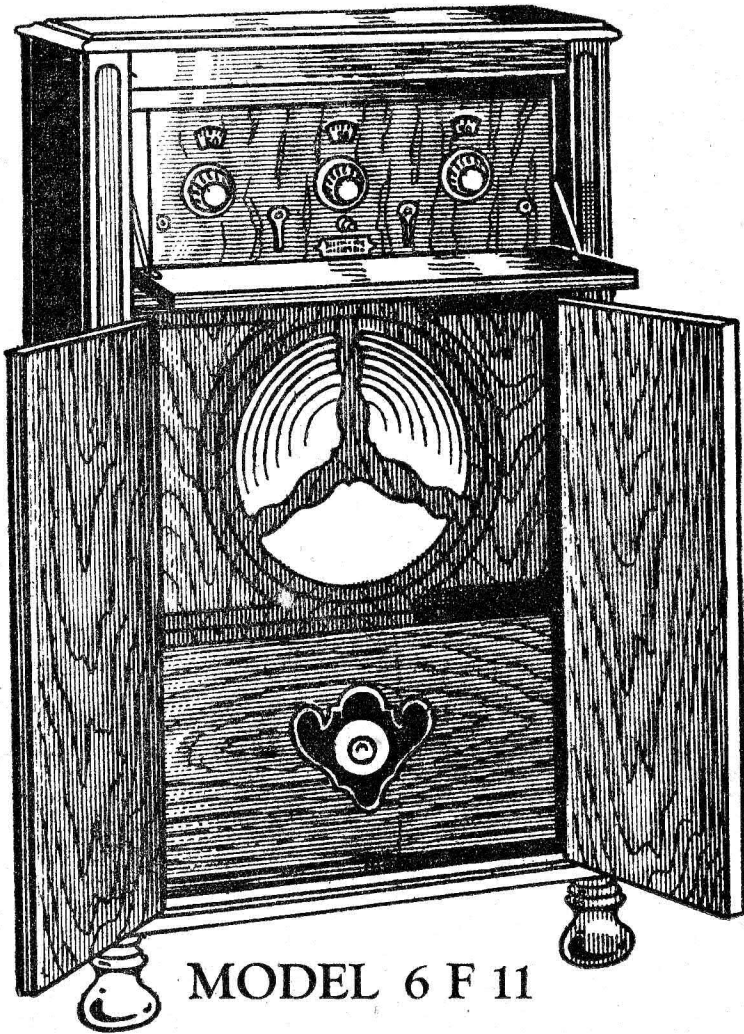


Shielded all
metal Front and
Sub-panel

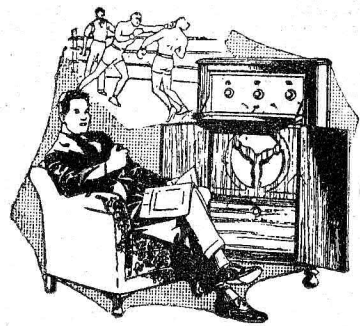


Operates by Electricity
if you prefer

This new QUALITY set is so designed to operate from your light socket by installing the new Freshman "ABC" Power Supply.



MODEL 6 F 11



Genuine R.C.A.
Radiotrons

are recommended for use with Freshman Masterpiece Receivers. A special package containing—1 UX 112 power tube, 1 UX 200A detector tube and 3 UX 201A amplifying tubes—matched and tested for the set in which they are shipped, is sold by Authorized Freshman Dealers.

Makes Life More Pleasant

—it is massive—it is beautiful—an article of furniture you will be proud to own. This "masterpiece of masterpieces" surpasses all expectations—the most perfect radio ever designed.

—takes you on mysterious journeys; miles and miles—North, South, East and West; comfort and rest in your easy chair.

—the world's finest entertainment yours—opera, dance music, concerts, lectures, sports; just take your pick.

—easy to tune with its three distinct controls;—brings in the

stations wanted day after day at the same dial points—eliminates overlapping of wave lengths which assures distinct separation of one broadcasting station from all others.

—its tone quality makes it wonderful—the large cone-speaker has been designed to exactly match the new Freshman Receiver. This special cone-speaker easily handles the full power that the new set delivers.

—make life more pleasant—with a Freshman Masterpiece Radio.

Sold on Convenient Terms by Authorized Freshman Dealers

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