

Fan Wins \$2,000 Interference Damages

Radio Digest

TWICE
A MONTH

Illustrated

FIFTEEN
CENTS

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Vol. XX No. 2



*Revised Station Directory; Opening of Transatlantic 'Phone Service; Wendell Hall Returns;
Action Depicted Behind WBBM Scenes; How to Wire 1927 De Luxe Super; Programs*

CARE AND NEATNESS IN WHOZIT WILL WIN

TWO \$1,000 GRAND PRIZES BONUSES WORTH WORK

Close of Game of Radio Artists' Faces Not Till March 15—Players Write Poems

Whoziteers are to have until March 15 to finish up their pictures for the contest. This much time is allowed for those who are taking the contest seriously. It will give them time to get their pictures together in unique and original order. It will also give time to those who are going after the grand prizes for the "neatest and finest entry for an individual station of any of all twenty-four Whozit stations, and for the one who has the best DX report on the Whozits of all the twenty-four stations."

WMAK Has Wide-Awake Club

Many fans are sending in poems about Whozit. Space limitations prevent us from printing much of this interesting material, although many of the verses are very clever. George Abel of La Porte City among several verses wrote:

*If your nose is on a brother
And your hair is on another,
Just be smart, cut 'em apart,
And paste 'em each to 'other.*

A. J. Erisman, director of WMAK at Buffalo, gets out a weekly booklet for his listeners which always has a lot of interesting Whozit material. They have a wide-awake Whozit club with two special entertainers, "Ad an' Oid" of the Ad-Club Funmakers. Also the Count and the Professor who make the air jingle and turn the Whozit into a WOWZIT.

WSM ADDS CHAIN AND BIG NEW SET

Countrywide Reception of Highest Quality Is Reported for Nashville "Shield" Station

NASHVILLE, TENN.—Resuming operations with a new 5,000-watt transmitter, WSM, The National Life and Accident Insurance Company station here, is renewing old friends of the Radio audience and is being heard with startling regularity and clarity from British Columbia on the northwest to Florida on the southeast, and from Southern California to Maine.

The new transmitter is the very latest type of Western Electric equipment and replaces the 1,000-watt set formerly used by the "Shield" station. WSM is fortunate in being able to draw from a wealth of talent in Nashville and surrounding territory.

The barn dance programs which are given each Saturday night reproduce the old-time music of the Tennessee hills and have a wide appeal in America today. WSM programs of spirituals are also received with interest when they are sung by members of the race which produced them.

WSM came on the air again with a test program January 5, at midnight. Mail has been pouring in ever since acknowledging clear reception of the station.

A hook-up with the Red Network of the National Broadcasting Co., the home station of which is WRAF, has brought a regular service of many outstanding programs. (Continued on page 39)

Legion Programs

EVERY WEDNESDAY evening until May 18, inclusive, from 6:15 to 6:30, Central Standard Time, Station WRNY (374.8 meters), Hotel Roosevelt, New York. Easy oral French lessons by Mlle. Alice Blum, famous teacher of French to troops of the A. E. F. Broadcasting especially for American Legionnaires who will make Legion trip to France next September. Lessons entertaining and instructive.

THORA MARTENS ON "VALENTINE COVER"

KEEN, scientific minds are picking away at the problem of moving pictures by Radio. When the time comes that we may sit by the fire-side and look up at the shimmering screen of the loud speaker and see the artist singing or playing, we are going to get double the pleasure of hearing the sweet contralto voice of Miss Thora Martens, whose picture adorns the Radio Digest cover on the reverse side of this page. Miss Martens is well known to listeners of the Chicago stations, attaching her fealty to no particular one. The picture shown here was taken by Drake Studios and furnished by WGN, the Chicago Tribune.

WGHB Director Gamely Keeps Station Going as Wife Lies at Door of Death

Mrs. W. W. Tison, Known as "The Virginia Girl" and Caroline Lee, Driving Operator Keown of WGHB to Depot in Car, Is Struck by Train—Seriously Injures Both

CLEARWATER, FLA.—Radio broadcasting is young but it is establishing its traditions of heroism. Tragedy may stalk in the control room or the studio but the program must go on. In this gay and blithe town, and for many miles around, folks sit on their front verandas and listen to the music and jesting that comes through the air from WGHB in the Fort Harrison Hotel. Few of them little know of the grief and anxiety in the hearts of those who carry on before the microphone.

Stricken to the point of death in a crossing accident, Mrs. W. Walter Tison, known to Radio audiences throughout the South as "The Virginia Girl," lies unconscious on a hospital cot a little distance away. Her husband, director of the station, sticks to his desk and keeps the program going while he shudders and turns pale at each tinkle of the telephone bell.

Operator in Same Wreck

His station responsibilities are even more exacting for he must keep close supervision over the operating end, for in the same hospital is Leon C. Keown, the

regular operator, body crushed and with one leg broken in four places from the same accident.

On New Year's night Mrs. Tison started out with her small sedan to take Mr. Keown to the depot. He was going to Rome, Ga., to visit his bride of ten days. Just as she gained the center of the track the panting black meteor of the Atlantic Coast Line express roared up from the dark and struck them at full speed. The sedan rolled over and over on the rails and was finally tossed into a ditch.

That the two occupants of the machine were not instantly killed is considered miraculous. Both were cautiously extracted from the wreckage by the light of flaring torches and removed to the Plant hospital.

Surgeons Fight for Life

Mrs. Tison with compound fractures of the skull was found to be most seriously injured. She also had a broken leg and numerous lacerations. Mr. Tison was at his microphone desk when notified by a Clearwater Herald reporter. He turned the instrument over to an assistant and rushed to his wife's bedside. He was all but prostrated with grief for they had been inseparable in work and in home. But he kept the programs going.

Skilled surgeons have been fighting for the life of the young singer, taking bits of bone from her skull and putting broken parts together. Up to January 15 she had been conscious but a very little of the time and her condition was still considered critical. Mr. Keown is slowly recovering.

The top of a storage battery should be sponged off now and then with an old rag saturated with a solution of baking soda.

Wooten's Radio and Electric company has moved from Coldwater, Miss., to Whitehaven, Tenn., and WREC moves with them.

Whozit Schedule

The schedule for the game of Whozit at the twenty-four participating stations remains the same for February 1-15 as was published January 1, with the following changes:

WPG (293.8), February 7 and 14, 8:30 p. m. Eastern time; February 4 and 11, 9 p. m. Eastern time.

WNAC (431), Mondays, 8:15 p. m. Eastern time.

Station WASH (264.3 meters), Grand Rapids, Mich., is continuing the Whozit contest, started by Station WOOD. The daily schedule is 11 p. m. Eastern time, or 10 p. m. Central time.

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Looking Ahead

Two Sections of Whozit to Go—and Then—\$26,000.00 in Prizes! The popular dialsters' pastime is rapidly drawing to a close, and copies of Radio Digest are being snapped up by hungry Whoziteers. Do not fail to finish this game—you may lose a valuable prize.

When C. R. Elsby, Secretary of the Lackawanna Radio Club, Told the editor of Radio Digest how his splendid club with 900 members had been cleaning up "man-made" interference at Erie, Pa., the editor opened his eyes. Result—a very helpful article on this subject by Mr. Elsby will appear in an early issue.

"The Green Mamba"—What Is It? A story you must not miss, beginning next issue.

Special articles about broadcasting stations and artists, with photographs, and NON-RADIO fiction \$1.00, 10,000 and 30,000 words in length are desired. No manuscripts accepted unless typewritten and prepaid, or returned without return postage being included. All manuscripts are sent at owner's risk.

Newsstands Don't Always Have One Left

WHEN YOU WANT

Radio Digest

YOU WANT IT!

BE SURE OF YOUR REGULAR COPY BY SUBSCRIBING NOW

SEND IN THE BLANK TODAY

Publisher Radio Digest, 516 N. Dearborn St., Chicago, Illinois.

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

Name

Address

City State.....

SHORT WAVES

By Marcella

Harriet Lee Captivates Gob; The Truth About Gene Rouse; Marley Sherris; D. R. P. Coats; Gladycy of Wichita Falls; H. Dean Fitzer; Samuel R. Guard; E. Harold Dana; Dorothy Goedecke Thanks Amateurs; Bob Ross; Patrick Henry Barnes; Nate Caldwell.

There comes today from far away

A voice I never knew—
It seems to say in tender way,
"My Dear I'm loving you,
"I think you are divine—
"Come fly with me and you shall be
"My Radio Valentine."

I SHOULD be writing Valentine verses for a living. But there is something romantic and appealing to the imagination for the girl who dwells with the voices that come through the night or the deep blue of heaven. And I dare say the men have their fancies, too. Indeed, I'm sure about it for I have documentary evidence to prove it. I even hold a carefully worded epistle from a blase gob on a gunboat who wanted to know where he could locate Miss Harriet Lee, one of the Radio Digest cover girls. He admitted that he had cut her picture from the cover and had it hanging over his wireless in the ship's Radio cabin. Miss Lee is a WLS singer, Chicago.

Almost every day someone asks about Gene Rouse, formerly of WOW, Omaha. For the benefit of those who do not already know Gene, Mrs. Gene and Baby Gene are Where Everybody's Happy, meaning WGBH, the Edgewater Beach Hotel, Chicago. This is Gene's picture and we did have a cute picture of the baby, Carol Lee Rouse, but as it was not recent and Carol had changed somewhat in appearance during her two years of existence, I am going to show you her picture some other time. Mrs. Rouse says Carol is a WOW at the telephone but has never tried the mike.



Marley Sherris, the new announcer at WJZ, comes from Toronto, Ont-o. And I s'pose that accounts for his accent, as you call it, "chaws his words," that's just his Torontoese. He is the one who put "tone" in baritone. He studied in Canada, the United States and Europe and he's BEEN MARRIED 19 years (Brown eyes and brown hair, Herb Glover at WJZ didn't send any picture.)

Helene of St. Paul: Here is the picture of Douglas R. P. Coats, director of CKY, Winnipeg. There is a Marjorie Coats and little John Coats, "about" a year old, as the Canadian Scotch say. But Papa Coats came to the Dominion from the little English town of Gravesend. He joined the Canadian Marconi company in 1913, and went to sea. In 1915 his vessel, the Morwenna, was shelled and torpedoed by a U-boat, the crew of 29 suffering one killed and four wounded. Later he became well known as a magazine writer through his articles on Radio. He was the first to point the value of Radio in reporting forest fires. He came to Winnipeg in 1922.



Gladycy of Wichita Falls, Tex., always writes interesting letters. She says: "Having nothing to do and lots of time to do it in I decided to give my brain a workout an' think a trifle and the sum and substance of what happened brought me to the conclusion that a law should be passed to prevent announcers and broadcasters going into double harness. Think of the millions of broken hearts each year (Gladycy is 13) an' all because some announcer or artist ups an' marries! I speak from the depths of a smashed heart—ah me! How sad it is! Sob, sob, dimmed lights, please."

Poor Gladycy! But she perks up right away when she thinks of some of the artists at WDAF. She wants to know about the Smith Brothers, Mark and Trade. While we are waiting to hear from WDAF about these venerable gents here is a picture of H. Dean Fitzer, the handsome WDAF director of the Kansas City Star. But Mr. Fitzer was married before ever he was known as the "Singing Announcer."



It is indeed true that Samuel R. Guard of the Sears-Roebuck station, WLS, is the preacher for the Little Brown Church in the Vale, Mrs. G. D. Eygabroad of McGregor, Minn. It is quite a remarkable story and one of these days you will be able to read all about it in Radio Digest. Mr. Guard steps from the role of high

(Continued on page 7)

WINS SUIT AGAINST ELECTRIC CO.

HAILS BROADCAST AS HELPFUL AD MEDIUM

W. H. RANKIN TELLS HOW RADIO HAS HELPED HIM

Means of Distributing 3,000,000 Goodrich Puzzle Books—Increasing Use of Gas and Electricity

NEW YORK.—"Radio is the advertiser's only chance to talk to the millions of people direct and tell his story by word of mouth into the home." Such is the excellent bill of health given broadcast advertising by none other than William H. Rankin, internationally recognized advertising authority and proprietor of the advertising agency bearing his name.



Wm. H. Rankin

In a paper which he broadcast here, entitled "Advertising and Its Relation to the Public," he strikingly tells of the many satisfactory experiences he has had with good-will broadcast advertising, as used by him in handling the advertising of several large clients.

Distributes 3,000,000 Books

"For instance," he said, "the Goodrich Silvertown orchestra has been on the air for nearly three years. At one time the Goodrich company offered a crossword puzzle book to the Radio audience. Over 300,000 people replied. The demand jammed the Akron, Ohio, postoffice.

"So after that we asked to call on the Goodrich tire dealers and get the book from them. In this way the B. F. Goodrich company distributed over 3,000,000 copies of the crossword puzzle book."

An interesting observation was made by Mr. Rankin which proved that Radio was helping to increase the use of gas and electricity. He said:

People Stay Up and Eat

"Through handling the advertising of gas ranges, I know that broadcasting has increased the use of gas and electricity in the home. People stay up later at night, burn more electricity and, about midnight, after listening to some of these beautiful Radio programs, get hungry and go out in the kitchen to use the gas range to prepare something good to eat or drink."

The veteran agency head stressed the value of Radio to advertising.

"The experience I have had all goes to show that the place of Radio is to help make advertising in newspapers, magazines, farm and business papers, street cars, billboards, theater programs and outdoor signs more valuable to the advertiser," he said. He continued:

"Radio broadcasting programs of merit with just enough advertising so as not to displease the home folks is a fine investment. We all know a personal call on the consumer is the best way to sell goods. The Radio voice of the advertiser reaches the home folks in the very best way, and gives personality to all the advertisements that are thereafter read by those who have listened in."

KTNT CHIEF ASKS DILL AND WHITE TO DEBATE

Norman Baker Would Settle Radio Law Argument

MUSCATINE, Ia.—Norman Baker, president of the American Broadcasters and owner of Station KTNT here, has issued an open challenge to Senator Dill and Representative White, members of the two houses of Congress whose respective Radio control bills have clashed and deadlocked, to appear in a joint debate on the subject of Radio legislation.

At the time of writing, the date of the debate had not been set. Answers from Dill and White are awaited. The challenge follows:

Senator C. C. Dill, Representative White, c/o Senate Office Bldg., and c/o House Office Bldg., Washington, D. C.

Dear Senator and Representative: As president of The American Broadcasters, an association of independent Radio broadcasting stations, who are not directly or indirectly connected with the trusts or Radio combines in any way, and realizing your connection with the Radio legislation, especially the condition that seems to be brought about by considerable propaganda from many sources, I suggest that in order to enlighten the people of America, who are all sufficiently interested in Radio to want proper Radio legislation, this be given to them over the air.

Therefore, I am inviting you to appear in a joint debate, which debate we undoubtedly can arrange over my Station, KTNT at Muscatine, Iowa, by remote control from Washington, D. C., or it can possibly be arranged over the chain stations.

LEADING LADY OF WMAQ PLAYERS



Gloria Chandler, leading lady of the WMAQ Players, has been heard in many roles by listeners within range of this famous Radio organization. Her work is exceedingly well done.

This debate will consist of Senator Dill, Representative White and Norman Baker. This way the public will have a fair show; they will know the situation from all angles, as Representative White will give it from his viewpoint, who many think leans toward the pro-Radio interest, and Senator Dill will give his viewpoint, and Norman Baker will take the side of the masses. I think this a very appropriate and a wonderful opportunity of giving the correct information which will eliminate all propaganda and result in real protection to the American Radio listeners, whereas, as it is now it appears that the Radio legislation is simply being used as a political football, besides some personal animosity.

Yours truly,
NORMAN BAKER, President,
The American Broadcasters.

Northwest May Get Chain

SPOKANE, Wash.—Spokane Radio fans have more than a little cheer in the announcement that it is likely the big WEAP and WJZ chain programs will be a reality in the Northwest before many weeks have passed.

On January 17, in New York city, representatives of stations KPOA of Seattle and KGW of Portland and KHQ in Spokane gathered in conference with A. T. & T. company officials.

The Green Mamba

CLANDON noticed that the crowd of guests was giving way to permit the passage of a sedan chair carried by two young men. It was headed for this alcove in which a footman stood serving cocktails.

"Stand back!" the young man commanded. "The Green Goddess comes."

As Alda stepped from the chair, Clandon saw her father's dark eyes light up at sight of her.

"Here's my old friend, Mungo Park, from darkest Africa. Assuage his equatorial thirst."

Thus Wyndham Martyn introduces to each other the girl and the man in his great story, "The Green Mamba," which begins in the next issue of Radio Digest. Wyndham Martyn is an author well known on both sides of the Atlantic. He is at present a resident of Southern

California where his grandfather trekked from the East in the days preceding the Forty-niners. But Wyndham was born and raised in England. He writes of music and romance. His American literary career began in New York, where he served as editor of the New Yorker, Pearson's and on the sport staff of the New York Times.

But the West was his goal. He punched cows in Arizona and for the past six years has thoroughly explored all the southern half of the Golden State. He is president and associate director of the Santa Monica Community Theater Guild. He plays polo, golf, tennis and swims when he is not skimming the motor highways. And when he works you will find him in a camp on the Mojave Desert, where he writes such stories as you will read in The Green Mamba. It's in the mid-February issue.

OBTAINS \$2,000 FOR RADIO INTERFERENCE

FAN IS COMPENSATED FOR HARM TO RECEPTION

Milwaukee Electric Co. Must Pay P. J. Walter For Noise Caused by Power Lines

MILWAUKEE, Wis.—What is believed by authorities to be the first case in America where a public utility has been held liable for interference with Radio reception, was brought to light recently when the Wisconsin State Supreme court upheld a Circuit court jury in awarding \$2,000 damages to the Radio listener who sued.

Peter J. Walter was the successful individual who carried the fight through to the state's highest court.

His suit for damages had its start some months ago when he named the Milwaukee Electric company on the grounds that a high tension electric line belonging to that company and located near his home, made it impossible for him to tune his Radio set without considerable objectionable interference.

The case has aroused nationwide interest on the part of Radio clubs and listeners who are seeking to curb various forms of "man-made" and non-Radio interference, and who have been unable to obtain satisfactory cooperation from public utility companies whose devices and machinery are creating the interference.

Several clubs, it is known, are planning test suits in their respective states to force action from dilatory electric power and traction companies.

SHEER GRIT WINS PLACE FOR WASH

Little Grand Rapids Station Fights Against Enormous Odds but Maintains Service

By a Staff Correspondent

GRAND RAPIDS.—By sheer grit and determination Station WASH of the Baxter Laundry company is keeping this smug little city of 146,000 on the Radio map. Station WOOD, bearing the slogan of the Grand Rapids Furniture Association for \$5,000 a year, has suspended after heroic but vain efforts to interest business and commerce in giving the station sufficient subsidy to survive.

"We had a committee appointed three years ago to consider the feasibility of Radio to advertise Grand Rapids," said Secretary Bierie of the Grand Rapids Association of Commerce, "and we came to the conclusion that it wouldn't pay. Why they tell us it would cost \$31,000 a year to maintain a broadcasting station here and besides that we would have to hire talent that would bring the cost up to \$50,000. That's too much."

But WASH is not discouraged. Now that the whole responsibility of keeping Grand Rapids on the map has fallen on its shoulders it is going ahead with renewed effort, presenting the best talent available and giving excellent service to the surrounding territory. One exhibition of its excellent sportsmanship is the taking over of the Whoozit Game, started by WOOD. The Radio Digest \$1,000 Whoozit prizes for Grand Rapids listeners will be awarded through Station WASH.

Shhh! Here's How You Can Eavesdrop on Ocean Phone

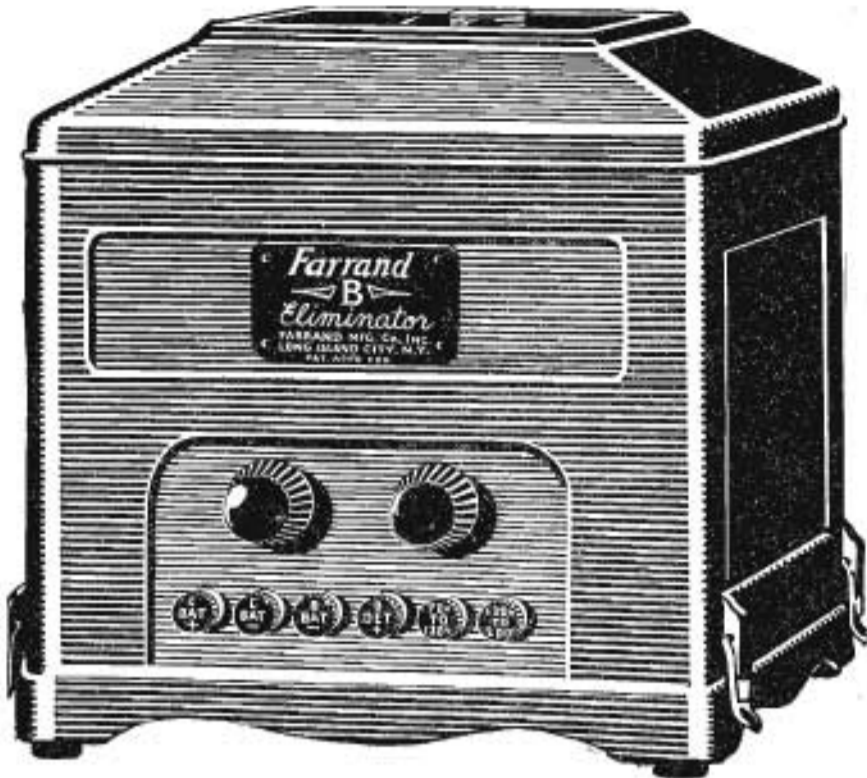
WANT to hear the transatlantic Radio telephone conversations, passing between America and England daily and nightly since the service was opened recently? Here's how to catch at least the American side of the powwows, as transmitted from Rocky Point, Long Island.

Equip yourself with a three honeycomb coil type receiver. One tube is enough, but you can use a stage or so of audio if you wish. One coil is to be the primary, the second the secondary, and the third the tickler feedback coil.

Tune both primary and secondary with the same size variable condensers. The tickler is untuned. Here are the sizes of coils (number of turns) to use depending on the size of the two variable condensers employed:

	350mmfd.	500mmfd.	1000mmfd.
Primary	500	450	300
Secondary	600	500	400
Tickler	550	400	300

And—a good long aerial will help. The Rocky Point station is sending on a wave length close to 5,000 meters.



No "IFS", "ANDS" or "BUTS" about this "B" Eliminator

NO matter what type of set you own, no matter the number of tubes (it may even be as many as ten) the Farrand "B" Eliminator will provide ALL the voltage required—up to 200 volts, if necessary. There are no adjustments, no fussy meters to watch. There is nothing to wear out. No acid or water. It is absolutely trouble-proof—a revelation in dependability under any and all conditions. Operates on 60-cycle, A. C. Ask your dealer!

\$48.50
without tube
Slightly higher West of Rockies

Farrand B ELIMINATOR

— made by the makers of the famous **Farrand Speaker**

FARRAND MFG. CO., INC. • LONG ISLAND CITY, N. Y.



This is the Heavy-Duty battery in which the new Layerbilt construction provides greater economy

THERE'S an important discovery in radio economy awaiting all users of loud-speaker sets who have been buying the smaller Light-Duty "B" batteries instead of the large Heavy-Duty size required by such sets. Because the Light-Duties cost somewhat less to buy they seem like an economy, but the surprising fact is that the Eveready Layerbilt No. 486 lasts more than twice as long though it does not cost anywhere near twice as much. It is, therefore, much more economical—we believe it to be the most economical "B" battery ever built. Certainly it has proved this by laboratory tests and the service it has given to radio listeners in their own homes during the past eighteen months.

Eveready Layerbilt's remarkable life is due to its unique construction. All other dry cell "B" batteries are assembled of cylindrical cells, with much waste space between them, and many soldered connections bridging the gaps.

Several years ago we struck boldly out, away from this tradition, seeking a better method.

We wanted to avoid waste space, minimize soldering, and get more current and longer life from a given quantity of active materials. The Eveready Layerbilt is the result.

This patented, exclusive battery is built in layers of flat current-producing elements, making automatic connection with each other. Every available inch inside the battery is occupied usefully. You get more battery for your money, and that battery is more efficient.

Remember this about "B" batteries: All loud-speaker sets require Heavy-Duty batteries, and the Eveready Layerbilt has proved time and again to be the longest lasting and most economical of Heavy-Duty "B" batteries.

Manufactured and guaranteed by NATIONAL CARBON CO., INC. New York San Francisco Canadian National Carbon Co., Limited Toronto, Ontario

Tuesday night is Eveready Hour Night—9 P. M., Eastern Standard Time, through the following stations:

- | | |
|------------------|------------------|
| WEAF—New York | WTAM—Cleveland |
| WJAR—Providence | WVJ—Detroit |
| WEEI—Boston | WGN—Chicago |
| WTAG—Worcester | WOC—Dayton |
| WTI—Philadelphia | WCCO—Minneapolis |
| WGB—Buffalo | WCCO—St. Paul |
| WCAK—Pittsburgh | KEO—St. Louis |
| WSAI—Cincinnati | WAC—Washington |

SURE YOU CAN TALK TO LONDON FOR \$75

TRANSATLANTIC PHONE IS OPENED TO SUBSCRIBERS

All You Need Is Telephone and Lots of Money—Special "Hello" Girls Handle Calls

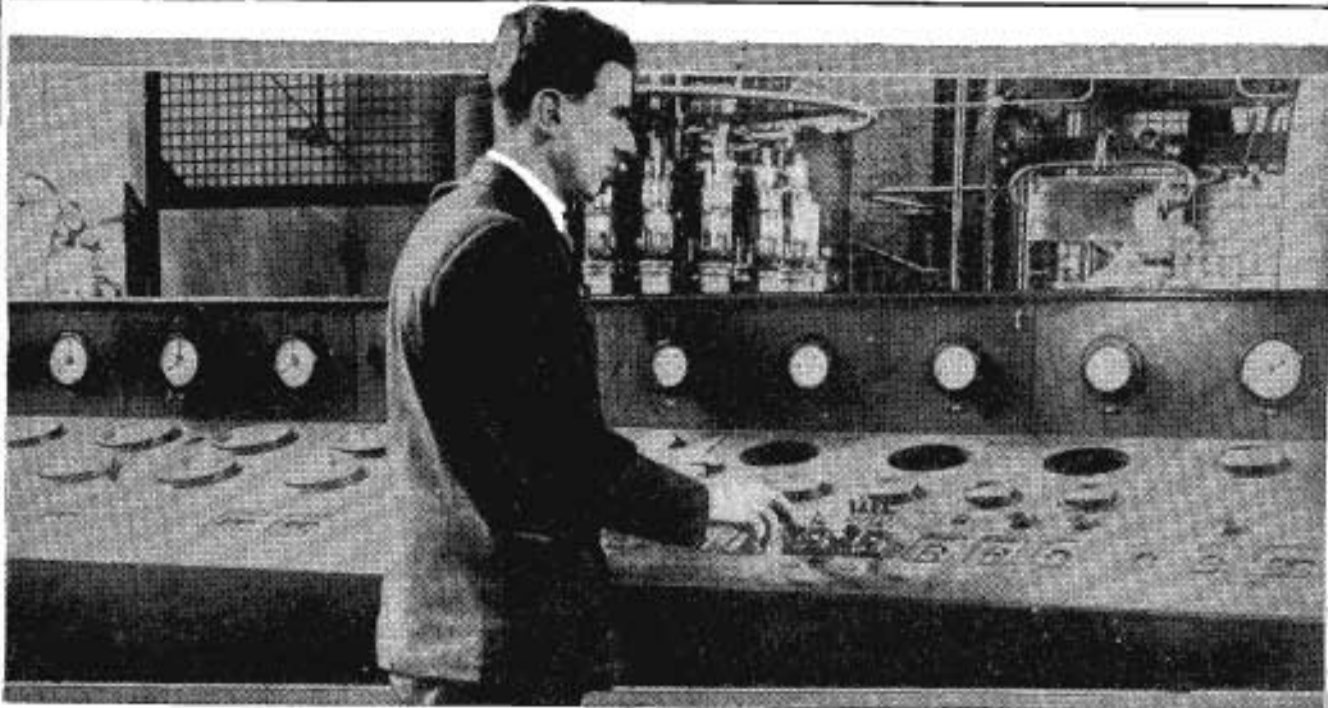
"HELLO! Hello!"
 "Elo-lo-lo! I say, 'ello! Are you there?"
 "Hello! This is Nee Yawk calling London!"
 "Elo! Why you jolly well have Lon'on, old chapple."
 And now they're doing it every day over the air through the regular little Hello Boy that sits on old John Anybody's desk in the East American metropolis. The first official message was transmitted by Walter P. Gifford, president of the American Telegraph and Telephone company and the picture shows Mr. Gifford in the very act of talking to Sir G. Evelyn T. Murray, secretary of the General Post-office of Great Britain, in London, January 7, 1927.

What It Costs

It costs \$75 to talk between the hemispheres for three minutes and the scale then runs \$25 a minute. This is a good way for Anxious Lover to prove his love to his London sweetheart if he calls from New York.

A trans-Atlantic Radio switchboard is a formidable looking affair as may be seen from the accompanying picture which shows a young man with his finger on the

HOW ENGLISH END OF TRANSATLANTIC 'PHONE LOOKS



Above shows operator at controls of gigantic transatlantic Radiotelephone station at Rugby, England. Right, W. F. Gifford, president of A. T. & T. Co., opening services with first official conversation.

NEW "BANJO UKE" IS SPONSORED BY HALL



IT'S just about a year since Wendell Hall, the Red Headed Music Maker, and his bride returned from their honeymoon trip to Europe. And here we are showing you the new Wendell Hall baby. It is called the Wendell Hall Professional Banjo-Ukulele. It's a hummer, not a crier, and the name tells you exactly what it is. You should hear the Red Head pick it.

But Radio audiences have missed this old time favorite for many months. He explains in a letter to Radio Digest that it is because he has been devoting his time to this new "baby" and to the Brunswick records.

Uke Fans May Appreciate This

Perhaps you are unfamiliar with the modern composer's patter. He calls attention in his descriptive matter to the "blooey-blooys" that he introduced three years ago in his compositions, "It Ain't Gonna Rain No Mo'." They were "squealed" into the "fill-ins" or "breaks." Whatever that may mean his explanation continues:

"A little later Ukulele Ike and others improved on this idea by making more peculiar and more kinds of various noises—in other words, advancing a step in this vocal orchestral arrangement effect. Then came the next step, the merry-makers with their wonderful vocal arrangement creations.

It may have been noticed in their records that the fill-ins or breaks are partly vocal squeals and partly words. You cannot help but notice how much like a modern orchestration their vocal arrangements are. . . . now, there has come another progressive step."

"Chatter" Arrangement Latest

In the new songs titles are lengthened, like "Take in the Sun and Hang Out the Moon," and "I'm Telling the Birds, Telling the Bees How I Love You." The advancement, he says, shows how "the breaks are filled in with attractive, carefully rhymed words sung to a catchy fill-in melody strain . . . and the word picture is strengthened with continuity and the whole vocal orchestration is a more finished presentation.

The new arrangement is called "chatter." Anyway, the Red Head says he expects to be on the air more this season and will be heard from New York and Chicago.

key of the transmission panel that rings up New York from Rugby. There are three such stations on the British end of the service: one at London, another at Rugby and the third at Wroughton. This particular illustration shows the control table by which the telephone speech is lifted from the wire and projected across the sea by Radio.

Pick Special Telephone Girls

A special dispatch from Radio Digest's London correspondent states:

"Young women telephone operators with

voices of a special quality have been selected to work the circuit of the new transatlantic Radiotelephone service connecting London and New York.

"There are certain minor details changed when dealing with an international service," said Dr. Hanslip, who is in charge of the experiments in London, in an interview, "and these young women will have to adapt themselves to these particular circumstances. In time this new service will form part of the regular training of all telephone operators."

ACTION PLUS BEHIND AIR THEATER SCENES

STAFF AT WBBM FINDS ITSELF VERY, VERY BUSY

Wonder What Station Directors Think About? Ask Mr. Kelly Smith—He'll Tell You

IT IS doubtful if there is any broadcasting station in Chicago's thirty some odd that receives more mail from all parts of the country than the Stewart-Warner station, WBBM. It maintains a large staff of paid artists and one of the most luxurious studios in America. There is a social camaraderie among the WBBM artists which reflects itself in a pleasing way to the great Radio audience.

This statement is true in spite of the



threatening picture below at the left which shows Joe Allabough, the cave-man tenor, in the apparent design of tuning out Miss Eunice Hoeffler's outburst of song. But, we are hastily informed, this is intended as no reflection on Miss Hoeffler's musical ability. She's just teasing him by singing his pet aversion, "The Prisoner's Song."

Ear's Very Necessary to Mr. Smith
 And when we look at the next picture

"Broadcasts" of Years Ago

CHICAGO.—New types of loud speakers wherein both the cone and horn type are combined for distinctive advantages found in each, recall some of the first efforts at broadcasting by one of the old timers, Frank Reichmann of Chicago.

According to Mr. Reichmann "wired concerts" over the old Automatic telephone was the first use of broadcasting as it is known today and also the first appearance of the loud speaker. The Automatic Telephone company at that time



was a small rival of the present Bell system. But the subscribers enjoyed concert programs sent out over the lines from a studio in the Westminster building.

EARS VERY HELPFUL TO DIRECTORS



No, broadcasting directors really do more than broadcast. Take, for instance, Mr. Kelly Smith, of WBBM, and his crew, above. The routine of a broadcasting station is a very complex process—absolutely Mr. Sheen.

tone; he doesn't have to talk—just hold a cigarette in one hand and show a paper with the other. That need not prevent Mr. Smith from looking up to see Ben K. Pratt coming through door outside of the picture.

Intricate Process This Directing

When Mr. Pratt sits down you will see Mr. Smith turning one eye on the paper held by Mr. Jeske and the other eye on the schedule sheet displayed by Mr. Caldwell—Nate Caldwell, the only Radio announcer on record to be sued for \$100,000 for breach of promise.

And right there between Nate and Eunice is our cave-man tenor again, Joe Allabough. Now we know everything is okeh and Joe was only fooling when he threatened to choke the fair Eunice. Note that Mr. Smith has but one mouth and it is perfectly idle.



Add the new
Balkite Combination
to your radio set now
 with your "A" battery it supplies
 all radio power automatically from
 the light socket

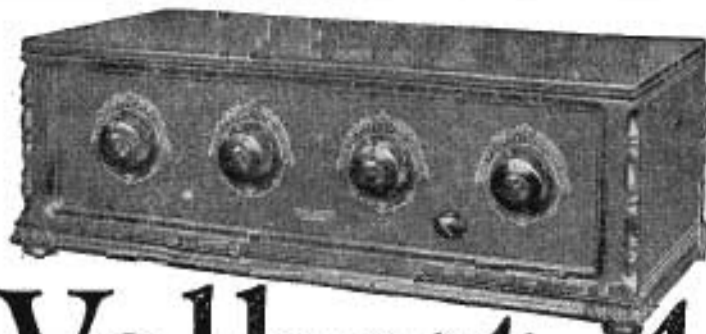
Now, with the best portion of the radio season before you, make your radio set a light socket receiver by adding the new Balkite Combination Radio Power Unit. Once connected to your "A" battery and set and plugged into the light socket, it supplies automatic power to both circuits. You need not even turn it off and on, for it is controlled by the filament switch already on your set and is entirely automatic in operation. It will give you a constant quality of reception that cannot be secured in any other way.

Balkite Combination can be installed in a few minutes. It has no tubes, nothing to replace or renew and is a permanent piece of equipment. It is noiseless in operation. It will serve any set now using either 4 or 6-volt "A" batteries and requiring up to 30 milliamperes at 135 volts of "B" current — any set of 8 tubes or less, including power tubes.

Add Balkite Combination now and know the pleasure of owning a receiver always ready to operate at full power not only this season but for years to come. Price \$59.50. [In Canada \$83.] Ask your dealer. *Fansteel Products Company, Inc., North Chicago, Illinois.*

Walter Damrosch and the New York Symphony on the Air
 Every other Saturday night a symphony concert. On alternate Saturdays
 one of Mr. Damrosch's famous piano recitals. Over Stations: WEAF,
 WEEL, WGR, WFI, WCAE, WSAI, WTAM, WWJ, WGN, WCCO,
 KSD, WDAF, WOC, WCAP. Balkite Hour Saturday Evenings:
 9 P. M. Eastern (8 P. M. Central) Standard Time.

FAN STEEL
Balkite
Radio Power Units



Walbert-47

a 4-dial 7-tube receiver
 for radio skeptics

Sold on 7 days' trial with a money-back guarantee

This advertisement is directed to owners who have been disappointed with their radio sets, to those who don't believe the receiver exists that will do what they expect of it, to those who must have both selectivity and distance and have despaired of securing either

Perhaps you are skeptical about radio, and perhaps rightfully so. Perhaps you have tried a half dozen sets on promises but have yet to hear the receiver that will do what you thought it would when you bought it. Perhaps you live in a congested radio center where you must have real selectivity or in an out-of-the-way part of the country where you must get real distance to enjoy a radio set at all.

If this is your case this message is directed to you. For the radioreceiver that will fully live up to your expectations does exist. It is the Walbert Isofarad.

The Walbert Isofarad (U. S. Patent 1,584,166) is the greatest development in radio circuits of the last two years. It has received more favorable comment from editors of radio publications than any set since the early days of radio. It has been described as the finest radio instrument in the world.

The Walbert Isofarad is not an untried receiver making unprovable claims. Hundreds of nearly unbelievable letters from owners show that wherever the Walbert is being used it is outperforming any receiver known, and that its superiority is showing up most strikingly wherever conditions are worst and reception is most difficult. Out West, in Canada, New Zealand, in the Orient, wherever stations are sparse, the Walbert is breaking all records for distance. In Chicago, where broadcasting conditions are the worst in the country, the Walbert is breaking through interference and locals, not on occasion but consistently and regularly. In fact the receiver has sold mainly by word of mouth, on the strength of performance at the hands of its owners. In hundreds of cases people have or-

dered the Isofarad direct from us on the strength of one hearing.

The particular Walbert Isofarad we recommend for anyone living where reception is difficult is 47, shown above. It is a 7-tube set, with three radio frequency, detector and three audio stages. It will give you more volume than you can use, with no blooming or radiating. It is not a 1 dial set, for it must be obvious to anyone by now that 1 dial will never be as sensitive or selective as 2 or more. Its 4 vernier dials give you a precision and sureness of tuning known in no other commercial receiver. And far from being hard to tune it is surprisingly easy. In a handsome table model, Price \$180— with prices slightly higher in Canada and West of the Rockies.

\$50 down—7 days' trial
Money-back Guarantee

We are so certain that this receiver will outperform any set you ever heard that we want you to be the sole judge of whether or not you want it. Radio dealers throughout the country now carry it. But if yours doesn't, this is our offer: Send us your check or money order for \$50 as a down payment to show you are seriously interested. We will then ship you the receiver prepaid. Then install and operate Walbert-47 for 7 days. If it does what we have led you to expect it will, pay us the balance. If it doesn't, return the receiver collect and we will immediately refund your money. References [preferably the name of your bank] must accompany your order. Act now and you will have your Walbert for the best portion of the radio season which is still before you. Use the coupon.

Walbert Manufacturing Company, 925 Wrightwood Ave., Chicago
 Walbert of Canada, Ltd., London, Ontario
 Makers of the famous Penetrator—audio frequency amplifier for radio sets

References must accompany your order

Walbert
Isofarad
 Radio Receiving Set

Walbert Manufacturing Company
 925 Wrightwood Ave., Chicago

Gentlemen:

Enclosed please find my check or money order for \$50, for which please send me Walbert-47, prepaid. I will keep it for 7 days. If at the end of that time I do not find it satisfactory I will return it collect and you will refund my money. If I keep it I will then pay you the balance of \$130. References are included.

Name _____

Address _____

HER FEMINE TOUCH ONE SECRET OF WLS

DOROTHY A. ROUX BLENDS
WHAT "MIKES" PICK UP

Makes Presentations One Harmonious
Whole with Blasts Suppressed and
Soft Notes Strengthened

EVER notice the fine and artistic quality of the WLS musical numbers? There's a reason. The reason is Dorothy Aray Roux, the lady whose capable hands are seen at the WLS controls in the picture. It is the delicate, intuitive feminine touch, guided by a musically-trained mind, that gives you that satisfactory feeling when an orchestra, a single instrument or a voice comes through your loud speaker without disturbing mechanical flaws.

Yes, Miss Roux is the real maestro—or should it be "maestress"—whose baton is a dial that builds up the crescendo or diminuendo by increase or decrease of the volume of electrical current that pushes the original sound off the transmitting antenna.

Blends All Into Harmonious Whole

"Instead of standing up before my orchestras," Miss Roux explains, "I sit here at the control board and do my 'conducting' with my control knobs. When one voice or one instrument comes booming through the microphone I tone it down; if it weakens and gets lost among the other voices, I can bring it out, working the various voices or instruments into a harmonious whole for the listeners out on the air."

Before a performance starts Miss Roux leaves her little pilot's office and "arranges her set" in the studio so that all sound producers are placed at proper distances from the microphones. The right kind of stage setting has much to do with the proper presentation to a Radio audience.

Besides being a skilled musician Miss Roux also understands the electrical technique—resistances, batteries, ohms, amperes, volts and all that. Chemistry is another scientific forte of this remarkable young woman. These facts may interest you the next time you listen to a WLS program.

Lotta Harhoff, 1924 Queen of Radio, is authority for the statement that 80 per cent of the listeners in the United States are women.

WOMAN BEHIND THE PANEL AT WLS



Instead of the "Man Behind the Gun" it is the woman behind the panel at the Hotel Sherman studio amplifier room of Station WLS, Chicago. The Sears-Roebuck station finds the lady above, Dorothy A. Roux, very capable and necessary in blending the whole of any WLS presentation into one satisfactory broadcast. She turns the knobs that strengthen the soft high and low notes, and throttle down the blasts from the stronger sections of a musical score. Oftentimes, being a musician, she reads the music being broadcast and keeps just one bar ahead of the players or singers, so that her control is practically instantaneous.

SHORT WAVES

By Marcella

(Continued from page 2)

powered business man to talk religion through the WLS pulpit and is making a wonderful success of it.

Miss Ada Morgan O'Brien, director of KTAB, Oakland Calif.: I have a letter signed "Gertrude of Golden Gate" and another signed "H. J. S." asking for information about E. Harold Dana. According to my record Mr. Dana was at last reports located at your station but expected to go abroad to study during this winter. Now, Miss O'Brien, you know what a girl wants to know and everything, will you write and tell me? I know this, Gertrude, Mr. Dana was off by himself singing to the bees in his dad's orange grove when who should happen along to hear him all unbeknownst

but Georgianna Strauss of the Metropolitan Opera, "Marvelous," exclaimed the opera star, "Who is it?" Then, in walked Mr. Dana. Afterward Titia Ruffo also enthused over the Dana baritone. Then it was declared that Dana should go to Italy to study. But in the meantime he was announcing and singing at KTAB.

Miss Dorothy F. Goedecke of the John Fluke school, Chicago, who has won two silver cups for essay contests at the Chicago Radio Show wrote me a letter which has been overlooked for some time. She wants to thank all the Radio fans across the country who helped her to send a message by short wave relay to Mr. Arthur Schultze of the Seattle Times.

In answer to Jeanette and A. M. D.—E. E. May of KMA writes as follows: "Bob Ross, sixteen, plays with Mayflower Trio and is a senior in high school. Ruth Farnham Ulrich, married, plays with Farnham Trio. D. S. Ulrich, announcer, is her husband. He is a graduate of Northwestern University. Elsie Farnham, also of Farn-

ham Trio is likewise a graduate of Northwestern and helps direct KMA programs—very talented musician. All the Farnhams like out-door life and travel during the summers. On KMA every Monday at 9 p. m."

That Pat Barnes of WHT well deserved the honor as runner-up for America's most popular announcer in the gold cup award is manifested from the many letters of inquiry received about him by Marcella, Florence Mason writes from Wymore, Neb.: "I am interested in Al and Pat. I know Pat is married and some sheik and that Al weighs 190 pounds and is a bachelor. But what else do you know about them? Does Mrs. Barnes teach in the Chicago musical college? I have a friend who would like to take music lessons from her." I have given you a t. n. of Mrs. B. and here is one of Pat himself. One of these days we are going to have the article you suggest and then all of those special questions will be answered.



So you think that you really MUST KNOW, Louise? It's true, absolutely true—Nate Caldwell of WBBM is married. But don't feel too bad about it. Just think of the young lady down in St. Louis who killed Nate so well while he was announcer at KMOX she brought suit for breach of promise and she wanted enough money to start a national bank in business. Nate, being a trifle shy of a million dollars or so, did the next best thing by giving her the whole metropolis of St. Louis and going to Chicago. Oh, boy, page Carmine Jardon for the lady! As for Ralph Waldo Emerson of WLS, he was still organized on a single-blessedness standard at last reports.

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.

Broadcast Waves Fertilize This Englishman's Garden

LONDON, England.—At a garden near Nottingham tomato plants are giving tremendous yields, out of all proportion to any others in the locality. Hollyhocks, laden with giant blooms, are over ten feet in height. Sweet peas are wondrously prolific.

The owner, William Boot, attributes this remarkable growth to the fact that last year he fixed copper wires, accidentally insulating them, on which to train his plants.

WOMAN'S PROGRAM INDEX

(Daily Unless Indicated)

Household Economics, Women's Hour, Etc.

Eastern	Central	Mountain	Pacific
5:30 a.m.	6:30	7:30	8:30
WWJ (352.7m-650kc), Tonight's dinner.			
10:30	9	8	7
WFP (308.3m-525kc), Menu, Tues, Thurs, Sat.			
WPCA (346.7m-650kc), Homemakers' club, Tues.			
10:15	9:15	8:15	7:15
KDKA (309.3m-570kc), Homemakers' chats, Tues, Fri.			
10:30	9:30	8:30	7:30
KVOO (374.8m-650kc), Mothers' hour.			
10:40	9:40	8:40	7:40
WTAG (345.1m-550kc),			
10:45	9:45	8:45	7:45
WEAF (491.5m-610kc), Betty Crocker, Mon, Wed, Fri.			
10:45	9:45	8:45	7:45
WFI (354.5m-750kc), Betty Crocker, Mon, Wed, Fri.			
10:45	9:45	8:45	7:45
KDKA (309.3m-570kc), Betty Crocker, Mon, Wed, Fri.			
10:45	9:45	8:45	7:45
WYAM (389.9m-750kc), Mon, Wed, Fri.			
10:55	9:55	8:55	7:55
WBCN (266m-1130kc), Home service program.			
10:55	9:55	8:55	7:55
KSAC (340.7m-650kc), Housewives' half hour.			
11	10	9	8
WCCO (385m-1050kc), Polly Porter.			
11:10	10:10	9:10	8:10
WJZ (428.3m-700kc), Homemakers' hour, Tues, Thurs, Fri.			
11:10	10:10	9:10	8:10
WSD (428.3m-700kc), Homemakers' hour.			
11:15	10:15	9:15	8:15
WCAE (481.3m-650kc), Women at home.			
11:25	10:25	9:25	8:25
KYW (315.4m-550kc), Table talk.			
11:45	10:45	9:45	8:45
WCCO (401.4m-720kc), WDAF (385.6m-620kc), Betty Crocker, Mon, Wed, Fri.			
11:45	10:45	9:45	8:45
WNYC (520m-570kc), Home economics, Wed, Fri.			
11:45	10:45	9:45	8:45
WBBE (370.3m-610kc), Prudence Perry.			
11:45 p.m.	10:45	9:45	8:45
WQJ (447.5m-670kc), Home economics.			
12:15 p.m.	11:15	10:15	9:15
KMOX (380.3m-1070kc), Cooking, household hints.			
12:30	11:30	10:30	9:30
KMTX (370.2m-610kc), Sylvia the billed cook, Tues, Thurs.			
12:45	11:45	10:45	9:45
WGN (332.5m-650kc), Home management period.			
12:45	11:45	10:45	9:45
WTAG (345.1m-550kc), Lydia Flinders, Fri.			
12:45	11:45	10:45	9:45
WNYC (520m-570kc), Recipes.			
12:55	11:55	10:55	9:55
KSAC (340.7m-650kc), Housewives' half hour.			
1	11	10	9
KFI (465m-640kc), Betty Crocker, Mon, Wed, Fri.			
1:05	11:05	10:05	9:05
KGW (491.5m-610kc), Household helps.			
1:30	12:30	11:30	10:30
WSD (428.3m-700kc), Ladies' hour, Mon.			
1:30	12:30	11:30	10:30
KNX (336.2m-650kc), Household economics, Daily ex Sat, Sun.			
1:45	12:45	11:45	10:45
KNO (428.3m-700kc), Betty Crocker, Mon, Wed, Fri.			
2:05	1:05	12:05	11:05
KFR (384.4m-700kc), Prudence Perry.			
2:10	1:10	12:10	11:10
WJZ (454.3m-600kc), Daily menu, ex Sat.			
2:10	1:10	12:10	11:10
KGO (361.2m-630kc), Prudence Perry.			

Eastern	Central	Mountain	Pacific
2:15 p.m.	1:15	12:15	11:15
KOIL (305.5m-590kc), Shopper's aid.			
2:25	1:25	12:25	11:25
WJZ (454.3m-600kc), Shopping service, Mon.			
2:30	1:30	12:30	11:30
KFXP (447.3m-650kc), Women's hour.			
2:30	1:30	12:30	11:30
KJR (348.4m-700kc), Shopping news.			
2:30	1:30	12:30	11:30
WCCO (415.4m-720kc), Women's hour, Wed, Fri.			
2:30	1:30	12:30	11:30
WBB (365.6m-620kc), Ladies' hour, Mon, Wed, Fri.			
2:30	1:30	12:30	11:30
WSD (428.3m-700kc), Cooking chats, Mon.			
2:30	1:30	12:30	11:30
WIP (508.2m-590kc), Market hints for housewives, menus, Mon, Tues, Fri.			
2:30	1:30	12:30	11:30
WJZ (454.3m-600kc), Your daily menu.			
2:30	1:30	12:30	11:30
WBO (520m-570kc), Recipes, household hints, Tues.			
2:30	1:30	12:30	11:30
WHL (272.6m-1150kc), Housekeeper's chat.			
2:30	1:30	12:30	11:30
WLS (344.6m-670kc), Homemakers' hour.			
2:30	1:30	12:30	11:30
WLW (422.3m-710kc), Cooking chat, Wed.			
2:45	1:45	12:45	11:45
KPNP (481.3m-650kc), Ladies' hour, Mon, Tues, Thurs, Fri.			
2:45	1:45	12:45	11:45
WIP (508.2m-590kc), Market hints for housewives, Tues.			
2:45	1:45	12:45	11:45
WOC (483.6m-620kc), Aunt Jane.			
2:45	1:45	12:45	11:45
WQJ (447.5m-670kc), Home economics.			
2:45	1:45	12:45	11:45
KMOX (380.3m-1070kc), Housewives' hour, Wed.			
2:45	1:45	12:45	11:45
WNAE (481.3m-650kc), Women at home.			
2:45	1:45	12:45	11:45
WOS (440.9m-620kc), Mon, Thurs.			
2:45	1:45	12:45	11:45
KYW (315.4m-550kc), Meat talk, John Cutting, Mon.			
2:45	1:45	12:45	11:45
WMAQ (447.5m-670kc), Mothers in council, Wed.			
2:45	1:45	12:45	11:45
KOA (322.4m-630kc), Housewives' station, Tues, Thurs, Fri.			
2:45	1:45	12:45	11:45
WOS (440.9m-620kc), Mon, Thurs.			
2:45	1:45	12:45	11:45
KYW (315.4m-550kc), Meat talk, John Cutting, Mon.			
2:45	1:45	12:45	11:45
WMAQ (447.5m-670kc), Mothers in council, Wed.			
2:45	1:45	12:45	11:45
KOA (322.4m-630kc), Question box, ordinary hints, Tues, Thurs, Fri.			
2:45	1:45	12:45	11:45
WAW (422.3m-710kc), Cooking school, Wed.			
2:45	1:45	12:45	11:45
KGO (361.2m-630kc), Hints for housekeepers, Wed.			
2:45	1:45	12:45	11:45
KUOA (299.8m-1000kc), Hotel hints, Tues, Thurs, Fri.			
2:45	1:45	12:45	11:45
KUH (344.6m-670kc), Housekeepers' chat, Mon.			

"Aunt Sammy"

Eastern	Central	Mountain	Pacific
5:30 a.m.	6:30	7:30	8:30
WGS (315.4m-550kc), Mon.			
10:30	9:30	8:30	7:30
WCSH (499.7m-620kc), WBO (520m-570kc), Tues.			
10:30	9:30	8:30	7:30
WGL (409.7m-620kc), Mon, Thurs.			
10:30	9:30	8:30	7:30
WEO (299.8m-1000kc),			
10:30	9:30	8:30	7:30
WWS (440.9m-620kc),			
10:30	9:30	8:30	7:30
WWD (341.8m-1200kc),			
10:30	9:30	8:30	7:30
WRVA (256m-1170kc), Wed.			
10:30	9:30	8:30	7:30
KVWG (277.6m-1080kc), Mon, Wed, Fri.			

Eastern	Central	Mountain	Pacific
1:15 p.m.	12:10	11:10	10:10
KFO (428.3m-700kc),			
1:15	12:10	11:10	10:10
KFOA (454.3m-600kc),			
1:20	12:20	11:20	10:20
KPAU (280.2m-1070kc),			
1:45	12:45	11:45	10:45
WHAZ (365.6m-620kc),			
2	1	12	11
KOIL (305.5m-590kc),			
2	1	12	11
KMA (461.3m-650kc), KSL (299.8m-1000kc),			
2:30	1:30	12:30	11:30
WBR (272.6m-1150kc),			
2	1	12	11
WOC (483.6m-620kc),			
2	1	12	11
KFXP (447.3m-650kc), Tues, Thurs, Fri.			
2:30	1:30	12:30	11:30
WBO (520m-570kc),			
2:30	1:30	12:30	11:30
KFDY (299.8m-1000kc), Wed, Thurs.			

Women's Clubs

Eastern	Central	Mountain	Pacific
11 a.m.	10	9	8
WEL (139.8m-750kc), Women's club.			
11:30	10:30	9:30	8:30
WJZ (454.3m-600kc), Federated Women's club, Wed.			
11:30	10:30	9:30	8:30
WNAE (481.3m-650kc), Women's club.			
11:30	10:30	9:30	8:30
WLT (394.5m-750kc), Tues, Republican Women.			
11:30	10:30	9:30	8:30
WTO (416.4m-720kc), Republican club.			
11:45	10:45	9:45	8:45
WIAL (241.9m-1200kc), Mon, current events; Tues, economics; Thurs, art; Fri, books.			
11:45	10:45	9:45	8:45
WGN (302.8m-590kc), Women's club.			
11:45	10:45	9:45	8:45
WCCO (415.4m-720kc), Mon, Minnesota Federation of Women's clubs; Tues, League of Voters.			
11:45	10:45	9:45	8:45
WMAQ (447.5m-670kc), Illinois Federation of Women's clubs, Thurs.			
11:45	10:45	9:45	8:45</

GOODY GOODY GIRL

CHAPTER XIV

By MERLIN MOORE TAYLOR

Conclusion

AFTERNOON of the day following Lois' fall from the window. Her broken leg in its plaster cast was not paining greatly and Lois was doing the very thing which everyone with whom she had come in contact that day had bidden her not to do. She was worrying. Her accident, she was certain, would bring her life to a crisis. When she left the hospital in three weeks or so, the unpaid bill would be added to her other burdens. Her money was almost gone. Her services were not desired by anyone. Employment at housework, the only thing she knew well, seemed her sole prospect.

A gloomy outlook, at best. Marriage with Raymond Lancaster offered a way of escape. Mrs. Trickett, bustling down to the hospital with motherly solicitude when informed by telephone of her accident, had brought a letter from him, delivered at the house that morning. He had been called from town unexpectedly, would be gone several days. When he returned he proposed to take Lois to see his mother and sister. He inferred that he would not long be content without an answer to his proposal. He had enclosed an address at which he begged Lois to write him. Unable to do that, she had sent him a telegram telling what had befallen her.

"Altogether, I'm in a dickens of a fix," Lois told herself.

Abruptly her thoughts turned upon Herbie Coles. Poor Herbie! Incompetent Herbie! Born with a golden spoon in his mouth, taught nothing useful, given too much money, permitted to run wild, kicked out because he had become the inevitable result of such things. Now he was tasting the bitter dregs—penniless, unable to make a living, hungry to the point where he had broken the law to get food. Doubtless that very minute he was in the Bridewell, "making little ones out of big ones" as the penalty for smashing the food-shop window. Herbie, too, was at a crisis. A strong guiding hand was essential if he was not to go down in the gutter upon the brink of which he now wavered. Perhaps if she married Lancaster he would be willing to offer that hand to Herbie.

A SMILING nurse came in after supper to say that a gentleman had called to see her. Who, she wondered? Lancaster, home sooner than he intended? Her eyes turned to the doorway as the nurse threw it open.

"Herbie!" she cried, staring.

It was as if during the twenty hours that had elapsed since she last had seen him—staring in horror out of the window as she shot to the ground—a magic wand had been waved over him. He was hair-cut and shaved, his clothes pressed, his linens fresh, his shoes shined.

"I'm so sorry this happened to you, Lois," he said, coming toward the bed; "sorry you have to suffer because, as usual, I bungled things. I was trying to do what I foolishly thought best . . . trying to help you avoid—"

"I know and you're not to feel badly," she said. "Just now, I'm bursting to hear what's happened to you."

"I've grown up at last," he said, pulling up a chair. "I achieved that at one bound, in the seconds you were tumbling to the ground last night. It wasn't the police at the door last night. It was one of Victor Jermin's crowd . . . they had to have somebody to drive a truck in a hurry—"

"Oh, Herbie, you—"

"I did not. I told him to go—you know where. But his reason for coming after me, the fact that I knew how to drive, put something into my head. There was something I could do! Here I'd been trying to hold down jobs I didn't know anything about and all the time I'd been ignoring the one thing I could do well—drive a car."

"After I'd had you brought here—in a police ambulance, because I hadn't the money for anything else—and the doctor told me I couldn't see you until today I went away and you can well believe I was doing some tall thinking. I knew now it wasn't going to be any trick at all to get a job, only I had to look decent when I applied for one."

"YOU'VE no idea how easily you can do things once you set your mind and how then you begin to get the breaks, how everything seems to work in your favor. I went back to the hotel and had a bath. I knew one of the fellows down the hall who had an electric iron. I woke him up—he was rather peevish at being routed out at 2 o'clock in the morning but he let me have the iron—and I pressed my suit. I washed

out my other things and dried and pressed them with the iron. There's a barber college not far from there. They'll cut your hair and shave you free, just for the practice it gives the students. I was waiting on the doorstep when it opened."

"I knew where I was going, down to the agency for the Twinplex Six on Michigan Avenue. I know the Twinplex better than any other car. I ought to. I've had three of my own. My idea was that down there they'd be able to put me in touch with someone who needed a chauffeur. Right away that would mean a place to sleep, food—the things I needed most."

"It was a long walk down there and I wasn't exactly overfed. When I passed that place where last night I broke the window I got another idea. I went in, told the proprietor all about it, told him I'd pay for the damage as soon as I could—well, I got my breakfast out of it."

"I got down to the Twinplex place after a while. A sign 'Salesman Wanted' was in the window. So I went in and asked for that instead of the other. Got it, too, and, Lois, would you believe it? I sold a car this afternoon. Cash, too. Easy to get an advance from the manager then. So here I am, with a job I can handle, money in my pocket and—"

"OH, I'm so glad," cried Lois. "I think that, more than anything else, I'm glad that you've found yourself, that you have grown up, as you call it; become a man."

"You'd be surprised at all that has happened to me," returned Herbie Coles cryptically.

Herbie was a daily visitor at the hos-

pital. Sometimes he'd call up during the day and talk to her over the telephone that the nurse plugged in at her bedside. He brought her books, flowers, fruit, magazines—all the little things that tend to make a sojourn in a hospital bearable. In this he was not alone, however. Raymond Lancaster, out of the city himself, ran him a close race. He ordered similar things for her by telegraph, he sent her almost daily messages and, finally, after she had been there two weeks, he came himself.

She was propped up in bed when, unannounced, he came into her room. She dropped the book she had been reading and held out her hands with a glad little cry. He crossed quickly to her and took her hands in his own.

"Darling!" he said huskily. Then he bent over her and kissed her and, thrilling to the core, she kissed him back. In that moment she felt that if he asked her to marry him now she would say "yes." Perhaps she did love him, after all. She didn't know. If it wasn't love that she felt toward him, it was something as near like it as she could imagine. Perhaps her dreams of what love was like were things that were realized only after one was married.

LANCASTER had sat down in a chair beside the bed, pulling it up close with a toe hooked in a rung that he might not have to relinquish her hands.

"Now, tell me how this thing happened," he said after a bit. "You didn't give the details in that one letter you wrote."

A vision of Herbie Coles as he had appeared that night rose before her eyes.

LATE ARRIVALS AT THE RADIO MART



Walbert 47 for DX Fans

WHILE the chief tendencies among standardized commercial receivers during the past year or more have been towards simplification, such as one-dial control, it is beginning to be obvious that such simplification has already gone too far to satisfy the many listeners who want to squeeze the last possibility out of their Radio sets, both as regards distance and selectivity.

For example, it is obvious that, no matter how well operated any one-dial set may be, when there are three or more condensers in it, additional selectivity and therefore distance can always be secured by adjusting the condensers separately, rather than on one dial.

Acting on this assumption, the Walbert Manufacturing Company, manufacturers of the Isofarad Receiver, are offering particularly to the DX fans their Walbert 47, shown above. This set has a separate dial for each condenser, four in all, and each is a vernier with the most delicate adjustment. There are seven tubes, of which three are audio and three radio frequency.

It is claimed that this set is the last word in a commercial receiver for cutting through local stations and securing distance. While the four dials give the fan everything he could ask for in the way of delicate tuning, the set in itself is not at all difficult to tune.

This receiver is based on the famous Isofarad bridge circuit and is the set which the Walbert Manufacturing Company recommends from their line to any one who lives where broadcasting conditions are difficult, whether the difficulty be a congestion of broadcasting stations or a necessity for securing great distance owing to being situated where stations are far away. The set has built up a very enviable reputation in the two most congested Radio centers in the United States, that is, New York and Chicago, as well as the far west in New Zealand, Australia, and the Orient. Broadcasting conditions in New Zealand, for example, are particularly difficult since the receiver has to be

most accurately tuned and very sensitive in order to secure programs from Europe or America, and yet the Walbert 47 has been doing this regularly and consistently.

Subantenna System



SUBANTENNA shown here-with, is a remarkable improvement over the overhead aerial systems used by the majority of listeners. As Radio Digest has maintained again and again in articles dealing with buried antennas, it will absolutely reduce static interference and increase selectivity.

While, of course, the incoming signals are somewhat weaker from having been picked up from out of the ground, still, after passing through the average receiver of today connected to a Subantenna, one can hardly tell the difference in the loud speaker volume. Much "man-made" interference, such as power line hum, is also removed by the Subantenna system.

In any event the almost perfect freedom from atmospheric, and the selectivity increase, are making the Subantenna a very popular device.

Subantenna is not only a wire—it is a specially treated wire, sheathed in lead and containing three specially designed "pick-up" coils. The device is manufactured and sold by the Cloverleaf Mfg. Co. of Chicago.

She just couldn't bring herself to describe him—wretched, desperate, starving—to Lancaster. That page had been turned. It was not up to her to open it again.

"I saw Herbie Coles going into a little hotel over on Clark street," she began. "There was something I wanted to see him about, so I followed him in. The clerk sent me right up to his room—"

Lancaster's grip upon her hands tightened, his eyes narrowed and bored into her own like gimlets. She plunged bravely on with the story . . . the knock on the door . . . Herbie's insistence that she must not be found there . . . her agreement to leave by the window . . . the undoing of the knot . . . her fall—

Long before she indicated she had finished the story the suspicion in his face had hardened his features to something terrible to behold and he had dropped her hands abruptly as if suddenly they had become red-hot.

"Good God! Do you expect me to believe that story?" he burst out. "Do you expect me to swallow your evasion as to why you went to his room . . . in a sordid little hole like that . . . at night . . . why a knock on the door—"

"THE story is true. The things I have left out are not my secret. They belong to Herbie Coles. If he chooses to tell you—"

Lancaster laughed hollowly. "Do you think he'd tell, either?" he demanded and there was the trace of a sneer on his face.

"I shouldn't blame him if he did not, if he told you it was none of your business."

Lancaster suddenly ceased his agitated striding up and down the narrow room. "Look here, Lois, I've told you I loved you. I think, if you'll but admit it to yourself, you love me. I've asked you to be my wife, but unless you're willing to clear up this thing, tell me every detail for which I've asked—"

"I can tell you no more than I have." "Then, by God, I don't want to marry you."

"It would be a mistake," she said evenly. "Any marriage is a mistake that is not founded upon faith and trust as well as love. Twice now, in spite of your protestations of love, you have shown that you lack the other requisites. Once you condemned me, unheard, on the word of a man like Neil Becker. Now you condemn me because I won't tell what I have no right to tell. You don't believe in me enough to realize that if I had wanted to conceal anything I should have certainly concocted a better story than the one I have told you. You won't take my word for it that between me and Herbie Coles there is not, has not been, anything wrong. Now—I think you had better go. And—goodbye."

He picked up his hat and started for the door. He had it half-opened when he whirled and once more came toward her.

"Lois," he said pleadingly. "I'm giving you one more chance. I'm telling you again that I love you. I'm a one-woman man. I've never told another woman that I loved her. If you let me go now, though, I shall not come back. Tell me what I want to know, what I must know if I am to marry you. Tell me why you went to Coles' room—"

"No," she said firmly. "I shall not tell you."

"BUT I shall," said a voice from the doorway. Herbie Coles came in, carefully closing the door behind him. "You say you love her, Lancaster. I believe it. I think she loves you, too. If all that stands between you is her refusal to tell why she was in my room—"

"Wait!" The girl spoke commandingly. "You needn't tell him anything. If he can't take me on faith, if he can't believe me that I am straight—even Victor Jermin was willing to grant that—then he can go."

"I won't have your lives wrecked," Herbie insisted stubbornly. "I won't have you unhappy, Lois. God knows I mean that, for, you see, I love you, too. Oh, you needn't be afraid of me as a rival," as Lancaster started. "I'm not trying to speak for myself now. I know I'm not fit for her to wipe her shoes on. I'm speaking for you because I want her to have you if it will make her happy. You want to know what she was doing in my room? Very well, I—"

Lancaster listened attentively to the story, nodding as everything was made clear to him. When it was finished he shot out a grateful hand. "You're a real man, Coles," he said. "Not many chaps, loving her as you say you do and seeing a chance to get her, would have done what you have. From the bottom of my heart I thank you."

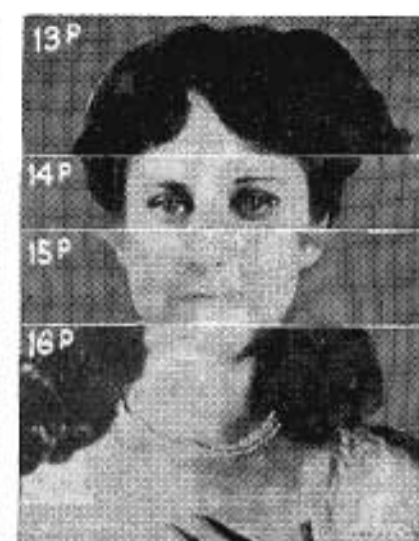
Herbie Coles wrung his hand and turned stumbling to the door.

"You foolish, foolish girl," said Lancaster tenderly to Lois. "You dear, kind-hearted, adorable darling—"

Herbie choked down a sob and laid his

(Continued on page 29)

SIXTH WHOZITS ARE HERE—TWO YET TO COME



The following artists are in above panel: Byrd Rigaby, KTHS; Leona Iatone, KTHS; Helene Costello, KFVB; Dolores Costello, KFVB.



The following artists are in above panel: Morrill Moore, WHB; Eugene Enzinger, KMOX; Earl Thurston, KVOO; Edward Stockman, WSM.



The following artists are in above panel: Anna Beckman, KMOX; "Dinah," KVOO; Mildred King, WSM; Lela Ward Gaston, WHB.



The following artists are in above panel: Luther J. Jensen, KJR; Charles Fitzgerald, WJR; Al Cameron, WJR; Jan Naylor, KJR.

1927 De Luxe: the Finest Super

PART II: Connections Are Numerous on This Far-Reaching Receiver, But Assembly and Wiring Are Not Difficult.

By MARVIN W. THOMPSON

ALL PANELS DRILLED AND READY FOR USE, \$10

THE GREAT POPULARITY with which the "1927 De Luxe" super has been greeted has made it possible to offer the Formica walnut front panel, Formica black sub base panel and the intermediate mounting strip (described in this article), COMPLETELY DRILLED and ready for assembly at a total cost of \$10, which includes postage. Inasmuch as the three undrilled panels would cost more than \$9, this offer should be eagerly accepted by all builders. Order direct from the Starvet Mfg. Co., attention of Mr. Schrader, 223 E. Green St., Chicago, or from the Radio Digest Shopping Service.

THOSE who follow these instructions through are going to have the last word in the way of a receiver; one with stations well spaced out due to the straight frequency line condensers, and a full, round, powerful reproduction that few manufactured sets can approach. That is one point the home builder of a large set has on the purchaser of a manufactured one; he can incorporate the latest features he desires and use parts of the finest quality.

The first step in the building of a receiver is the drilling of the panels. At this point you have your choice of two methods of procedure; you can either enlarge the drilling layouts of Figures 4 and 5 to full size on wrapping paper, or send 50c in stamps or money order to Radio Digest for full size layouts which you have only to secure to the panels and center punch at each hole mark. Frankly, unless you have a slight knowledge of mechanical drawing, I would advise sending for the Radio Digest templates.

Marking Holes and Drilling

Presuming now that you have either your enlargements or the Digest templates before you, put a touch of paste at each of the four corners on each and place them squarely on the panels. When this has dried sufficiently so the templates will not slip, you are ready to center punch. If you haven't a center punch, use a well-sharpened awl. A light touch with the hammer is enough to make a small hole in the panel surface; just enough that the point of the drill can be placed in it.

On the front panel first drill the four small holes with a 1/32-inch or No. 27 drill. Two are found in each of the lower corners. Then drill the five holes requiring an 1/16-inch drill, the one requiring a 1/8-inch and the two 1/4-inch holes can be drilled.

This leaves but the meter hole. The Jewell Electrical Instrument company makes a special panel cutter for cutting such holes, but personally I have always used the system of drilling a ring of small holes, and filing smooth. Using the center punch mark as a center, draw a 2-inch circle, either with pencil compass or metal point "dividers." Then, with the 1/32-inch drill, put in a ring of small holes just inside the circle so that the outer

edge of each small hole just about touches the circle and each hole just meets the next. When you have gone clear around, it is easy to knock out the disk. With a fairly coarse, half-round file, smooth the jagged edge to the drawn circle.

Drilling the Base Panel

The sub base panel offers no complications other than the 1-inch holes for the sockets. On the drilling layout, all mounting holes except those for sockets and

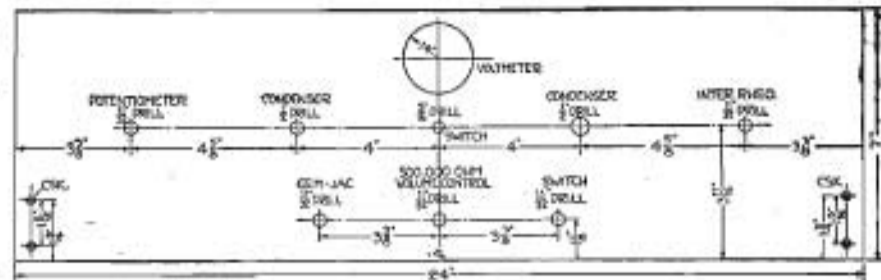


Figure 4—Front Panel Drilling Layout

makers of the well known socket wrenches. These holes also can be made by drilling circles of small holes and filing smooth. The 2-inch hole at the right end of the sub base for the second meter is put through just as was the 2-inch hole on the front panel. There remain

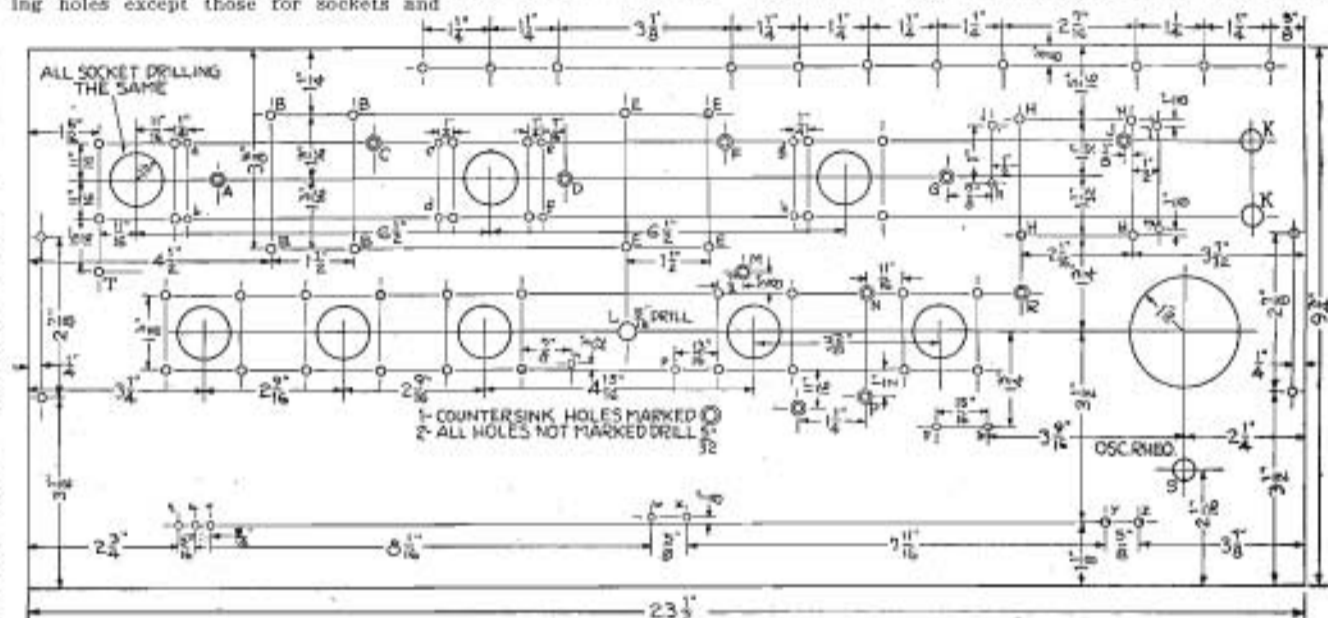


Figure 5—Drilling Layout for Sub Base Panel

brackets have been marked with capital letters, while holes through which wires will pass are identified by small lower-case letters. The socket terminal holes, of which there are four around each 1-inch hole, the bracket holes at each end of panel, and all holes marked with capital

but four holes; two at the rear right corner for the loud speaker cord tip jacks, one in front right corner for the oscillator rheostat, and one approximately in the center of the panel for the loop regeneration condenser.

In Figure 6 we have the layout for drill-

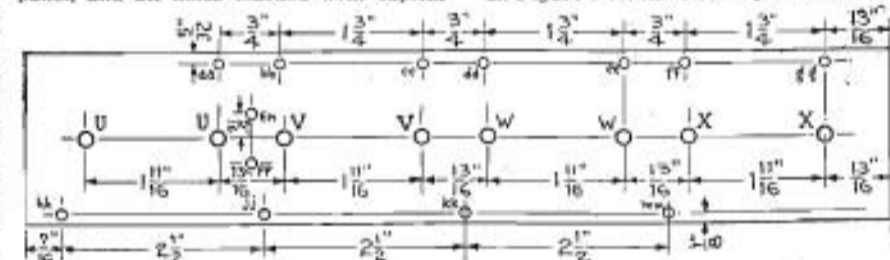


Figure 6—Layout for Intermediate Mounting Strip

letters are now drilled with a 1/32-inch or No. 27 drill. Those marked with double circles are countersunk. Then the wiring holes are put through with a 1/32-inch or 1/4-inch drill.

A 1-inch panel cutter for the eight socket holes can be readily obtained. I use one made by the Stevens company,

ing the small mounting strip that goes beneath the sub base to hold the St. James intermediate transformers. This can be made of Bakelite, wood or wall board, but preferably the first named. As shown here, it is as it will be placed in the set, looking from the rear. The transformers will be placed on the other side.

the same side of the strip as the transformers and project forward on the under side of the sub base panel. The front face of the strip is to be 3 1/4 inches from the front edge of sub base and the left end is 1/16 inch in from left edge of sub base.

With the drilled strip held in front of you, in just the position shown, place an intermediate transformer on the back so that its mounting holes line up with mounting holes U and V, and with its terminals G and P at the top. Now mount the other three transformers behind holes VV, WW and XX; always keeping G and P at the top. Now get this point carefully.

Intermediate Wiring Trick

A soldering lug is to be placed under the head of the screw on one side and the nut on the other side (a lug on each side), of the following machine screws used for mounting transformers. Going across from left to right, do this on holes 2, 3, 6 and 7. Later we will bring a wire up to the screw on one side, and another wire up to it on the other side, and use the crew for taking a circuit through the strip.

Now slip soldering lugs on each P and G terminal and secure them so each is over a wiring hole. This applies to all except the first of these terminals to the left which is a P terminal. Now cut seven Celanese wires each 1 1/2 inches long, remove the insulation from one end of each, insert them through the seven P and G wiring holes, and solder to the lugs you have just put on those terminals. The complete intermediate strip is now ready to place on the sub base in the position given four paragraphs back.

Assembly of Sub Base

Sockets can be mounted on the sub base first. This is done by removing the black screw in the center of the under side of each; the cover goes on top of the sub base and the springs go beneath. When mounting the front row of five sockets, the P and G terminals go toward the front of sub base while the rear row of three sockets are placed with P and G to the rear.

Now mount .0025 mfd. Sangamo fixed condenser, with grid leak clips in place, under hole T; place a 1-A Amperite under hole A, another under hole D, the 112 Amperite under hole G and the last 1-A Amperite under hole M. The .006 mfd. fixed condenser goes under hole P. Now mount the 20-ohm rheostat under hole S with terminals to the left. The milliammeter also can be put in place at this stage.

Going now to the upper side of sub base, secure a Ferranti on holes B, B, B and B with H. T. (H. T. means High Ten-

(Continued on page 29)

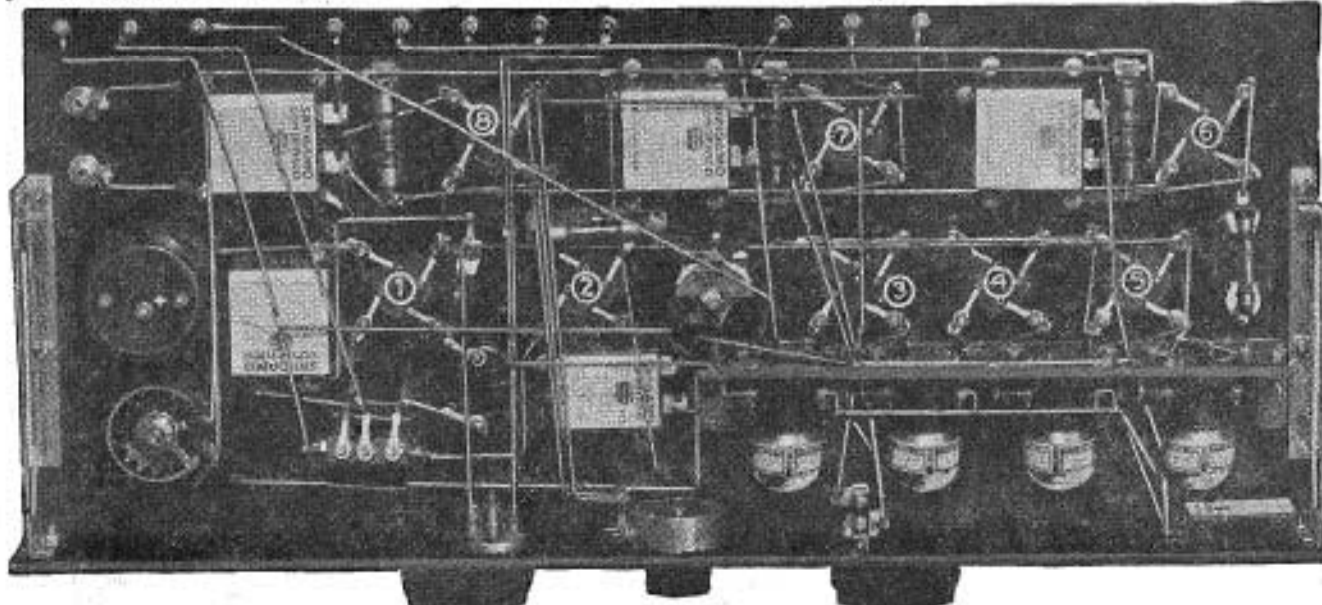


Figure 7—Bottom View of Completed Receiver Showing Wiring and Numbered Sockets

\$26,000.00 IN PRIZES FOR SOLVING "WHOZITS"



The following artists are in above panel: Irene Weber, WSOE; Marjorie Mills, WNAC; Helen Casey, WNAC; Louise Harris Hoover, WSOE.



The following artists are in above panel: Johnnie Day, WOC; L. H. Chernoff, KOA; Alfred C. Bruzlin, WOC; Clarence C. Moore, KOA.



The following artists are in above panel: Eva Carol Roark, WLW; Marie Kiemy, WOW; Grace Pool Steinberg, WOW; Norine Gibbons, WLW.



The following artists are in above panel: Harry Kohn, WMC; Larry Kelly, KPRC; Frank Bracciante, WMC; Frank Tilton, KPRC.

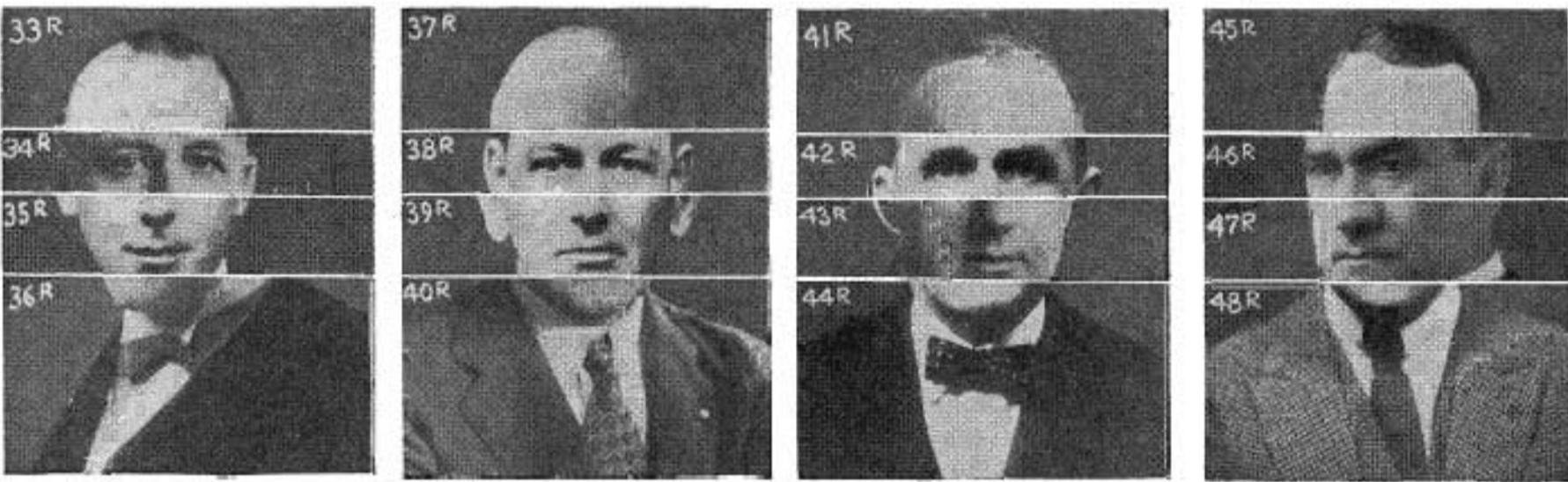
ASSEMBLE THESE PICTURES OF RADIO ARTISTS



The following artists are in above panel: Cecile Steiner, WPG; Mildred Windell, WMCA; Margaret Irwin Cross, WPG; Nora Lovern Swagler, WMAK.



The following artists are in above panel: Austin Rahe, WMCA; Charles Morrison, WJAX; Herbert Jones, WMAK; T. C. Imeson, WJAX.



The following artists are in above panel: G. Bourke, CKY; Dr. Phillip Robert Linsey, WHK; S. Loughnan, CKY; Francis J. Sadlier, WHK.



The following artists are in above panel: Mrs. Sidney Butler, WASH; Dorothy Zion, WHT; Gertrude Vanden Bosch, WASH; Grace Wilson, WHT.

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Sue Slovenly Electric Companies

IN TAKING its National Survey of Radio Interference, Radio Digest discovered that by no means was the non-inductive Radio interference problem solved. By this we mean that thousands upon thousands of listeners complained that sign flashers, oil burner and other types of motors, old fashioned street lighting systems, x-ray machines, home generating and lighting plants, faulty trolley rail bonds, leaky insulators and transformers on electric power lines, etc., were creating interference that could not be tuned out and ruined their reception.

Radio clubs, sometimes cooperated with by farsighted utility companies, have done much in the larger communities to end these nuisances. It has been demonstrated that proper equipment, correctly applied, does not allow the disturbances to go out upon the ether.

Still, many electric lighting and electric railway companies have not given this much-needed cooperation. Some utility companies have deliberately remained adamant despite the pleadings of scores of listeners.

To these companies, this editorial is addressed.

A dispatch from Milwaukee tells of the victory of one Peter J. Walter, who won \$2,000 damages in the State Supreme Court from the Milwaukee Electric company on the grounds that a high tension line near his home made it impossible for him to tune his set properly.

Let that be a warning to such interferers. What can be done in Wisconsin can be repeated in Maine or California. We respectfully suggest that listeners organize Radio clubs to push test suits of this nature through the supreme courts of every state.

Station Mortality High

TELEGRAM reading, self-applauding, dedicating broadcasting stations who feel so essential to Dame Nature's scheme of things, should turn the telescope around periodically and find out how unimportant they are. Public favor is a peculiar thing. For many moons it will be attached seemingly to an enterprise—and then, suddenly, it will depart, never to return.

Public favor and hence support is the foundation of American broadcasting. That is why we dwell at length on this subject. Heterodyning, interfering stations with poor excuses for existence may well look the problem full in the face—and get off the air!

Without even a law or form of control, the economics of broadcasting would govern the situation nicely. Unless a prospective broadcaster has a real service to render, a service comparable with the best on the air today, he would do far better to pay an experienced station for time on the air and let the staff of that station handle the program in an accepted fashion. Thus he would be assured of success. Going ahead and erecting his station, he would be taking a big chance—the chance that he would not be in public favor—the chance of failure.

Read what an Australian survey of American broadcasting, taken recently, reports:

"Since 1920 over 1,400 broadcasting stations have been licensed in the United States. Of these, no less than 870—over 62 per cent—have gone out of business. Two main reasons are given. The first is the financial difficulties experienced in running the stations. Nearly 50 per cent of the 870 disappeared from the air on this account.

"It only goes to show that broadcasting is not a business that everyone can manage; there must be an understanding of the requirements of listeners and of the expenses to be incurred in providing a service that will endure.

"The second main reason advanced for the failures also proves this. About 20 per cent of the proprietors of stations retired from the business because they realized that they were not giving as satisfactory a service as their competitors. They found that the 'Message' they desired to put over, could be done better by people who understood the business, and who consequently had many more listeners. It was more economical to pay another station to broadcast their advertisements and propaganda."

RADIO INDI-GEST

Quiet in the Bunk House

By Vivien W. Nordquist

There's a quiet in the bunk house that was never known before. Every man is sittin' silent, Pronto Johns guards the door. Makes you lonesome for the cussin' and the laughin' that ain't been since the Radio struck Windswept, and they started tunin' in.

If you want to start some bloodshed, all you got to do is sneeze. You should see their indignation, and if glances they could freeze you would find you'd need a sheepskin, and a pair of woolen mitts. Interruptions are not welcome, and the boys throw forty fits.

If a sound disturbs their concert, they are gettin' highbrow too. Listenin' in on oree singers when their daily work is through. There's a gal from Minnesota with a voice that makes you cry. She is Ollie Jensen's favorite; she's a Swede, so that is why.

Bobcat Jim allows that music's better far then shootin' craps. Tightwad Hank says he feels better since he started takin' naps. While they're playin' dreamy waltzes, that if he were asked to choose.

Which would be the worst, he wonders, cash or sleep to have to lose.

Dick the Dodo, who hails from Kansas, says it's very hard to find Entertainment in this country that will alleviate your mind. Dick is mighty strong for culture, and we feel that he should know Comin' from an eastern homestead, and we up and told him so.

There is always somethin' singin', or a playin' that's just right. It don't matter what your taste is, 'cause it's different every night. There's no card games in the bunk house, gone is all the noise and din.

Yet there's no one who ain't happy, 'cause the boys is tunin' in.

Supreme Bill Knew All About It

Dear Indi: Several of Shakespeare's works contain phrases that intelligently anticipate the coming of Radio. If you don't believe it, read the quotations below with their authority, and the application which Bill S. probably had in mind. (Don't strike me—stop—yes, yes, I admit that the applications are my own!)

"'Tis no matter how it be in tune, so it make noise enough."—As You Like It. (Said by the owner of most any station today.)

"My ingenious instrument! Hark, Polydors, it sounds."—Cymbeline. (He built it himself!)

"His lecture will be done ere you have tuned."—Taming of the Shrew. (This is the appellation.)

"And those musicians that shall play to you hang in the air a thousand leagues from hence."—Henry IV. (Or, at least, many of the fiddlers and saxophonists should hang.)

"Yet now—no matter—ah, stand by."—Antony and Cleopatra. (The SOS signal is heard.)

"This union shall do more than battery can."—King John. (Mr. Bal Kite shows his first to the "storm-and-strike.")

"Then my dial goes not true"—All's Well that Ends Well. (Proving that 5 and 10 stores were handling Radio in those days.)

"Keep not too long in one tune, but a snip and away."—Love's Labor Lost. (They had Blooper Pests then too.)

"If I begin the battery once again, I will not leave."—Henry IV. (Evidently a hard-boiled DX listener.)

"Poor gentleman, take up some other station; here's no place for you."—Coriolanus. (To unsuccessful applicant for announcer's job.)

LONDON BOBBY.

NuSrIe RiMES

THEIR wuS an AnnuSncer wHAt LIvEd In a SHoo, x5%,
He GOTT so MannEy LecturERS he dEd nOt No what
Too Don't.
SoO HE StARted too RedDe Em oAver tHeS Mike, /...
& wE gott DeSgustedd & quITt IeR TheS NiTe.
Yours turLis,
OLD KING TUTT.

His-self.

The Broken Melody

Dear Indi: Radio has certainly done a lot to lighten the lot of the egg-collecting artists of the vaudeville shows and concert halls. The "Mike" has replaced the audience and the artist is no longer in danger. However, when he practices at home this sort of thing is still liable to happen:

Cornet solo.....Flat upstairs,
Man below.....Stamps and swears,
Poker handy.....Temple sharp,
Cornet changed.....For Golden Harp!

MAN BELOW

"If"

(With apologies to Mr. Kipling.)

If you can keep from existing when the static comes in strong,
If you can stand the whistling tubes that drown out some good song,

If you can cheer your neighbor when he gets a station new,
If you can work, and sweat, and sleep, until you get it, too,

If you can find Jack Little when he changes every week,
If you can quiet your family while the new announcer speaks,

If you can stand grand opera when you want to get a dance,
If you can tell a station from the letters as a glance,

If you can listen half the night and next day still feel grand,
Then there's no help for you, my friend, for you're a RADIO MAN.

A. G. N.

"Well, Whattaya Gotta Say About It?" will not discuss the wave grasshopper subject, as previously announced for this issue. The Radio Digest got wind of this great question of moment and beat us to it last issue wherein pro and con, accent on the guess-which, Henry and all the boys were very, very and amply much discussed. But just watch for the Mid-February number of Radio Indi-Gest. All about the direct-from-a-cake-of-ice-wire broadcasting of the crossing of the Delaware by one G. Washington. Would he permit it? You'll find out.

And now, send in your dishonest opinions on the subject up to hat for the First March issue so we can have time to look 'em over, drop in and take out a few commas, and, of course, may them funny (?). Read this vital topic over, and think, THINK about it!

"Who is this here Mary Lou, anyhow?"

INDI.

The Retreat

TRANSATLANTIC
TELEPHONE
CONVERSATION
VIA RADIO



Condensed BY DIELECTRIC

No one cares what color distinguishes one chain of broadcasting stations from another—blue, red, green or ivory, and likely as not blue listeners will see red whenever any advertising feature is presented through whatever "chain." It remains a fact, however, that through the stations forming the links in both the Red and Blue chains some very high class entertainment is going out to millions of listeners in this country and Canada.

Rather an interesting and pleasing program was that broadcast from Station WFAA, Dallas, Texas, on a night when your reviewer had the good fortune to find them—not in—but through interference. A baritone of fair attainment sang several songs familiar to most of his auditors by virtue of the fact they appear on many programs; yet his work was very acceptable. The pianist of this group of entertainers selected as one of his numbers Massenet's Elegie, embellishing the piece with a wealth of arpeggios, thereby improving or detracting from the composer's work as the individual listener chooses to think. Not the least contribution to the program was the organ recital, to those captivated by the wonderful effects obtainable with this instrument.

From the studio of Station WLW, Cincinnati, Ohio, we elect to mention a diversified program encompassing most of popular appeal. Many of the old time favorites were sung or played and it is appropriate to state in this connection how universal is the appeal of these homey songs. Violin selections added considerably to the general interest, while the inclusion of the latest song hits merely hastened their demise. The true test of any bit of music is its longevity and we have such examples of short-lived, and again permanent compositions in the old masters and in such songs as Annie Laurie, Home, Sweet Home etc.

Station WNAC, Boston, comes over now and then with programs listing features of unusual attractiveness which nearby listeners may enjoy to the full and, with no interference from other stations, those more distant also. This station was coming in with great volume and clarity when our old friend WSB, Atlanta, Georgia, took the front of the stage and retained it. The Jewel song from the opera Faust had just received excellent treatment from a soprano at the time this happened and we were requested to judge of the comparative values of various singers' voices from the standpoint of their reception via Radio. Not having the pleasure of listening to the entire group, I should nevertheless unhesitatingly place this soprano in the preferred class. A tenor immediately preceding the lady would not receive my votes, although he sang with expression one of Oley Speakes' songs.

When may we have the regulation needed to clear up the air so desired programs can get through to waiting listeners?

For all revelers in Hawaiian music, WCCO of Minneapolis-St. Paul did its best to please in a program majoring in that particular style. What else they had for listeners to enjoy only those able to hold the station can say. I think a column will be devoted to fragments heard from programs interlocking with an exact valuation of each fragment as it sounds entangled with other programs. Instead of wearing away one's nerves trying to catch a feature through a maze of interference, then attempting to give it just review, either tune to non-interfering stations only or precisely those parts heard without effort.

AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

Table listing radio stations by call letters, location, and broadcast times for various days of the week.

STATIONS IN ORDER OF WAVE LENGTHS

Table listing radio stations in order of their wave lengths, with columns for meters, call letters, and frequency.

New Stations

New stations licensed by the department of commerce last month include: WLBY, Iron Mountain, Mich., 249.9m-1200kc; WAOA, Ozone Park, N. Y., 247.8m-1210kc; WMSA, Newport, R. I., 249.9m-1200kc; WLBX, Long Island City, N. Y., 230.4m-1300kc; KKP, Seattle, Wash., 260m-1153kc; WLBU, Canastota, N. Y., 290m-1363kc; WLBUZ, Dover-Foxcroft, Maine, 299m-1003kc; KROW, Portland, Maine, 231m-1298kc; WLWB, Oil City, Pa., 221m-934kc; KGDW, Humboldt, Neb., 241.8m-1240kc; KGEF, Los Angeles, Calif., 216.9m-580kc; WABQ, Philadelphia, Pa., 260.7m-1150kc; KMED, Medford, Ore., 250m-1199kc; WLBT, Mansfield, Ohio, 230.6m-1300kc; WLBT, Crown Point, Indiana, 220m-1304kc; KGEK, Yuma, Colo., 252m-1190kc; WJAY, Cleveland, Ohio, 455.7m-633.1kc; KGEH, Jamestown, N. D., 225m-1333kc; KGEH, Eugene, Ore., 226.1m-1270kc; KOMO, Seattle, Wash., 205.9m-580kc; WGL, New York, N. Y., 242.4m-678kc; WMBD, Peoria Heights, Ill., 279m-1075kc; WSIX, Springfield, Tenn., 250m-1199kc.

839.4kc; WSBT, South Bend, Ind., from 215m-851.5kc to 316.6m-950kc; KYI, Tacoma, Wash., from 242.5m-1237kc to 342.5m-875.4kc; KJBS, San Francisco, Calif., from 224.2m-1280kc to 226.4m-1360kc; WBRU, Tilton, N. H., from 265m-821.4kc to 450m-718.9kc; KLZ, Denver, Colo., from 245.3m-1120kc to 284.4m-730kc.

The Illinois Stock Medicine Broadcasting corporation of Quincy, Ill., has purchased station WTAD. The Paget Sound Radio Broadcasting company, Seattle, Wash., originally broadcasting under the call KGEA, is now using the letters KUJ and operating on 352.5m-850.6kc. WWAB will broadcast in Chicago hereafter and will be operated by the Grand Rapids Furniture company. The wave length used is 241.5m-1240kc.

KGCI, San Antonio, Texas, is now operated by KGCL KFEG, formerly of Oak, Nebraska, has moved to St. Joseph, Mo., and is owned by the Scroggin and company bank. The Union Course laboratories at Woodhaven, N. Y., have changed both call letters and wave length. WSON takes the place of WJWB and 288.3m-1040kc takes the place of 449.9m-638kc.

The following stations have changed their wave lengths: KRLD, Dallas, Texas, from 353m-849.1kc to 357.1m-

Advertisement for Little Jack Little featuring a photograph of the artist and text promoting free photogravures of his work. Includes a coupon for requesting a photogravure.

MANY CHAIN FEATURES ATTRACT; WLW

HIGH LIGHTS OF THE AIR

"NISHEL NUTS!" Not something to eat; nor anything to drink, though they will make you laugh; nothing more nor less than new words, coined specially for the 200,000 boys and girls who are members of Topsy Turvy Time club of WMAQ. A "Nishel Nutter" whose production is accepted for use on the air receives a diploma.

Gigglebugs, another peculiar species of genus homo, may be found at WMAQ, Buffalo, N. Y. This funny tribe is composed of Whootters who cut up and have a great time on Tuesdays at half past midnight.

Wednesday, February 2, at 6 p. m. WLW commences a thirty-hour program in honor of its sixth anniversary. WLW is one of our pioneer citizens in the ether world.

Professor Gillen of the U. of Wisconsin, who has been reading and interpreting classical bits of literature over WHA, will give readings Wednesday, February 2, from Hamlet, and February 9 from Macbeth.

The continuity programs at WBAL have attracted listeners from all parts of the United States. Friday, February 4, the title of the musical scenario is "Melodies of Not so Long Ago."

Walter Damrosch, whose explanatory dramatic recitals have been so much enjoyed over the WPAF chain this winter, is an authority on the

music of Wagner. Saturday, February 5, he will play and interpret Acts I and II of the "Meistersinger."

Light operas are popular programs. February 7, WJR puts on "Ruddigore," by Gilbert and Sullivan; February 14, "The Spring Chicken" by Caryl and Monckton. The singers taking part in these productions are among the best vocalists in Detroit. Isabel Hunt Fuller, soprano; Carmen Morelock, contralto; Harry Parker, tenor, and H. D. Vocum, bass, are the leading singers.

"Doing Paris by Night" with Mrs. Harry T. Sanger as director, promises to be one of the most interesting tours provided so far for the listener on the Sanger travelogues given each Tuesday night from WSDC. To make a real night of it Mrs. Sanger will take in the entire round of famous cafes, including the Montmartre.

Twenty-eight distinct features, in which 361 people will take part, will be broadcast by WTIC, Hartford, on its second anniversary, Thursday evening, February 16. The program which begins at 6 p. m. and continues until 2 the next morning will be picked up from eleven remote controls.

An interesting broadcast to artistically inclined listeners will be the tour of the Milwaukee Journal Art gallery with Fannie Stover as a guide. Musical selections will be played by the studio trio.



"Tillie at the Photographers" is always in demand, when Gertrude O'Neil Ganley goes. Ganley appears at the right in the very first ologue. At the left is another famous microphone for two years has been the leading lady at Back to Old Virginny"—J. Harold Lawrence, be playing anything else, for they are broadcast

How To Use Programs

WHILE the previous arrangement of advance programs was thought suitable and convenient for listeners, Radio Digest has found that it was not intelligible to many readers. The arrangement hereafter, beginning with this issue, will be as found below.

The programs are listed starting with the date of issue of Radio Digest. In this case it is Tuesday, February 1. First are given the "Headliners" or best programs to listen to on that date. Then the "Regular Tuesday Features" follow. The "Tuesday Silent Night" stations are listed at the foot of the "Regular Tuesday Features."

Wednesday, February 2, immediately follows and is arranged in the same fashion as Tuesday, February 1. Thursday, Friday, Saturday, Sunday, and Monday, February 3 to 7, respectively, come next, and are likewise arranged as described.

BUT for the remaining days of the semi-month, February 8 to 14, inclusive, no "Regular Features" or "Silent Nights" are shown. The reader is referred back, at the end of the "Headliners," to the respective date under which this information is first given.

For example, under the "Headliners" for Tuesday, February 8, will be found the footnotes, "Regular Features and Silent Nights are the same as for Tuesday, February 1, and will be found by referring back to that date." This note explains itself.

There is no need to waste space by repeating the regular programs for a given day of the week when these programs are the same as for that day the week before. Where there is a difference the "Headliners" will show it.

By this simple space-saving trick, Radio Digest can give much more complete programs than was possible a year ago, and using but few additional pages.

TUESDAY, FEBRUARY 1 Headliners

Eastern	Central	Mountain	Pacific
WTIC (475.9m-630kc) Trinity college course, 7:30	6:30	8:30	4:30
WGV (379.5m-730kc) address, "Great American Foreign Policies," 7:45	8:45	8:45	4:45
WERJ (271.6m-510kc) Michel Bostempo, baritone, 8	7	8	5
WFAA (475.9m-630kc) Southern Methodist University School of Music, 8:30	7:30	8:30	5:30
WRNY (379m-730kc) Shakespearean program; Merry Wives of Windsor, Hamlet, Romeo and Juliet, Othello, Henry VIII, Midsummer Night's Dream, 8:30	7:30	8:30	5:30
WTIC (475.9m-630kc) "A Cross Section of Industrial Conditions from Coast to Coast," 8:15	7:15	8:15	5:15
WFRJ (222.6m-510kc) Giles O'Connor, 8:30	7:30	8:30	5:30
WSDC (288.3m-540kc) Sanger travelog, "Regland," 8:30	7:30	8:30	5:30
KFBI (268m-510kc) The boys of 496, 8:30	7:30	8:30	5:30
KOIL (359.9m-690kc) Ukulele Kads, 8:30	7:30	8:30	5:30
WLAS (399.8m-730kc) Carl Ziegler's Melodists, 8:30	7:30	8:30	5:30
KLDS (449.9m-690kc) Hazel Cook, organist, 8:30	7:30	8:30	5:30
KOIL (359.9m-690kc) Mrs. Fremont Benjamin, 8:30	7:30	8:30	5:30
WBBR (415.4m-720kc) "Listening In," 8:30	7:30	8:30	5:30
WCRD (384.6m-670kc) ensemble and celestial bells, 8:30	7:30	8:30	5:30
WERJ (222.6m-510kc) Amy Butler, character comedienne, 8:30	7:30	8:30	5:30
WIP (458.2m-690kc) "A Book and an Easy Chair," 8:30	7:30	8:30	5:30

Eastern	Central	Mountain	Pacific
KPRC (299.1m-500kc) "Sweetheart of the Air," 10	8:30	7:30	6:30
WFAA (475.9m-630kc) Four Hostesses, 10	8:30	7:30	6:30
WHB (355.6m-630kc) Ararat Temple Shrine Seminars, 10	8:30	7:30	6:30
WTIC (475.9m-630kc) Club Palais Royal orchestra, 10:28	9:20	8:20	7:20
WMAQ (447.5m-600kc) Sberwood Choral society, 10:30	9:20	8:20	7:20
WHE (315.1m-500kc) O'Brien's Pennsylvania orchestra, 11	9	8	7
KTAB (302.8m-500kc) "Fifteen Minutes" with Stereo Collectors, 11:15	9:15	8:15	7:15
KTAB (302.8m-500kc) KTAB quartet, 12:30 a.m.	11:30	10:30	9:30
WMAK (285.3m-510kc) Whozit Gigglebugs, 12:30 a.m.	11:30	10:30	9:30

Regular Tuesday Features

Eastern Time Stations	Central	Mountain	Pacific
CKAC Montreal, Que., Can. (419.7m-730kc) 7:15 p. m. dinner concert; 8:15, pop; 9:30, bridge; 10:30, dance program.			
KDKA Pittsburgh, Pa. (389.1m-570kc) 8:15 p. m. little symphony; 7:45, address; 8, program; 8:15-9, WJZ; 9, concert; 10, WJZ; 11:35, Grand theater.			
PWX Havana, Cuba (356.8m-750kc) 8:30-11:30 p. m. program.			
WBAI Baltimore, Md. (246m-420kc) 6:30-7:30 p. m. dance orchestra; 7:30-8, quartet; 8:30, trio; 9:30-10, jubilee singers; 9:30-10, instrumental music; 10-11, Municipal band of Baltimore; 11-12, dance orchestra.			
WBRR New York, N. Y. (414.4m-720kc) 7:30 p. m. program.			
WBB Boston, Mass. (348.6m-600kc) 7:30 p. m. inter-collegiate broadcast; 7:45, specials; 8-8:30, WEAF; 8:30, music; 9-10:30, WEAF; 10:30, closing the air.			
WFI Philadelphia, Pa. (324.2m-700kc) 6:45, Adelpia dance orchestra; 8, WEAF; 8:30, WEAF; 9, WEAF; 10, Mopert Music; 10:30, orchestra.			
WCRS New York, N. Y. (315.5m-520kc) 7:40 p. m. Arrowhead Inn concert orchestra; 8:10, talk; 8:30, music; 10:30, Arrowhead Inn dance orchestra.			
WBBR Clearwater, Fla. (282.3m-510kc) 7 p. m. dinner music; 7:45, open air band; 8:45, studio music; 10, orchestra.			
WGBP Detroit, Mich. (379.1m-510kc) 6:30 p. m. dinner concert; 8:4-8, campers' ball hour; 8:30-9:30, band; 9:30-10, music.			
WGY Schenectady, N. Y. (379.5m-700kc) 6:30 p. m. concert; 7:15, music; 8:15, music; 9, WEAF; 10, music; 10:30, WEAF.			
WIK Cleveland, Ohio (272.6m-510kc) 6:30 p. m. Hotel Statler orchestra; 7:30-8, program; 9-11, orchestra.			
WJN New York, N. Y. (361.2m-630kc) 7 p. m. ice-berg orchestra; 7:30, music; 8, ensemble; 8:30, concert; 9, Prince, Piccoli; 9:30, orchestra; 11, Frivolity club; 11:30, Playroom.			
WICC Bridgeport, Conn. (322.4m-520kc) 7:15 p. m. program.			
WIP Philadelphia, Pa. (398.7m-690kc) 6:10 p. m. dinner music; 7, Uncle Wags; 8, dramatic reviews; 8:15-10:15, evening program; 10:55, Eno's weekly broadcast; 10:30, orchestra.			
WJAX Jacksonville, Fla. (356.2m-630kc) 7:30 p. m. dinner music; 7:30-9, popular program; 10-11, Casa de Bebe.			
WJR Detroit, Mich. (516.6m-600kc) 7 p. m. Jean Oskette's Police symphony orchestra, soloists; 8, Board of Commerce; Mt. Clemens, Mich.; 8:30, Stanislav Ugar girls; 9, program.			

WJZ New York, N. Y. (464.3m-600kc) 7 p. m. Frank Dale; 7:15, orchestra; 7:45, Keystone Club orchestra; 8:15, First National To-Be-Weds, WJZ; KDKA, KYW; 8:30, spark plugs, WJZ, KDKA, KYW; 9, grand opera, KDKA, KYW; 10, Don Amazo, wizard, KDKA, KYW; 10:30-11:30, orchestra.	WJZ Cincinnati, Ohio (422.8m-710kc) 8 p. m. book review; 8:15, dance music; 9, program; 12, popular program.	WLW Cincinnati, Ohio (422.8m-710kc) 7:30 p. m. music; 8, Castle Farm dance music; 8:30, Gay Nineties; 9, Normica orchestra.	WLWL New York, N. Y. (389.3m-540kc) 8:30 p. m. program.	WMAK Buffalo, N. Y. (365.5m-510kc) 6:15 p. m. dinner music; 7:30 evening program; 10:30, music; 12, organ; 12:30, Gigglebugs.	WMBF Miami Beach, Fla. (384.4m-700kc) 7 p. m. dinner concert; 8, popular program; 10, dance music.	WMAK New York, N. Y. (349.7m-580kc) 6:30 p. m. Broadway chat; 7, Joe Friedman's; 11, Hotel McAlpin orchestra.	WOO Philadelphia, Pa. (305.2m-500kc) 7:30 p. m. dance orchestra.	WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Bill Withay in sports; 6:30, Hotel Detroit Hall string quartet; 7:30, dance orchestra; 10:30, novelty program; 11, dance orchestra.	WPG Atlantic City, N. J. (388.5m-500kc) 7:10 p. m. organ recital, Arthur Brook; 8:05, Hotel Shelburne dinner music; 8:30, concert; 9, Dual concert trio; 10, bridge; 10:30, studio program; 11, dance orchestra.	WRC Washington, D. C. (468.5m-640kc) 7 p. m. Raleigh hotel orchestra; 8:30, WEAF; 9, WEAF; 10, WEAF; 10:30-11:30, Meyer Davis' Swanee Syncopators.	WSAI Cincinnati, Ohio (325.3m-520kc) 7 p. m. quartet; 7, quartet; 8, WEAF; 9-10:30, WEAF, program; 12, dance orchestra; 10:30, novelty program; 11, dance orchestra.	WSDC Milwaukee, Wis. (245.5m-520kc) 8 p. m. talk; 8:15, popular program; 9, Whozit.	WTAG Worcester, Mass. (348.1m-600kc) 8-10:30 p. m. WEAF.	WTAM Cleveland, Ohio (348.4m-700kc) 6:15 p. m. music; 8:15, WEAF; 11, Jule Room orchestra program; 12, dance orchestra; 10:30, novelty program; 11, Heald trio; 7, evening program; 10, orchestra.	WVJ Detroit, Mich. (382.7m-540kc) 6 p. m. dinner concert; 8, WEAF.
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WENR Chicago, Ill. (356m-1130kc) 6-7 p. m. organ; 8:30, 10:30, 11:30, frolic.	WFAA Dallas, Texas (475.9m-630kc) 8:30-7:30 p. m. music; 8:30-9:30, bridge game, selections; 11-12, orchestra.	WGBF Evansville, Ind. (326.1m-520kc) 8 p. m. musical program; 9, classic hour.	WGN Chicago, Ill. (362.5m-590kc) 6:35 p. m. dinner concert; Drake concert ensemble; 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, Carroll and Gusten.	WHAD Milwaukee, Wis. (375.1m-590kc) 6:15 p. m. dinner hour, orchestra selections; 8:30, theater review.	WHAS Louisville, Ky. (389.5m-580kc) 7:30-8 p. m. concert; 8-9, WEAF.	WHB Kansas City, Mo. (365.5m-620kc) 7:30 p. m. organ concert; 7:30-8, Hawaiian team; 8, program; 8:15, concert.	WHIO Des Moines, Ia. (325m-570kc) 7:30-8:30 p. m. 14th Cavalry band; 8:30-9, Paul Stoye, pianist; 11-12, dance program.	WHT Chicago, Ill. (395.5m-720kc) 6 p. m. Al Carney, organist; Bob York, Julie Juliens; 7:45 (238m-520kc), Stuart Dawson, songs; 9:30 (399.5m-750kc), quartet; 10:30, variety program; 11, Al and Pat.	WIBO Chicago, Ill. (286m-130kc) 6-8 p. m. Uptown conservatory; 12-1, jamboosie.	WJAZ Chicago, Ill. (329.5m-610kc) 6:30-8 p. m. Skirland hotel; 8:30, highlights; 8:30-9, Ready program; 9-12, diversified program.	WJTB Moonlight, Ill. (370.2m-640kc) 8-9 p. m. child artists; 11-1, Palmer House Victrola players.	WLIB Chicago, Ill. (362.5m-590kc) 7:30 p. m. dinner concert; 7:30-8, WEAF; 11-12:15, Ruth Farley, organist; dance orchestra; songs.	WLS Chicago, Ill. (344.6m-610kc) 6 p. m. Superbell; 6:40, Maurice Sherman's College Inn orchestra; 6:55, Tony's scrap book; 7, May and June; 10:30-12, organ; Maurice Sherman's College Inn orchestra.	WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. organ; 6:30, orchestra; 8:10, U. of C. lecture; 8:45, radio-graph; 9, talk; 9:15, music.	WMC Memphis, Tenn. (499.7m-600kc) 8:30 p. m. program; 12, midnight frolic.	WDAI San Antonio, Tex. (394.3m-700kc) 6:15 p. m. organ; 8:30-9:30, Galsworthy Melrose players.	WDC Davenport, Iowa (483.6m-620kc) 7:30 p. m. WEAF; 7:30-8, music; 8-9, WEAF; 9-9:30, WEAF; 9:30-10:30, lecture; 11-12, dance music.	WMBR Chicago, Ill. (280m-120kc) 7-8:30 p. m. ensemble; 8:30-11, frolic.	WOJ Kansas City, Mo. (270m-1040kc) 8-9:30 p. m. seasonal music.	WOW Omaha, Neb. (520m-670kc) 6 p. m. orchestra; 6:30, Lillian Madson, popular entertainer; 9, popular and old time music.	WQJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainie Gardens orchestra; vocal selections; 10-2 a. m. Rainie Gardens orchestra; frolic.	WRR Dallas, Tex. (245.5m-520kc) 6 p. m. orchestra; 6, entertainers.	WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. WEAF; 10:45, concert.	WSBC Chicago, Ill. (288.3m-1040kc) 6:30 p. m. dinner program; 7:15, travelog; 9:15, entertainers.	WSM Nashville, Tenn. (322.5m-1060kc) 8:45-7:15 p. m. dinner concert; 7:15, studio program; 7:30, concert; 8-10, evening program.
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DANCING

Central Time Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8, Waco; 9, V	19:16, Kiba; 19:20, I	9:15, Wab; 9:20, W	8, Wj; 9, Webb, V	8, Wj; 9, Wex, W	8, Webb, Wj; 9, W
9:15, Wab; 9:20, W	19:25, Wab; 19:30, W	9:20, Wab; 9:25, W	9, Wj; 9:10, Wj; 9:15, Wj; 9:20, Wj; 9:25, Wj; 9:30, Wj; 9:35, Wj; 9:40, Wj; 9:45, Wj; 9:50, Wj; 9:55, Wj; 10, Wj; 10:05, Wj; 10:10, Wj; 10:15, Wj; 10:20, Wj; 10:25, Wj; 10:30, Wj; 10:35, Wj; 10:40, Wj; 10:45, Wj; 10:50, Wj; 10:55, Wj; 11, Wj; 11:05, Wj; 11:10, Wj; 11:15, Wj; 11:20, Wj; 11:25, Wj; 11:30, Wj; 11:35, Wj; 11:40, Wj; 11:45, Wj; 11:50, Wj; 11:55, Wj; 12, Wj; 12:05, Wj; 12:10, Wj; 12:15, Wj; 12:20, Wj; 12:25, Wj; 12:30, Wj; 12:35, Wj; 12:40, Wj; 12:45, Wj; 12:50, Wj; 12:55, Wj; 1, Wj; 1:05, Wj; 1:10, Wj; 1:15, Wj; 1:20, Wj; 1:25, Wj; 1:30, Wj; 1:35, Wj; 1:40, Wj; 1:45, Wj; 1:50, Wj; 1:55, Wj; 2, Wj; 2:05, Wj; 2:10, Wj; 2:15, Wj; 2:20, Wj; 2:25, Wj; 2:30, Wj; 2:35, Wj; 2:40, Wj; 2:45, Wj; 2:50, Wj; 2:55, Wj; 3, Wj; 3:05, Wj; 3:10, Wj; 3:15, Wj; 3:20, Wj; 3:25, Wj; 3:30, Wj; 3:35, Wj; 3:40, Wj; 3:45, Wj; 3:50, Wj; 3:55, Wj; 4, Wj; 4:05, Wj; 4:10, Wj; 4:15, Wj; 4:20, Wj; 4:25, Wj; 4:30, Wj; 4:35, Wj; 4:40, Wj; 4:45, Wj; 4:50, Wj; 4:55, Wj; 5, Wj; 5:05, Wj; 5:10, Wj; 5:15, Wj; 5:20, Wj; 5:25, Wj; 5:30, Wj; 5:35, Wj; 5:40, Wj; 5:45, Wj; 5:50, Wj; 5:55, Wj; 6, Wj; 6:05, Wj; 6:10, Wj; 6:15, Wj; 6:20, Wj; 6:25, Wj; 6:30, Wj; 6:35, Wj; 6:40, Wj; 6:45, Wj; 6:50, Wj; 6:55, Wj; 7, Wj; 7:05, Wj; 7:10, Wj; 7:15, Wj; 7:20, Wj; 7:25, Wj; 7:30, Wj; 7:35, Wj; 7:40, Wj; 7:45, Wj; 7:50, Wj; 7:55, Wj; 8, Wj; 8:05, Wj; 8:10, Wj; 8:15, Wj; 8:20, Wj; 8:25, Wj; 8:30, Wj; 8:35, Wj; 8:40, Wj; 8:45, Wj; 8:50, Wj; 8:55, Wj; 9, Wj; 9:05, Wj; 9:10, Wj; 9:15, Wj; 9:20, Wj; 9:25, Wj; 9:30, Wj; 9:35, Wj; 9:40, Wj; 9:45, Wj; 9:50, Wj; 9:55, Wj; 10, Wj; 10:05, Wj; 10:10, Wj; 10:15, Wj; 10:20, Wj; 10:25, Wj; 10:30, Wj; 10:35, Wj; 10:40, Wj; 10:45, Wj; 10:50, Wj; 10:55, Wj; 11, Wj; 11:05, Wj; 11:10, Wj; 11:15, Wj; 11:20, Wj; 11:25, Wj; 11:30, Wj; 11:35, Wj; 11:40, Wj; 11:45, Wj; 11:50, Wj; 11:55, Wj; 12, Wj; 12:05, Wj; 12:10, Wj; 12:15, Wj; 12:20, Wj; 12:25, Wj; 12:30, Wj; 12:35, Wj; 12:40, Wj; 12:45, Wj; 12:50, Wj; 12:55, Wj; 1, Wj; 1:05, Wj; 1:10, Wj; 1:15, Wj; 1:20, Wj; 1:25, Wj; 1:30, Wj; 1:35, Wj; 1:40, Wj; 1:45, Wj; 1:50, Wj; 1:55, Wj; 2, Wj; 2:05, Wj; 2:10, Wj; 2:15, Wj; 2:20, Wj; 2:25, Wj; 2:30, Wj; 2:35, Wj; 2:40, Wj; 2:45, Wj; 2:50, Wj; 2:55, Wj; 3, Wj; 3:05, Wj; 3:10, Wj; 3:15, Wj; 3:20, Wj; 3:25, Wj; 3:30, Wj; 3:35, Wj; 3:40, Wj; 3:45, Wj; 3:50, Wj; 3:55, Wj; 4, Wj; 4:05, Wj; 4:10, Wj; 4:15, Wj; 4:20, Wj; 4:25, Wj; 4:30, Wj; 4:35, Wj; 4:40, Wj; 4:45, Wj; 4:50, Wj; 4:55, Wj; 5, Wj; 5:05, Wj; 5:10, Wj; 5:15, Wj; 5:20, Wj; 5:25, Wj; 5:30, Wj; 5:35, Wj; 5:40, Wj; 5:45, Wj; 5:50, Wj; 5:55, Wj; 6, Wj; 6:05, Wj; 6:10, Wj; 6:15, Wj; 6:20, Wj; 6:25, Wj; 6:30, Wj; 6:35, Wj; 6:40, Wj; 6:45, Wj; 6:50, Wj; 6:55, Wj; 7, Wj; 7:05, Wj; 7:10, Wj; 7:15, Wj; 7:20, Wj; 7:25, Wj; 7:30, Wj; 7:35, Wj; 7:40, Wj; 7:45, Wj; 7:50, Wj; 7:55, Wj; 8, Wj; 8:05, Wj; 8:10, Wj; 8:15, Wj; 8:20, Wj; 8:25, Wj; 8:30, Wj; 8:35, Wj; 8:40, Wj; 8:45, Wj; 8:50, Wj; 8:55, Wj; 9, Wj; 9:05, Wj; 9:10, Wj; 9:15, Wj; 9:20, Wj; 9:25, Wj; 9:30, Wj; 9:35, Wj; 9:40, Wj; 9:45, Wj; 9:50, Wj; 9:55, Wj; 10, Wj; 10:05, Wj; 10:10, Wj; 10:15, Wj; 10:20, Wj; 10:25, Wj; 10:30, Wj; 10:35, Wj; 10:40, Wj; 10:45, Wj; 10:50, Wj; 10:55, Wj; 11, Wj; 11:05, Wj; 11:10, Wj; 11:15, Wj; 11:20, Wj; 11:25, Wj; 11:30, Wj; 11:35, Wj; 11:40, Wj; 11:45, Wj; 11:50, Wj; 11:55, Wj; 12, Wj; 12:05, Wj; 12:10, Wj; 12:15, Wj; 12:20, Wj; 12:25, Wj; 12:30, Wj; 12:35, Wj; 12:40, Wj; 12:45, Wj; 12:50, Wj; 12:55, Wj; 1, Wj; 1:05, Wj; 1:10, Wj; 1:15, Wj; 1:20, Wj; 1:25, Wj; 1:30, Wj; 1:35, Wj; 1:40, Wj; 1:45, Wj; 1:50, Wj; 1:55, Wj; 2, Wj; 2:05, Wj; 2:10, Wj; 2:15, Wj; 2:20, Wj; 2:25, Wj; 2:30, Wj; 2:35, Wj; 2:40, Wj; 2:45, Wj; 2:50, Wj; 2:55, Wj; 3, Wj; 3:05, Wj; 3:10, Wj; 3:15, Wj; 3:20, Wj; 3:25, Wj; 3:30, Wj; 3:35, Wj; 3:40, Wj; 3:45, Wj; 3:50, Wj; 3:55, Wj; 4, Wj; 4:05, Wj; 4:10, Wj; 4:15, Wj; 4:20, Wj; 4:25, Wj; 4:30, Wj; 4:35, Wj; 4:40, Wj; 4:45, Wj; 4:50, Wj; 4:55, Wj; 5, Wj; 5:05, Wj; 5:10, Wj; 5:15, Wj; 5:20, Wj; 5:25, Wj; 5:30, Wj; 5:35, Wj; 5:40		

Watley in sports; 7. Jacques Jauch's Hotel Shelton ensemble; 8. N. Y. University; 9.15. orchestra; 9.30. Studio Guild hour; 11. dance orchestra.

WBC Washington, D. C. (468.5m-640kc) 7 p. m. Log House; 7:30. U. S. Army band; 8:30-9. WEAF; 9. WEAF; 9:30. staff program; 10. WEAF; 10:30-11.30. WEAF.

WRVA Richmond, Va. (256.3m-1170kc) 8 p. m. Band-leaders.

WYAI Cincinnati, Ohio (215.3m-920kc) 7:25 p. m. children; 7:30. WEAF; 8. program; 8:30. WEAF; 9. WEAF; 10. WEAF; 10:30. studio; 11. dance orchestra.

WSKC Bay City, Mich. (266.7m-1140kc) 9-11 p. m. music.

WSMB New Orleans, La. (319m-340kc) 8:30 p. m. classic.

WTAG Worcester, Mass. (848.5m-550kc) 7 p. m. Powers Coal Miners; 7:30. program; 8. Danforth hotel orchestra; 8:30. WEAF; 9. program; 10. WEAF.

WTAM Cleveland, Ohio (389.4m-370kc) 6 p. m. Coliseum symphony; 7.15. talks; 7:30. WEAF; 8. music recital; 8:30. WEAF; 9. program; 11. orchestra.

WWJ Detroit, Mich. (352.7m-820kc) 8 p. m. dinner concert; 8. WEAF.

Central Time Stations

CKY Winnepeg, Can. (264.4m-760kc) 9-10 p. m. Prof. Conrad Gortelovitz's violinist.

KFAB Lincoln, Neb. (340.7m-560kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30. request program.

KFNB Sherrard, Iowa (461.3m-690kc) 7 p. m. concert, Henry Field Seed company; 11. studio.

KMA Sherrard, Iowa (461.3m-690kc) 9-11 p. m. two piano concert, Patricia Beckers.

KMOX St. Louis, Mo. (293.2m-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 (292.8m-1090kc) 7:30 p. m. Jack Willich's orchestra; 8:15. evening concert.

KSO Clarinda, Iowa (403.2m-740kc) 6:30 p. m. songs.

KTHS Hot Springs National Park, Ark. (374.8m-800kc) 9-10 p. m. music; 10-11. frolic.

KVOD Brianow, Okla. (374.8m-800kc) 7-8 p. m. program; 8-9. Dorothy Hayward Hoody, artists; 12. dance orchestra.

KYW Chicago, Ill. (535.4m-800kc) 8:30 p. m. Jack DeBarry and his orchestra; 7-9. WEAF; 9-10:30. Edison classical concert; 10:30-12. program.

WBBM Chicago, Ill. (228m-1350kc) 8. Cood-Sanders; 9-11. artists, orchestra; 12. Party club.

WCCO Minneapolis-St. Paul, Minn. (415.4m-730kc) 8-45 p. m. Radio Pioneer's hour; 8. WEAF; 8:30. music; 9. WEAF; 10-30. orchestra; 11:30. organ recital, Eddie Dinsfelder.

WCFL Chicago, Ill. (491.5m-610kc) 6 p. m. talks; 7. Brevort trio; 8. variety hour.

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

WDAF Kansas City, Mo. (369.6m-620kc) 6-7 p. m. School of the air; 8:30. WEAF; 8:30-9. musicale; 9:30-10. WEAF; 11. Nightclub frolic.

WENR Chicago, Ill. (370.2m-810kc) 7 p. m. Edgewater Beach hotel orchestra; 9-11. orchestra, artists; 12-12:35. revue.

WEMC Berlin Springs, Mich. (315.6m-920kc) 8:15 p. m. recital.

WENR Chicago, Ill. (364.3m-1120kc) 6-7 p. m. Rauland trio; 8-9. trio; 9-10. Saxsonar orchestra; 12-2. frolic.

WGN Chicago, Ill. (302.2m-920kc) 6:10 p. m. music; 6:15. Punch and Judy; 6:35. Drake concert ensemble; 6:50-7. God Fashioned almshouse; 7:15. Paul Ash; 8:31. Adventures of Uney Fred Sweet; 8:51. songs; 9:45-10. Arabian Nights' entertainment;

10. Sam 'n' Henry; 10:10. Music Box; 10:30. songs, Tommy Coates; 10:30-12. The Pezzer Party.

WHAD Milwaukee, Wis. (275.1m-1090kc) 6:15 p. m. orchestra; 10:30. dance program; 11:30-12:30. organ.

WHAS Louisville, Ky. (295.8m-790kc) 7:30-9 p. m. Artists.

WHB Kansas City, Mo. (366.6m-620kc) 7-8 p. m. program; 10:30-11:30. midweek musicale.

WHIO Des Moines, Iowa (529m-570kc) 6-7 p. m. Little symphony; 7-10. program; 10-11:30. dance music.

WHY Chicago, Ill. (399.8m-1200kc) 6 p. m. Al Carney; 7-45 (232m-1200kc), orchestra, Stuart Dawson; 9:30 (299.8m-730kc), program; 10. variety program; 11. Al and Pat.

WIBO Chicago, Ill. (325.4m-1240kc) 5-8 p. m. dinner concert; 10-12. dance music.

WJAZ Chicago, Ill. (229.5m-910kc) 6:30 p. m. Shoreland hotel; 8. highlights; 9. diversified program.

WJJD Moseheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 12-12. Palmes House Victrolas.

WLIB Chicago, Ill. (302.2m-920kc) 8-8:30 p. m. WEAF; 12-12:45. opera club orchestra.

WLS Chicago, Ill. (344.6m-670kc) 6 p. m. Supperbell; 6:40. Mauro Sherman's College Ins orchestra; 6:55. Tony's scrap book; 7. May and June; 7:15. Mrs. Chas. Luffus room; 8. program; 9:15. WS-5; 10-12. show host.

WMAQ Chicago, Ill. (447.8m-670kc) 6 p. m. Chicago theater organ; 8. orchestra; 8-10. Northwestern U. 1. music.

WMBB Chicago, Ill. (249.8m-1280kc) 7-7:30 p. m. Triano duo; 7:30-8:30. minstrel; 8:30-11. orchestra, artists.

WQAT San Antonio, Texas (384.8m-940kc) 8:30-9:30 p. m. Delaware Punch program.

WOC Deavenport, Iowa (483.6m-620kc) 3:30-7:30 p. m. musicale; 8-9:30. WEAF; 9:30-10:30. musicale.

WOK Chicago, Ill. (288m-1240kc) 6-7:45 p. m. string ensemble; 8-9 (217.3m-1380kc), theater program; 9:30-12 (238m-1200kc), symphonists.

WQQ Kansas City, Mo. (276m-1090kc) 6:15 p. m. orchestra.

WORD Chicago, Ill. (272.2m-1080kc) 7 p. m. North Shore hotel; 7:45. ten minutes of good reading; 9. I. B. S. A. choral singers; 9:15. Bible lecture.

WOS Jefferson City, Mo. (446.9m-690kc) 7:30 p. m. address; 8:05. talk; 8:30. musicale.

WQJ Chicago, Ill. (447.8m-670kc) 7-8 p. m. Balala Gardens orchestra; concert; 10-12 a. m. Radio frolic.

WSB Atlanta, Ga. (324.3m-1000kc) 10-45 p. m. entertainers.

WSBC Chicago, Ill. (288.3m-1040kc) 6:30-8 p. m. dinner program; 9-5. entertainers.

WSOE Milwaukee, Wis. (246.3m-1220kc) 6:30 p. m. children's program; 7. popular program; 8. Walnut.

WSM Nashville, Tenn. (292.8m-1080kc) 6:45 p. m. dinner concert; 7:15. studio program; 8-10. evening program.

WSWS Chicago, Ill. (278.8m-1090kc) 6 p. m. Dinner hour program; Terrace Garden orchestra; 8. Terrace Garden orchestra; 10. popular program; 12 mid-night, Watching hour.

Mountain Time Stations

KOA Denver, Colo. (322.4m-810kc) 8 p. m. Schwanman's Colorado orchestra; 8:15. studio program.

Pacific Time Stations

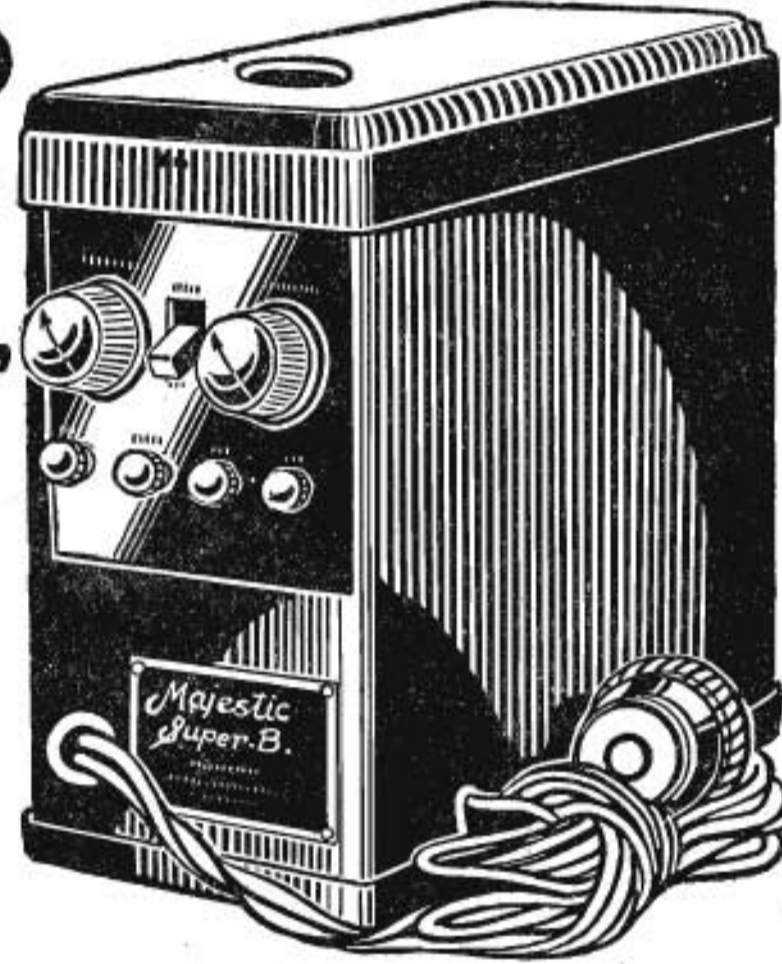
KFI Los Angeles, Calif. (467m-640kc) 7 p. m. Virginia ballroom orchestra; 7:30. Nick Harris; 8:25. program; California Petrolina corp.; 9:10. semi-classical hour; 10-11. Sunset instrumental quartet.

KFWB Hollywood, Calif. (232m-1150kc) 6-7 p. m. Luntz director hour; 7:50. news; 8-9. features; 9-10. Bill Hatch and his orchestra; 10-11. Warner Brothers folk.

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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.

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Majestic "B" Eliminator
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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.

Cabinet finished in rich black crystal enamel. Dimensions: 10 3/4 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.

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

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BASKETBALL GAMES

Thursday, February 3
 Eastern Central Mountain Pacific
 8:15 p. m. 7:15 8:15 8:15
 WOI (270.3m-1110kc) Grinnell—Ames at Ames.

Friday, February 4
 8:30 p. m. 7:30 8:30 8:30
 KFDY (300m-1000kc) Creighton—State College at Brookings.

Saturday, February 5
 8 p. m. 7 6 5
 WSOI (484m-620kc) Ohio—Iowa at Iowa City.

Wednesday, February 9
 8:15 p. m. 7:15 8:15 8:15
 WKAR (285.5m-1050kc) Hope—Michigan State at East Lansing.

Saturday, February 12
 8 p. m. 7 6 5
 WEAQ (291.9m-1000kc) Purdue—Ohio at Columbus.

WRESTLING, FEBRUARY 1
 Eastern Central Mountain Pacific
 8:30 p. m.
 WOI (270.3m-1110kc) Kansas Aggies—Ames at Ames.

TRACK, FEBRUARY 11
 Eastern Central Mountain Pacific
 8:30 p. m.
 WOI (270.3m-1110kc) Drake and Grinnell at Ames.

HOCKEY, FEBRUARY 1
 Eastern Central Mountain Pacific
 9 p. m. 8 7 6
 WBZ (333.1m-900kc) Boston Bruins—St. Patricks.

KGO Oakland, Calif. (361.2m-830kc) 6-6:55 p. m. Stanislaus Dean's Little symphony; 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Fairmont Hotel concert orchestra; 8-9, Atwater Kest artists; 10-10, music; 10-11, States Restaurant orchestra; 11-12, Triason ballroom.
KTAB Oakland, Calif. (302.3m-990kc) 8-10 p. m. program.
KWSC Pullman, Wash. (348.6m-800kc) 7-10 p. m. concert, talk.

Wednesday, silent night for: CKAC, KFDM, KFDY, KIDS, KMMJ, KMOX, KOB, KOIL, KPSN, KQDA, KRWG, WABO, WBAL, WBAF, WBSB, WCBQ, WFAA, WFI, WGBY, WGBS, WGGC, WJAB, WJF, WJAZ, WMC, WDAI, WDW, WPG, WRR, WSOI, WTIC.

THURSDAY, FEBRUARY 3
Headliners

Eastern	Central	Mountain	Pacific
8:20 p. m.	8:25	8:25	8:25
WJIC (295.5m-1000kc) Clintonia concert.	8:15	8:15	8:15
WCCO (416.6m-720kc) Geo. Osborn's Cantata Hotel dinner concert.	6:30	5:30	4:30
WMAK (285.5m-1130kc) Canabara orchestra.	6:45	5:45	4:45
WBBR (416.4m-720kc) Missis Schaefer, soprano.	7	6	5
WRAL (248m-1220kc) Hilda Maidtich, soprano; Philip Crist, tenor; Agnes Garrett, pianist.	7:15	6:15	5:15
WBBR (416.4m-720kc) F. S. Barnes, organist.	7:30	6:30	5:30
WIF (508.2m-390kc) Delaware State trio.	7:30	6:30	5:30
KFH (358m-1120kc) Singing menagerie.	7:45	6:45	5:45
WBBR (416.4m-720kc) Camille Schmidt, soprano.	8	7	6
WBAK (289.8m-790kc) Kentucky Cardinals.	8:15	7:15	6:15
WEO (526m-370kc) Myrtle Williams, soprano.	8:30	7:30	6:30
WMAK (285.5m-1130kc) Music Study club.	8:45	7:45	6:45

Eastern	Central	Mountain	Pacific
8:40 p. m.	7:45	6:45	5:45
WCCO (416.6m-720kc) Grace La Mar, soprano.	7:45	6:45	5:45
WCAU (277.6m-1080kc) Fred D. Griffin, concert soloist.	8	7	6
WIP (508.2m-390kc) Tollie Szyferman, pianist.	8:15	7:15	6:15
KPRC (299.8m-1000kc) Leon Schiro, tenor.	8:30	7:30	6:30
WCAU (277.6m-1080kc) Unity artists.	8:45	7:45	6:45
WCBQ (344.8m-870kc) Zion orchestra, organ and mixed quartet.	9	8	7
WBS (265.6m-840kc) Knights of Columbus.	9:15	8:15	7:15
WBAK (285.5m-1130kc) Hunsdale Serenaders.	9:25	8:25	7:25
WIP (508.2m-390kc) Clivedin male quartet.	9:30	8:30	7:30
WFAA (475.9m-620kc) Frank Renard club.	9:45	8:45	7:45
WMAO (447.5m-600kc) Columbia School of Music.	10	9	8
WDAI (394.5m-760kc) Italian song program.	10:15	9:15	8:15
WVA (256.3m-170kc) "The College Spirit," U. of Richmond.	10:30	9:30	8:30
WBBR (416.4m-720kc) Vitali Podgorny, violinist.	10:45	9:45	8:45
WCAU (277.6m-1080kc) Gummy's Campus Boys—American trio.	11	10	9
WBY (379.5m-750kc) Martin and Taylor.	11:15	10:15	9:15
WLV (422.3m-710kc) Light opera.	11:30	10:30	9:30
KYIS (374.8m-800kc) Eastman Hotel ensemble.	11:45	10:45	9:45
WBBR (416.4m-720kc) Ray-U-Vac Twins.	12	11	10
KGO (361.2m-830kc) "The Bells of Corseville."	12:15	11:15	10:15
WOC (463.6m-620kc) Burlington musicals.	12:30	11:30	10:30
KPRC (299.8m-1000kc) Geo. Parker, whistler.	12:45	11:45	10:45
KDWW (248m-1050kc) Richmond's Arcadians.	1	12	11
WBO (526m-370kc) Madright Jamboes.	1:15	12:15	11:15
KDWW (248m-1050kc) Carl Genesl, organist.	1:30	12:30	11:30

Regular Thursday Features

Eastern Time Stations

CPCA Toronto, Can. (366.9m-840kc) 8:15 p. m. musical program; Luigi Bonarelli and his orchestra.
KDKA Pittsburgh, Pa. (389.3m-970kc) 8:15 p. m. KDKA Little symphony orchestra; 8 program; 9, WJZ; 11, dance.
PWX Havana, Cuba (299.2m-750kc) 8:30 p. m. Cuban program.
WBAI Baltimore, Md. (246m-1220kc) 8:30-7:30 p. m. dinner orchestra; 7:30-8, organ recital; 8-9, musical program; instrumental and vocal selections; 9-10, ensemble; 10-11, staff concert; 11-12, dance orchestra.
WBBR New York, N. Y. (416.4m-720kc) 7:30 p. m. program.
WBZ Springfield, Mass. (333.1m-900kc) 8:15 p. m. organ; 8:30, orchestra; 8, musicals; 9, WJZ; 10, program; 10:30, orchestra.
WCAE Pittsburgh, Pa. (463.6m-620kc) 6 p. m. orchestra; 7:45, talk; 8:30, musicals; 9-11, WEAJ; 11, dance music.
WCAU Philadelphia, Pa. (277.6m-1080kc) 7:30 p. m. Spellenburg recital; 8, Spellenburg Serenaders; 8:30, Geta Go-Gettes; 9:30, Musical Club; 10, folk; 10:30, Parolians dance orchestra; 11, Chas. Cain organ; 12, Piccadilly review.
WCX Detroit, Mich. (516.9m-880kc) 6-7 p. m. dinner program, Goldkette ensemble; 8-9, studio program.
WDBO Winter Park, Fla. (239.8m-1260kc) 9 p. m. orchestra.
WEAF New York, N. Y. (491.5m-610kc) 6 p. m. dinner music; 7, mid-week hymn sing, auspices of the Greater New York Federation of churches; 7:30, same characters in literature; WOC; 8, Coward Comfort hour; 8:30, program; WGR, WFI, WWJ, WLAJ, WSAI, KSD; 9, Clifton club Bakinos; WEPJ, WJAK, WTAG, WPI, WCAE, WSAI, WTAM, WGR, WWJ, WOC, WTCO, KSD, WGN, WLY; 10, Goodrich Zippers; WBE, WJL, WCAJ, WWJ, WGR, WDL, WCCO, WTAG, KSD, WSAI.

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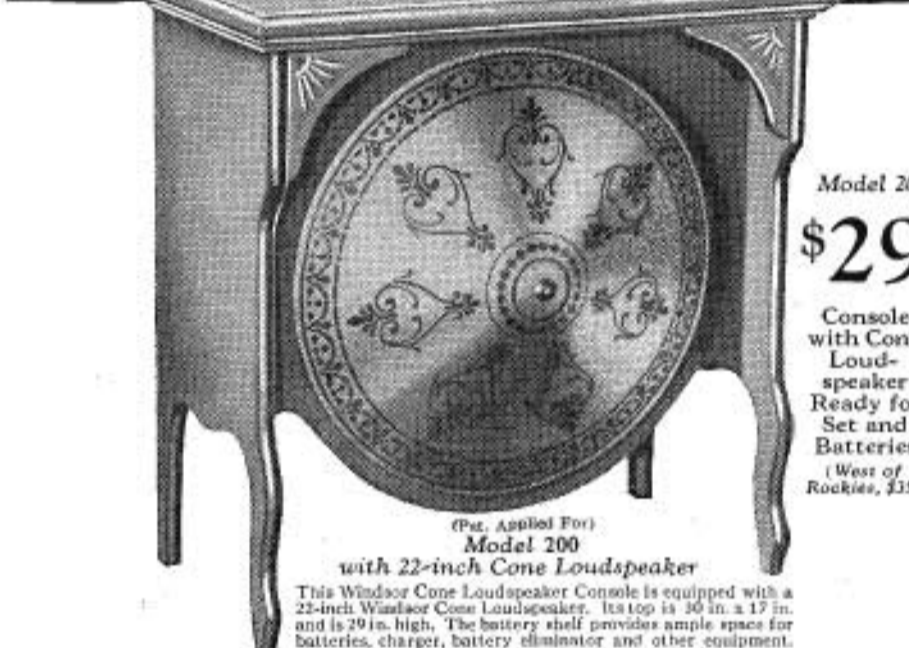
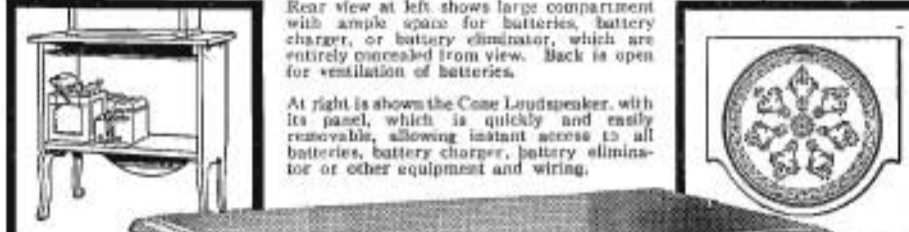
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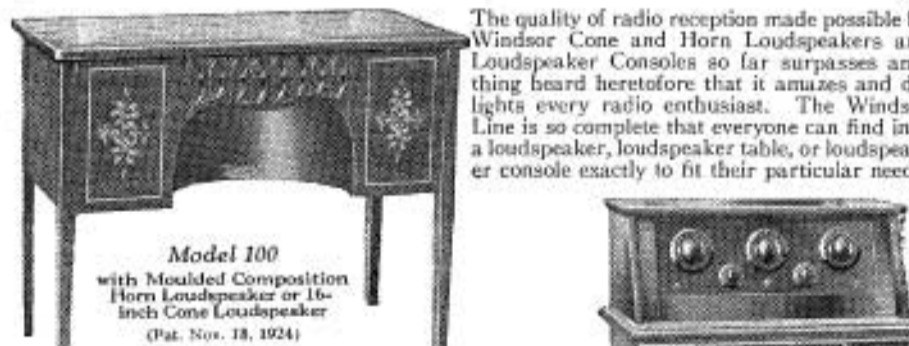
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EDUCATIONAL FEATURES

Monday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
WFLA (389.4m-570kc) Music appreciation.			
WGN (302.5m-550kc) "Correct English."			
WNYC (526m-570kc) Elementary German lessons. V. H. Berlitz.			
WDAF (365.5m-520kc) School of the Air.			
WVYC (526m-570kc) Advanced German lessons.			
WEAF (491.5m-510kc) Columbia University.			
WKAR (285.5m-505kc) geology, economics.			
KSAC (340.7m-580kc) sociology.			
KDKA (130.1m-570kc) University of Pittsburgh.			
WDBO (229.9m-520kc) Rollins college.			
KVOA (293.5m-500kc) Feb. 7, Costumes for Valentine parties; Feb. 14, Who Was St. Valentine?			
WSUI (483.5m-520kc) U. of Iowa courses.			
KOB (348.5m-550kc) N. M. state college.			

Tuesday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
WGN (302.5) Spanish lesson.			
WNYC (526m-570kc) Elementary Italian lesson.			
KVOA (293.5m-500kc) University of Tulsa.			
WDAF (365.5m-520kc) School of the Air.			
WVYC (526m-570kc) Advanced Italian lessons.			
WEAF (491.5m-510kc) Columbia University.			
WKAR (285.5m-505kc) International relations; trends in education.			
KSAC (340.7m-580kc) College of the Air.			
WEEL (398.5m-560kc) Feb. 1, Edward Lewis, Mass. Agri. college; Feb. 8, Daniel L. Marsh, Boston U.			
WGY (379.5m-590kc) Feb. 1, "Political Isolation." Prof. Goddard.			
KDKA (130.1m-570kc) U. of Pittsburgh.			
WEAO (253.5m-520kc) travel talks.			
WMAQ (447.5m-670kc) University of Chicago.			
KFMX (336.9m-590kc) Feb. 1, Active Immunization.			

Wednesday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
WEAF (491.5m-510kc) Sociology lectures.			
WNYC (526m-570kc) Elementary Spanish lessons.			
KVOA (293.5m-500kc) Law lecture, U. of T.			
WDAF (365.5m-520kc) School of the Air.			
WVYC (526m-570kc) Advanced Spanish lessons.			
WKAR (285.5m-505kc) rural literature.			

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
KSAC (340.7m-580kc) taxation, engineering.			
KDKA (130.1m-570kc) University of Pittsburgh.			
WDBO (229.9m-520kc) Rollins college.			
WGB (405.2m-740kc) N. Y. University.			
WLSI (483.5m-520kc) U. of Iowa courses.			
WMAQ (447.5m-670kc) Lectures, Northwestern U.			
KSAC (340.7m-580kc) sociology.			
WDBO (229.9m-520kc) Rollins college.			
KDKA (130.1m-570kc) University of Pittsburgh.			
WDBO (229.9m-520kc) Rollins college.			

Thursday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
KVOA (293.5m-500kc) U. of Tulsa.			
WDAF (365.5m-520kc) School of the Air.			
WVYC (526m-570kc) international relations, sociology.			
WDBO (229.9m-520kc) Library Appreciation series.			
KDKA (130.1m-570kc) Feb. 3, life in other worlds, economics; Feb. 30, stary leaves.			
WEAO (253.5m-520kc) engineering.			
WJ (220.1m-510kc) Iowa State Radio course.			
WMAQ (447.5m-670kc) U. of C. lecture.			

Friday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
WNYC (526m-570kc) Elementary French lesson.			
WDAF (365.5m-520kc) School of the Air.			
WVYC (526m-570kc) Advanced French lesson.			
WJW (526m-570kc) Musical Appreciation.			
WEAF (491.5m-510kc) Columbia University.			
WKAR (285.5m-505kc) international relations; trends in education.			
KSAC (340.7m-580kc) College of the Air.			
WEEL (398.5m-560kc) Feb. 1, Edward Lewis, Mass. Agri. college; Feb. 8, Daniel L. Marsh, Boston U.			
WGY (379.5m-590kc) Feb. 1, "Political Isolation." Prof. Goddard.			
KDKA (130.1m-570kc) U. of Pittsburgh.			
WEAO (253.5m-520kc) travel talks.			
WMAQ (447.5m-670kc) University of Chicago.			
KFMX (336.9m-590kc) Feb. 1, Active Immunization.			

Saturday

Eastern	Central	Mountain	Pacific
7:30 p. m.	1:30	12:30	11:30
WOW (526m-570kc) Historical talks.			
WOW (526m-570kc) Creighton educational period.			
WMAQ (447.5m-670kc) photographers.			

WJAR, WGN, WADC, WBSH; 11, Vincent Lopez and his orchestra from Casa Lopez, WGY.
 WEAD Columbus, Ohio (293.5m-520kc) 8:15 p. m. headliners.
 WEEL Boston, Mass. (368.5m-560kc) 6:10 p. m. Palace Royal orchestra; 7:20, Boston Globe broadcast; 8, musicals; 9-11, WEAF.
 WFI Philadelphia, Pa. (394.5m-700kc) 8 p. m. The Sereaders; 8:30, recital; 9, WEAF; 10, WEAF.
 WGBS New York, N. Y. (314.5m-580kc) 6 p. m. program.
 WCHS Clearwater, Fla. (265.5m-510kc) 7 p. m. dinner music; 7:45, Clearwater Scarlet Guards; 8:45, Euphonia Kavassa; 10, orchestra.
 WGHF Detroit, Mich. (379.5m-510kc) 6 p. m. dinner concert, Hotel Teller; 10-11, WGHF Prellingers; 11-12, dance orchestra.
 WGR Buffalo, N. Y. (319m-540kc) 6:30-7:30 p. m. Vincent Lopez Hotel Statler orchestra; 8-11, WEAF.
 WGY Schenectady, N. Y. (373.5m-700kc) 6:30 p. m. dinner music; 7:45, musicals; 9, WEAF; 10-11:30, program; 11:30, organ.

WHK Cleveland, Ohio (373.5m-510kc) 6 p. m. orchestra; 10, sacred hour.
 WJIN New York, N. Y. (361.5m-530kc) 7 p. m. Iceland dance orchestra; 8, Will Oakland's Chateau; 9-10, Low's theater; 12, The Playground.
 WICC Bridgeport, Conn. (232.4m-520kc) 7 p. m. studio program.
 WIP Philadelphia, Pa. (288.5m-530kc) 6:10 p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; 8, evening program; 10:05, dance orchestra; 10:30, orchestra.
 WJR Detroit, Mich. (516.5m-580kc) 7 p. m. Joan Goldkorn's Petite symphony orchestral soloists; 7:30, Mr and Magninity, entertainers; 9, studio program.
 WJZ New York, N. Y. (454.5m-660kc) 7 p. m. Hotel Pennsylvania orchestra; 8, Bi-Son yama, WBZ, KYW, KDKA; 8:30, Markell's society orchestra, WBZ, KDKA, KYW; 9, R. C. A. radiograms; WBZ, KDKA, KYW; 10, Erva Gitta, soprano; 10:30-11:30, Fidelity orchestra.



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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. Put this interference eliminator on your set and note amazing improvement. No tools needed—install in a moments time. Connect with set and follow simple instructions. Money back promptly if not delighted. \$1 postpaid when cash with order. ORDER TODAY— a dollar bill will do. REFUND: Exchange National Bank.

\$1 Postpaid if you are not delighted with results you get your dollar back

The New Steinite 7-Tube Radio uses no batteries of any kind—only \$125. Lead Speaker Built In. Complete with tubes \$1.51 with nothing to buy. Operates from light socket 1 1/2 an hour. Write for descriptive literature before buying an expensive Battery Set. Also Steinite Long Distance Crystal Set \$8—6-Tube Battery Set \$45. WRITE TODAY.

STEINITE LABORATORIES, 408 Radio Bldg., ATCHISON, KANSAS

"B" Battery Eliminator

complete with
Genuine RAYTHEON TUBE
\$50 Value — Our Price Only
\$22.95
 West of the Rockies Add 10%



Capacity 50 Milliamps, 200 Volts Adequate for 1 to 15 Tubes

Positively the Greatest Value in "B" Eliminators

While the regular market price of the Genuine is around \$50.00, our factory-to-you price is only \$22.95. At this price, everyone can afford to own a Genuine 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.

Doesn't flash; 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.

The Raytheon tube and Eliminator are good for a lifetime of service and are fully guaranteed. Capacity, 50 milliamps up to 200 volts for 15-tube sets or less.

Send money order for \$22.95, west of the Rockies add 10%, 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.

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 Ship at once, post paid, \$22.95 (check enclosed). West of the Rockies add 10%.
 Ship at once, C. O. D., for \$22.95, plus slight express charges.

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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 Genuine are the finest unit parts, laboratory matched; the case with its rich, genuine Brewster Green

A & B Battery \$2 Charger ONLY

SATISFACTION GUARANTEED

THIS wonderful charger—the sensation of the entire radio industry—charges any type of storage A or B battery, using only a few cents worth of ordinary house current. Works perfectly on either alternating or direct current.



Cannot possibly injure your battery, and will last for years. Many radio fans find it a tremendous success as a trickl' charger. Complete and simple directions enclosed with every charger, so that anyone can operate it. There are absolutely no expensive "extras" to buy.

Why pay \$10.00 to \$15.00 for a charger when you can get this splendid GUARANTEED R. B. Charger by simply signing the coupon below and mailing it to us with two dollars (bills, money order, check or stamps) plus 10c in stamps or coin to pay mailing costs. The charger will be sent post-paid. If, for any reason, you should not be perfectly satisfied, return the charger within five days and we will refund your money.

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Enclosed is two dollars, plus 10c for postage. Send me one R. B. Charger with full instructions. It is understood that if I am not satisfied with the charger, I may return it within five days and you will refund my money.

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Versatile Instrumentalist



Jacquinet Jules is her name. She is program director of KMOX and besides finds time to play the organ, harp and piano.

KFAB Lincoln, Neb. (349.7m-480kc) 8:30-10:30 p. m. out of town program.
 KFNF Sherandoah, Iowa (461.3m-480kc) 7 p. m. concert.
 KLDL Independence, Mo. (440.9m-480kc) 8 p. m. studio program.
 KOIL Council Bluffs, Ia. (352.5m-500kc) 6 p. m. program; 7, farm program; 7:30, oil burner; 8, music hour; 11, orchestra.
 KFRC Houston, Texas (258.5m-1000kc) 8 p. m. evening program; 8:30, blue club; 11, entertainment.
 KSO Clarinda, Iowa (485.2m-740kc) 6:30 p. m. concert.
 KTHS Hot Springs National Park, Ark. (374.6m-480kc) 9-10:10 p. m. program; 10:10, dance program.
 KYOD Bristol, Okla. (374.5m-500kc) 7-7:30 p. m. Hawaiian music; 7:30-8, Irene Buchner; 8-9, music lovers hour; 12, American Legion folkie.
 KYW Chicago, Ill. (885.4m-650kc) 6:30 p. m. Joska DeBary and his orchestra; 7, WJZ; 8-10:30, classical concert; 10:30-12, Congress carnival.
 WBAF Fort Worth, Tex. (478.9m-430kc) 7:30-8:30 p. m. saxophone octet; 9:30-11, program; 11-12, organ.
 WBBM Chicago, Ill. (259m-1390kc) 8 p. m. Com-Sanders Night Hawks; 9-11, orchestra, piano; 11, Com-Sanders Night Hawks.
 WCBZ Zion, Ill. (384.6m-470kc) 8 p. m. musicale.
 WCCO Minneapolis-St. Paul, Minn. (448.4m-720kc) 8 p. m. WEAF; 10:05, talk.
 WCFL Chicago, Ill. (491.5m-430kc) 6 p. m. talk; 7, Beethoven trio; 8-12, classical music, Superior players.
 WDAF Kansas City, Mo. (395.6m-430kc) 6-7 p. m. school of the air; 11:45-1, Nighthawk folkie.
 WDBH Chicago, Ill. (379.2m-610kc) 7-9 p. m. Uptown Theater; 9:30-11, musicale.

WENR Chicago, Ill. (265.2m-1190kc) 6-7 p. m. Railroad trio; 8-9, trio; 9-10, popular program.
 WFAA Dallas, Texas (475.3m-630kc) 6:30-7:30 p. m. Baker hotel orchestra; 8:30-9:30, concert.
 WGN Chicago, Ill. (382.6m-560kc) 6:30 p. m. Drake concert ensemble; Blackstone string quartet; 8-10, WEAF; 10, Sam 'n' Henry; 10:30, The Music Box; 11:30, Mark Love, bass; Bobby Meeker's Drake hotel orchestra; 10:30-11, songs, Carroll and Gordon.
 WHAD Milwaukee, Wis. (378.1m-1090kc) 6:15 p. m. orchestra and vocal selections, Wisconsin hotel orchestra; 8:30, studio program, 10, orchestra.
 WHAS Louisville, Ky. (388.6m-700kc) 7:30-9 p. m. concert.
 WHB Kansas City, Mo. (395.6m-430kc) 7-7:30 p. m. organ concert; 7:30-9, talk; 9-10, songsters.
 WIDR Des Moines, Ia. (528m-570kc) 7:30-8 p. m. concert; 8-9, music; 11-12, dance program.
 WHI Chicago, Ill. (399.1m-720kc) 6 p. m. Al Carney, organist, violin; 7:45 (238m-1260kc), orchestra, songs; 10:30, quartet; 11, Al and Pat.
 WJBO Chicago, Ill. (225.6m-1330kc) 6-8 p. m. dinner concert; 12-2, Aragon minstrel.
 WJAZ Chicago, Ill. (538.5m-910kc) 7 p. m. diversified program; 9, Shoreland.
 WJJD Muncie, Ind. (376.2m-610kc) 8-9 p. m. child artists; 11-1 a. m. Palmer House Victorians.
 WJL Chicago, Ill. (362.5m-590kc) 7-8 p. m. dinner concert; 11-12:30, organ, orchestra.
 WLS Chicago, Ill. (344.6m-570kc) 6:30 p. m. sports; 6:50-7:55, artists; 10:30-12:30, orchestra.
 WMAQ Chicago, Ill. (447.5m-470kc) 6 p. m. Chicago theater organ; 8:30, orchestra; 8, program; 8:05, 11 of Chicago; 8:30, trio; 9, players.
 WMBB Chicago, Ill. (248.5m-1200kc) 7-8:30 p. m. Tri-tone ensemble; 8:30-11, orchestra; Arthur Transatlantic.

WMC Memphis, Tenn. (495.7m-670kc) 8 p. m. talk on Memphis conference; 8:30, program.
 WOAI San Antonio, Tex. (394.5m-740kc) 8:30-9:30 p. m. Radiola Super-Heterodyne hour.
 WOC Davenport, Iowa (483.4m-420kc) 7:30-8 p. m. Moira Flinbays; 8-9, WEAF; 9-10, WEAF; 10-11, musicale.
 WOK Chicago, Ill. (238m-1260kc) 6-7:45 p. m. string ensemble; 8-9 (217.3m-1350kc), theater program; 9:30-12 (238m-1260kc), 59400000.
 WORD Chicago, Ill. (275.1m-1390kc) 7 p. m. Webster Hotel duo orchestra; 9, musicale.
 WOW Omaha, Neb. (528m-570kc) 6 p. m. Vagabonds; 9, classical program; 10, Roseland Gardens.
 WOJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rosalia Gardens orchestra; specialty; 10-12 a. m. Radio Glee.
 WRH Dallas, Tex. (248.5m-1220kc) 6 p. m. music; 8, band; 9, Billie Davis; 11-12, old-time music.
 WSB Atlanta, Ga. (428.5m-700kc) 8 p. m. concert; 10:45, Charles A. Sheldon Jr. organist.
 WSDC Chicago, Ill. (285.3m-1040kc) 6-7 p. m. dinner program; 9-11, caterers.
 WSM Nashville, Tenn. (282.5m-1090kc) 6:15 p. m. arrangements; 6:45, orchestra; 7:15-9:30, music, dance program.
 WSOE Milwaukee, Wis. (245.5m-1220kc) 6 p. m. children's hour; 7, popular music; 9, bridge; 9:30, community band.
 WSW5 Chicago, Ill. (375.6m-1090kc) 6 p. m. dinner hour program; Terrace Garden orchestra; 8, production, The Magic Crystal; 10, popular airs; 12, Wishing 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;



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—provided, of course, that you use a Rectigon. That's the one best way to keep both "A" and "B" batteries in topnotch form. There's no starving of batteries when you have this home charger to keep them full of pep. And, man alive, the unsuspected power your set shows then! Remember, too, that the bulb used for "B" battery charging is enclosed, like all other parts, in metal, free from harm. And keep in mind that your Rectigon will charge your automobile batteries.

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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.



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 NEW LOW PRICES
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 Send No Money
 Just state number wanted and we will ship same day order is received, by express C.O.D. Pay expression after examining batteries. 5% discount for cash with order. Home use, per save 50% on World Batteries—so send your order today.
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 Get your radio (check 50¢) or stereo for the World Storage Battery Station, World Variety—new in stock—always in stock.
 Jerry Robbins, Dir. and Assoc. Secy. "WORLD BATTERY"

KDKA WBEZ WEAF

WQJ Chicago, Ill. (447.5m-470kc) 7-8 p. m. Rainbo Gardens orchestra; 10:30 a. m. Radio Traffic.

Mountain Time Stations

KOA Denver, Colo. (322.4m-328kc) 8 p. m. KOA orchestra; 9:15, studio program.

Pacific Time Stations

KFI Los Angeles, Calif. (547.9m-542kc) 7-8 p. m. popular program; 8:30, recital; 9:30, semi-classical hour; 10-11, Beckard ballad hour.

KFMB Hollywood, Calif. (282.5m-1199kc) 6-7 p. m. Popular dinner hour; 7:30, news; 8-10, Bill Hatch and his orchestra; 10-11, Warner Brothers Melic.

KGO Oakland, Calif. (361.3m-839kc) 6-6:15 p. m. Standard Hour; 7-10, variety; 8-9 p. m. dinner concert; 8-8:30, KGW movie club; 8:30-10:30, dance music; 10:30-12, Jolly Beat Club.

KHJ Los Angeles, Calif. (408.2m-789kc) 6-6:30 p. m. White King male quartet; 6:30-7:30, children's hour; 8-10, feature program.

KEX Oakland, Calif. (308.2m-829kc) 8-9:30 p. m. special program; 9:30-10:30, Athens Athletic club orchestra.

KMTR Hollywood, Calif. (370.2m-819kc) 8-9 p. m. croonole; 9-10, dance music; 10-12, dance music.

KNK Hollywood, Calif. (335.3m-859kc) 7 p. m. feature; 8-9, 10, features; 11, Hotel Hollywood; 12, KPO Song.

KPO San Francisco, Calif. (423.3m-709kc) 6-6:30 p. m. State Restaurant orchestra; 8-9, orchestra; 10-11, orchestra; 11-12, dance orchestra.

KTAB Oakland, Calif. (302.3m-849kc) 8-9 p. m. orchestra; 9-10, orchestra.

KWSC Pullman, Wash. (348.6m-669kc) 7:30 p. m. concert, talk.

Friday, allent night for: CFCA, CKAC, CKNC, KFDY, KFNZ, KLDL, KPRC, KPSP, KUOA, KWVC, WBBR, WCAD, WCBD, WFT, WGSS, WIP, WJAZ, WKIC, WLIT, WLW, WLWL, WRDQ, WSAI, WSM, WSSM, WSUI, WTAM.

Eastern 6:25 p.m. Central 7:25 Mountain 8:25 Pacific 9:25

WIP (508.2m-509kc) Raymond W. Mason, violinist.

KRUI (385.9m-800kc) Mildred Mabae, entertainer.

WJAS (385.8m-720kc) Arthur Budding, baritone.

WJUC (445.9m-630kc) Silk City, flute band.

WIP (508.2m-509kc) Circle opera recital.

WEAF (491.5m-610kc), WEEI (348.6m-669kc), WFTY (370.5m-700kc), WGR (310m-940kc), WFI (384.5m-700kc), WYAG (440.3m-830kc), WSAI (325.3m-820kc), WTAM (322.5m-819kc), WJUC (445.9m-630kc), WJAN (302.5m-809kc), WCCO (416.4m-720kc), KSD (385.1m-839kc), WDAF (365.8m-829kc), WOC (483.6m-629kc), WRC (460.5m-849kc), acts 1 and 2 of Wagner's Meistersinger, by Walter Dierosch.

WGR (405.2m-749kc) Washington Heights musical club.

WFAA (475.9m-630kc) G Haydn Jones.

WDAP (365.6m-830kc) "Hale and Derry."

WBAF (475.3m-629kc) Sunflower Girl.

WCCO (416.4m-720kc) Madame Sesslarhus, Gdn male chorus.

WMAQ (447.5m-670kc) Pratt and Sherman, popular songsters.

WIP (508.2m-509kc) Gebel, pianist, organist.

WCCO (416.4m-720kc) Geo. Osborn's Curtis orchestra.

WSD (428.3m-1049kc) "The Tavern by the Road."

WJAS (385.8m-720kc) Arthur Budding, baritone.

WJUC (445.9m-630kc) Silk City, flute band.

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WIP (508.2m-509kc) Circle opera recital.

WEAF (491.5m-610kc), WEEI (348.6m-669kc), WFTY (370.5m-700kc), WGR (310m-940kc), WFI (384.5m-700kc), WYAG (440.3m-830kc), WSAI (325.3m-820kc), WTAM (322.5m-819kc), WJUC (445.9m-630kc), WJAN (302.5m-809kc), WCCO (416.4m-720kc), KSD (385.1m-839kc), WDAF (365.8m-829kc), WOC (483.6m-629kc), WRC (460.5m-849kc), acts 1 and 2 of Wagner's Meistersinger, by Walter Dierosch.

WGR (405.2m-749kc) Washington Heights musical club.

WFAA (475.9m-630kc) G Haydn Jones.

WDAP (365.6m-830kc) "Hale and Derry."

WBAF (475.3m-629kc) Sunflower Girl.

WCCO (416.4m-720kc) Madame Sesslarhus, Gdn male chorus.

WMAQ (447.5m-670kc) Pratt and Sherman, popular songsters.

WIP (508.2m-509kc) Gebel, pianist, organist.

WCCO (416.4m-720kc) Geo. Osborn's Curtis orchestra.

WSD (428.3m-1049kc) "The Tavern by the Road."

WJAS (385.8m-720kc) Arthur Budding, baritone.

WJUC (445.9m-630kc) Silk City, flute band.

WIP (508.2m-509kc) Circle opera recital.

WEAF (491.5m-610kc), WEEI (348.6m-669kc), WFTY (370.5m-700kc), WGR (310m-940kc), WFI (384.5m-700kc), WYAG (440.3m-830kc), WSAI (325.3m-820kc), WTAM (322.5m-819kc), WJUC (445.9m-630kc), WJAN (302.5m-809kc), WCCO (416.4m-720kc), KSD (385.1m-839kc), WDAF (365.8m-829kc), WOC (483.6m-629kc), WRC (460.5m-849kc), acts 1 and 2 of Wagner's Meistersinger, by Walter Dierosch.

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WCCO (416.4m-720kc) Madame Sesslarhus, Gdn male chorus.

WMAQ (447.5m-670kc) Pratt and Sherman, popular songsters.

SATURDAY, FEBRUARY 5

Headliners

Table with columns for Eastern, Central, Mountain, and Pacific time zones, listing station call letters, frequencies, and program details.

Regular Saturday Features

Eastern Time Stations

Table listing Eastern Time Stations with columns for station call letters, frequencies, and program details.

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THE ROLL-O RADIO CO. Dept. S-12, 3rd & Sycamore Sts. CINCINNATI, OHIO

Central Time Stations

CKY Winthrop, Conn. (354.4m-790kc) 12 a. m. Wesley church; 7:15 p. m. First English Lutheran church; 9-11, Royal Alexandra hotel.

KFAB Lincoln, Neb. (346.7m-880kc) 9-10:30 p. m. Sunday evening music.

KFBI Wichita, Kan. (269m-1120kc) 7 p. m. church service.

KFNF Shennandoah, Iowa (461.2m-895kc) 10-11 a. m. service; 2:30 p. m. Speed House song service; 3, program; 6:30, Golden Rule Circle.

KLDS Independence, Mo. (446.9m-890kc) 8-10 a. m. Bible study; 11, 5:00 church; 3 p. m. Radio church; 6:30, vesters; 9:15, studio service.

KMA Shennandoah, Iowa (461.2m-895kc) 4-5 p. m. sacred program; 7:30-8:30, service.

KMOX St. Louis, Mo. (280.2m-1070kc) 4 p. m. Fourth Church of Christ, Scientist; 9, Sunday night club; 10:30-12, ballroom.

KOHL Council Bluffs, Iowa (316.2m-930kc) 11 a. m. First Congregational church; 7, children's hour; 7:30, program; 11, Paganini orchestra.

KPRC Houston, Texas (299.5m-1000kc) 7:30 p. m. church service; 9:30, evening concert; 11, Texas theater pipe organ.

KSD Clarinda, Iowa (493.2m-740kc) 11 a. m. M. E. church.

KTHS Hot Springs National Park, Ark. (374.2m-860kc) 11 a. m. 12:15 p. m., service; 9-9:45, Meyer Davis ensemble, classic hour concert; 10, organist; 10:30-11:30, Arkansas Traveler Radio Train.

KVDO Bristol, Okla. (374.2m-860kc) 1-2 p. m. Walter Schragan, Doris Kimmay; 3-6, Gospel songs; 6-7, Sophia Daina, pianist; 7-9, services; 12-1, Melody Boys.

KYW Chicago, Ill. (325.4m-900kc) 11 a. m. Central church service; 4:30 p. m. studio concert; 7-8:30, Sunday evening club; 9:30-11, classical concert.

WRAP Fort Worth, Texas (418.9m-880kc) 11 a. m. First Methodist; 12:30-1:30 p. m. vesper; 3-5, vesper services; Baptist seminary; 9:30-11, Scribner White Texas hotel orchestra.

WBBM Chicago, Ill. (226.4m-1000kc) 8 p. m. Cook-Sanders Night Hawks; 9-12, music; 12, Nutsy club; Cook-Sanders orchestra.

WCBD Zion, Ill. (344.6m-870kc) 4 p. m. Sunday evangelistic.

WCCO Minneapolis-St. Paul, Minn. (416.4m-770kc) 10:50 a. m. services; 4:10 p. m. House of Hope Presbyterian church; 6:20, Second Church of Christ, Scientist; 8-15, WEAF; 9-15, musical program, Chicago Indians; 10, St. Paul Municipal organ recital; Hugo Philier Goodwin.

WCFL Chicago, Ill. (481.5m-810kc) 2-4 p. m. fellow-ship club; 7-8, Beethoven Avenue Baptist church.

WDAF Kansas City, Mo. (365.5m-920kc) 2-4 p. m. Star's orchestra; 4-4:45, vesper.

WBBH Chicago, Ill. (370.2m-810kc) 10:35 a. m. Seventh Church of Christ, Scientist; 5-6 p. m. twilight musical; 7-9, artistic program.

WEMC Baraboo Springs, Mich. (312.5m-950kc) 11 a. m. studio sacred service; 8:15 p. m. chapel.

WENR Chicago, Ill. (283.5m-1130kc) 2-4 p. m. classical program; 9:30-10:30, classical program; 10:30-12, Sanovar orchestra.

WFAA Dallas, Texas (475.2m-810kc) 6-7 a. 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. (302.5m-990kc) 6:45-7 p. m. Blackstone string quintet, solo artists; 7, The Motion Sing; 7:30, Old Fashioned Minstrel; 7:35, Drake concert ensemble; Currell and Gosling; 8, Auld Sandy; 8:15, WEAF; 9:15, Dan Mason; 10, Sam 'n' Henry; 10:10, Armand Buissonet, violinist; 10:20, Bible reading; 10:25, piano.

WHD Milwaukee, Wis. (275.1m-1090kc) 3:15 p. m. burlesque concert.

WHAS Louisville, Ky. (339.5m-790kc) 10 a. m. services; 9:30-9:50 p. m. church evening; 6:30, WEAF; 9-15, WEAF.

WHB Kansas City, Mo. (368.5m-920kc) 9:40 a. m. Lincoln Blvd. Christian church; 11:10-12:30, Independence Blvd. Christian church; 7-7:45, Dr. Harris A. Jenkins; 8-9, Wesleyan Methodist church; 11:15-1, Minnie Mize, organist; Dan Arizona, poet.

WHO Des Moines, Iowa (526m-670kc) 11 a. m. service; 5-6 p. m. Bankers Life Little symphony; 7:30-8:35, orchestra; 11-12, musical program.

WHT Chicago, Ill. (399.5m-750kc) 1-12 midnight, Paul Kader.

WJAZ Chicago, Ill. (329.5m-910kc) 4:30-9 p. m. Sunday evening concert.

WJLD Moorhead, Ill. (376.2m-810kc) 7:45-8:45 a. m. Catholic services; 9:20-10:30, 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.

WLJB Chicago, Ill. (362.5m-890kc) 5-6:15 p. m. Herbert Johnson, pianist; Leon Liechtenfeld, vocalist; Tommy Coates, baritone; Eliaquime string quartet.

WLS Chicago, Ill. (344.4m-930kc) 10-11 a. m. University of Chicago service; 12:15, Elsie Mae Long, organist; 12:35-2:30, chapel service; 6-8, WLS Little Brown church.

WMBB Chicago, Ill. (249.5m-1200kc) 2-4 p. m. Sunday afternoon concert; 7-9, Fifth Church of Christ, Scientist; 8-11, Youngs orchestra artists.

WMC Memphis, Tenn. (499.7m-620kc) 11 a. m. church service.

WDAI San Antonio, Tex. (294.5m-960kc) 11 a. m. First Presbyterian church; 7:45, Central Christian church.

WDF Davenport, Iowa (403.5m-820kc) 1-2 p. m. old folk's musicale; 6:30-7, church service; 8:15-9:15, WEAF; 10-11, Palmer Little symphony.

WDO Kansas City, Mo. (278m-1060kc) 11 a. m. Unity service; 7 p. m. evening service; 7:45, Grand Avenue Methodist church.

WORD Chicago, Ill. (275.1m-1030kc) 10 a. m. I. B. S. A. service; 2:30 p. m. Chicago Radio Tenorist company program; 3:30, Bible lecture; 7, Webster hotel duo orchestra; 9, L. B. S. A. choral singers.

WOW Omaha, Neb. (526m-770kc) 9 a. m. Omaha Gospel talent; 1:30 p. m. Father Flanagan's Boys' home period; 6, Bible study; 9, chapel service.

WQJ Chicago, Ill. (447.5m-670kc) 10:45 a. m. 12:45 p. m. popular; 3-4, musical program; 5-10, popular program; Basilio Gardens orchestra; Jack Klein, Adelaide Kerkoff, Harry Geise.

WRR Dallas, Tex. (348.5m-1200kc) 11 a. m. service; 8 p. m. service; 9:30, program.

WSH Atlanta, Ga. (429.5m-700kc) 6:20 p. m. WEAF; 8-15, WEAF.

WSBC Chicago, Ill. (288.5m-1000kc) 5-7 p. m. Sunday concert; 9-11, concert.

WSM Nashville, Tenn. (282.5m-1000kc) 6:20 p. m. WEAF; 9-15, WEAF.

Mountain Time Stations

KOA Denver, Colo. (322.4m-910kc) 10:30 a. m. church service; 3 p. m. afternoon musicale; 6:30, organ; 7-8, church service.

Pacific Time Stations

KFI Los Angeles, Calif. (467m-620kc) 7-8 p. m. Jack Smith's dance orchestra; 8-9, Aeolian organ recital; 9-10, Bob Rotger's Vesticians; 10-11, Packard Six dance orchestra.

KFWB Hollywood, Calif. (252m-1090kc) 9-11 p. m. Warner Brothers Sunday night movie studio.

KGO Oakland, Calif. (361.2m-830kc) 11 a. m. service; 2-4 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; 7:20-9 p. m. church; 9-10, symphony orchestra.

KHJ Los Angeles, Calif. (462.2m-700kc) 7-8 p. m. service, First M. E. church; 8-10, Request program by Orpheus Four male quartet and Frederick MacMurray, solo artist.

KMYR Hollywood, Calif. (376.2m-810kc) 6:30-7 p. m. Lela Carberry's half hour; 7-8, Cafe Lafayette string quartet; 8-9:30, orchestra.

KNX Hollywood, Calif. (336.5m-890kc) 6:30 p. m. service.

KPO San Francisco, Calif. (428.5m-700kc) 6 p. m. States Restaurant orchestra; 6:15, Palace hotel concert orchestra; 8:25-10, Rudy Seiger's Paramount hotel concert; 10-12, Trianon ballroom.

KPSN Pasadena, Calif. (315.5m-950kc) 10:30 a. m. Family Altar service, United Brotherhood.

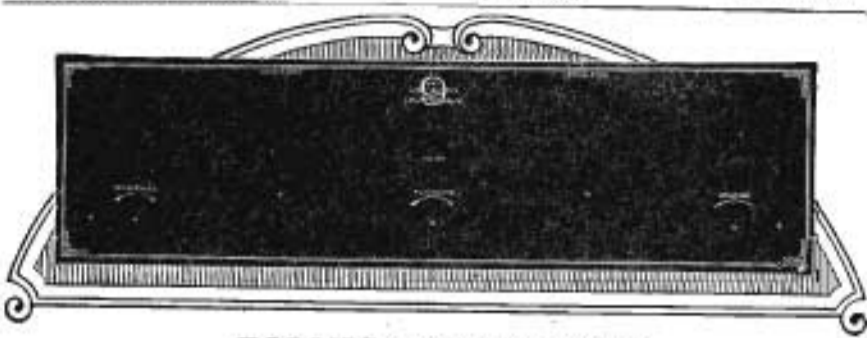
Sunday, silent night for: CKAC, CKNC, CNRW, KFDY, KFXP, KLL, KMA, KOB, KSWC, KWWG, WABC, WCPA, WCPA, WDAF, WEBB, WFL, WGRF, WGRB, WGRP, WHAD, WHAS, WJBL, WJL, WLIT, WLWL, WMAJ, WMC, WNYC, WOI, WOD, WOR, WSMB, WRVA, WSW, WTC.

MONDAY, FEBRUARY 7

Headliners

Eastern	Central	Mountain	Pacific
7:15 p. m.	6:15	6:15	4:15
WJR (50.6m-590kc) "Radiojazz."			
	7	6	8
WLW (412.2m-710kc) Ford and Glenn.			
WMAE (265.5m-1130kc) John-Manville Military band.			
8:30	7:30	6:30	6:30
KPRC (299.5m-1000kc) Houstoniana.			
WBA (325.4m-900kc) Wood Wind ensemble.			
8:40	7:45	6:40	6:40
WGBF (326m-1270kc) Gospel trio.			

Eastern	Central	Mountain	Pacific
8:10 p. m.	6:10	7:10	6:10
WEVA (256.3m-1170kc) Mrs. Pearl Davis Martin, artist.			
9:30	8:30	7:30	6:30
KFAS (340.7m-880kc) "Mike" Kovic from piano.			
KPRC (299.5m-1000kc) "Il Trovatore," fourth act.			
WHAD (275.1m-1030kc) Atlas quartet.			
9:45	8:45	7:45	6:45
WMAE (265.5m-1130kc) Fern-Besseler orchestra.			
10	9	8	7
KOIL (305.9m-880kc) play, "If I were King."			
KPRC (299.5m-1000kc) Severin Frank, artist pianist.			
WEAF (421.5m-610kc) "Cavalleria Rusticana," grand opera.			



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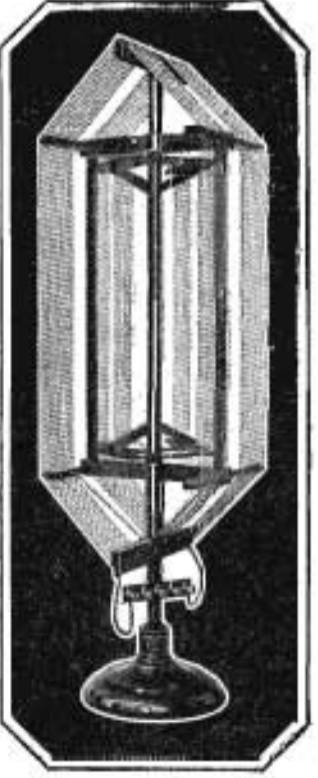
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Chicago, Ill., Oct. 15, 1926. "I wish to take this opportunity to state that I have built twenty-four Counterphase-Sixes during the past year and the parties now using them would not trade them for any set on the market, which, to say the least, speaks well for the quality of your products." F. H. J.

Oakland, Calif., Dec. 27, '26. "My husband built a Counterphase-Six, but I operate it. I have had wonderful results with it to date. I have logged 109 stations, including Havana, Japan and New York—all on loud speaker. I live within three blocks of KGO, a 5000 watt station, and have no trouble." Mrs. W. H. N.

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Eastern Central Mountain Pacific
 10:15 p.m. 9:15 8:15
 KDA (322.5m-930kc) Ralph Hessel, xylophonist; artists.
 WFLA (775.1m-1090kc) Harpsichord hour.
 10:30 9:30 8:30
 KXK (336.9m-890kc) Playlet.
 WZAP (475.5m-830kc) Blue Moon Entertainers.
 11 10 9
 KOIL (305.9m-990kc) "Nose and Charlie."
 11:30 10:30 9:30
 KTHS (374.5m-810kc) Natalie Aronov, violinist.
 12:30 11:30 10:30
 WBAZ (475.5m-830kc) Lawrence Smith, pianist.
 WBAZ (475.5m-830kc) Campus Sereaders.

Regular Monday Features
Eastern Time Stations

CFCB Toronto, Can. (356.5m-840kc) 6:15 p. m. dinner concert; 7:15, organ recital; Clifford McCornick.
 KDKA Pittsburgh, Pa. (306.1m-970kc) 8 p. m. concert.
 WAFB New York, N. Y. (315.5m-850kc) 7:30 p. m. talk; 8:30, ensemble; 9, Barnum ensemble; 12, dance orchestra; 1 p. m. vaudeville.
 WBAL Baltimore, Md. (346m-1220kc) 5:30-7:30 p. m. dinner orchestra; 7:30-8, organ recital; Frederick Weaver; 8-9, musical program; 9:10-10, ensemble; 10:11, concert; 11-12, dance orchestra.
 WBZ Springfield, Mass. (333.1m-960kc) 7 p. m. organ; 7:30, talk; 8, orchestra; 8:30, trio; 9, band; 9:30, feature; 10-12, music.
 WCAE Pittsburgh, Pa. (461.3m-850kc) 6 p. m. William Penn hotel orchestra; 7:45, talk; 8, program; 8:30, WEAF; 9-11, WEAF; 11, Penna. folk.
 WCAU Philadelphia, Pa. (277.5m-1030kc) 7:30 p. m. Schenck recital; 8, Skiller's Skyscrapers; 8:25, recital; 8:45, Henry Skyscrapers; 9:30, trio; music; 10:30, Parson's dance orchestra.
 WCX Detroit, Mich. (305.3m-860kc) 6:5 p. m. dinner program; Goldkette ensemble; 8, studio program.
 WDBO Winter Park, Fla. (329.3m-1230kc) 8:35 p. m. circus talk; 9:10, musicals.
 WEAU New York, N. Y. (491.5m-810kc) 6 p. m. dinner concert (regular); 7:15, Columbia University talk; 8, old time minstrel; WLIJ, WSAJ, 8:30, Five's Harpisters; WEEA, WGR, WLIJ, WRC, WCAE, WTAM, WWJ, KSD, WCOJ; 9, A. & P. Gypsies; WEEA, WJAR, WJSH, WCAE, WTAM, WLIJ, WWJ, WDAF, WSAJ; 10, WEAF Grand Opera company; WJAR, WCOJ, WCAE, WJSH, KSD, WDAF, WSAE, WLIJ, WWJ, WRC; 11, Radio's Valis D.D. orchestra.
 WEEI Boston, Mass. (346.5m-860kc) 6:45 p. m. Big Brother club; 8:30-10, WEAF; 10, music.
 WFI Philadelphia, Pa. (394.3m-760kc) 6:45 p. m. Adelphi French Song orchestra.
 WGBS New York, N. Y. (315.5m-850kc) 6 p. m. trial; 8:45, article program; 10, dance program.
 WCHP Detroit, Mich. (278.1m-1110kc) 6-8 p. m. dinner concert; Hotel Tuller; 8-8:30, Little Symphony orchestra; 8:30-9:30, famous composer's hour; 9:30-10, radio program.
 WGB Buffalo, N. Y. (312m-940kc) 6:30-7:30 p. m. dinner music; 8:30, musical; 9-10, dance program; 10:11, supper music.
 WGY Schenectady, N. Y. (378.5m-790kc) 6:30 p. m. dinner music; Hotel Van Carter.
 WHAZ Troy, N. Y. (379.5m-790kc) 8-12 mid. music talk.
 WHK Cleveland, Ohio (372.5m-830kc) 7-9 p. m. specialty night; 9-10, studio concert; 10-10:30, trio.
 WHN New York, N. Y. (361.2m-830kc) 6:30 p. m. WHN Radio Movie club; 8:30, Roelandt dance orchestra; 10:30, orchestra; 11, entertainers; 11:30, Cotton club orchestra.
 WICC Bridgeport, Conn. (322.5m-1290kc) 7 p. m. children story; 8, theater presentation; 10, orchestra; 11, Buggy Riders.

WIP Philadelphia, Pa. (358.3m-890kc) 6:10 p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; dancing lessons.
 WJAR Providence, R. I. (465.1m-810kc) 8 p. m. music; 9-11, WEAF.
 WJAX Jacksonville, Fla. (336.5m-890kc) 7:30 p. m. Hotel Carling dinner music; 8:10-10, popular program; 11-12, Aradae theatre.
 WJR Detroit, Mich. (516.5m-890kc) 7 p. m. Jean Collette's Petite symphony orchestra, soloists; 7:15, Caspar Lingsma instrumental; 8, studio program.
 WJZ New York, N. Y. (454.3m-860kc) 7 p. m. Medical center development; 7:30, orchestra; 8, program; 8:30, Willys Overland program; 9:30, Record Boys; 10, to be announced; 11-12, orchestra.
 WKRC Cincinnati, Ohio (422.3m-710kc) 6:15 p. m. Hotel Almas orchestra; 8, musicale.
 WLIJ Philadelphia, Pa. (334.5m-790kc) 7:55 p. m. Schenck weathercast; 8, WEAF.
 WLW Cincinnati, Ohio (422.3m-710kc) 7 p. m. orchestra; 7:40, orchestra; 8, Ford and Glyn; 9, orchestra.
 WLWL New York, N. Y. (388.3m-1040kc) 8 p. m. musicale; 8:30, Mackay concert; 10, tenor; 10:15, ensemble.
 WMAK Buffalo, N. Y. (265.3m-1130kc) 6:15 p. m. dinner music; 7:30, dance program; 8, band; 9, music; 10, music.
 WMBF Miami Beach, Fla. (384.4m-700kc) 7 p. m. orchestra; 8, popular program; 10, dance orchestra.
 WMCA New York, N. Y. (340.7m-860kc) 6:30 p. m. Ernie Golden's Hotel McAlpin orchestra; 7, Harry Cooper; 7:15, orchestra; 7:30, Hungarian orchestra; 8, talk; 12, entertainers.
 WNYC New York, N. Y. (526m-870kc) 6 p. m. Piano selections.
 WOD Philadelphia, Pa. (356.3m-890kc) 8, organ recital; Mary E. Vogt; 8:30, address; Rev. Forest E. Dager; 9, concert; 10:30, dance orchestra.
 WDR Newark, N. J. (465.2m-740kc) 6:15 p. m. famous artist; Hotel Shelton ensemble; 8:45, Bill Wathley 10 sports; 9, Jacques Jambor; Hotel Shelton ensemble; 8:45, N. Y. U.; 11, orchestra.
 WPG Atlantic City, N. J. (398.8m-1090kc) 7:10 p. m. Arthur Brook, organist; 7:30, Hotel Morton dinner music; 8:05, Hotel Shelton dinner music; 8:30, program; 10:30, music; 11, dance orchestra; 12, Broadway Casino.
 WRC Washington, D. C. (465.2m-860kc) 7:20 p. m. WEAF; 8:15, WEAF.
 WRVA Richmond, Va. (286.3m-1170kc) 8:15, Evening program; 9, Virginia Folk Song; Dr. Douglas S. Freeman; 9:10, music; 11, Hotel Richmond Winter Garden orchestra.
 WSAJ Cincinnati, Ohio (325.3m-920kc) 8-11 p. m. WEAF; 11, dance music.
 WSKC Bay City, Mich. (300.7m-1130kc) 9-11 p. m. dance music.
 WTAC Worcester, Mass. (346.1m-860kc) 8 p. m. program to be announced.
 WTAM Cleveland, Ohio (348.3m-780kc) 6 p. m. orchestra; 7, Allen Tucker orchestra; 8, orchestra; 8:30, WEAF; 9, WEAF; 10, studio concert; 11, Sherman Gill and Bamboo Garden orchestra; 11:30, orchestra.
 WTC Hartford, Conn. (415.5m-830kc) 6 p. m. Mother Goose; 4:30, Hotel Hotel trio; 7, program; 11, Walter Dawley, organist.

WWJ Detroit, Mich. (352.7m-840kc) 6 p. m. Dinner concert; 8, musical program; 9, WEAF.
Central Time Stations
 CKY Winnebago, Can. (384.5m-780kc) 8:30-9 p. m. Studio program; 9-10, Stewart Warner concert; 10-11, Halibute battery hour; 11-12, Capitol theater review.
 KFAB Lincoln, Neb. (340.7m-890kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, musicale.
 KFNP Shennandoah, Iowa (461.3m-850kc) 7 p. m. Seed concert; 11, old time music.
 KMA Shennandoah, Iowa (461.3m-850kc) 9-11 p. m. Farham trio.
 KMOX St. Louis, Mo. (330.3m-1070kc) 6 p. m. Organ; 6:30, quartet; 7, quartet; 8, quartet; 9, sextet; 10, orchestra; 12:1, orchestra.
 KOIL Cooness Bluff, Iowa (305.3m-860kc) 7:00 p. m. Hotel Lassen program; Don Hill and his ukulele; 7:30, musicale; 8, program; 9, play; 10, Crosley hour; 11, program.
 KPRC Houston, Texas (299.5m-1000kc) 7:30 p. m. Houstonians; 8:30, concert; 9, studio concert; 11, concert.
 KSO Clarinda, Iowa (465.2m-740kc) 6:30 p. m. old-time music.
 KTHS Hot Springs National Park, Ark. (374.8m-890kc) 9-11:20 p. m. musicale.
 KVOD Bristol, Ohio (384.5m-890kc) 6-7 p. m. Warner trio; 7-8, quartet; 8-9, Luskay's orchestra; 11, Earl Furstenberg organist.
 WFAF Fort Worth, Texas (475.5m-830kc) 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) 8:15 p. m. St. Paul hotel orchestra; 8, U. of Minn.; 9, Vaudeville; 10:10, dance program; 11:30, organ.
 WCOA Pensacola, Fla. (328m-1190kc) 6:30 p. m. WCOA baptist period.
 WDAF Kansas City, Mo. (365.5m-820kc) 6-7 p. m. school of the air; 8-9, WEAF; 9-10, WEAF; 11:45-12, Nighthawk frolic.
 WEMC Harrison Springs, Mich. (318.6m-950kc) 8:15 p. m. Lighthouse Music Makers.
 WFAA Dallas, Texas (478.3m-830kc) 6:30-7:30 orchestra; 8:30-9:30, Sears-Roebuck Agricultural Foundation program.
 WGBF Evansville, Ind. (328m-1290kc) 7 p. m. radio-graph; 7:30, children's program; 7:40, Gospel trio; 8, radio program; 9, orchestra.
 WHAD Milwaukee, Wis. (375.1m-1030kc) 6:15-7 p. m. dance selection; 7, news; 8:30-9:45, program; 9:45-11, dance program.
 WHB Kansas City, Mo. (365.5m-820kc) 7 p. m. Sweeney Radio orchestra.
 WHO Des Moines, Iowa (326m-870kc) 7:30-8 p. m. music; 8-9, dance orchestra; 11-12, dance program.
 WLS Chicago, Ill. (344.5m-830kc) 5:40 p. m. Al McLaughlin, organist; 6, sponsored program; 6:40, Maurice Sherman's College Inn orchestra.
 WMC Memphis, Tenn. (489.7m-840kc) 8:30 p. m. Melody Makers; 9:30, Movie club.
 WQJ Kansas City, Mo. (378m-1080kc) 6:15 p. m. Unity Inn orchestra.
 WOS Jefferson City, Mo. (440.3m-840kc) 7:30 p. m. program.

WOW Omaha, Neb. (326m-870kc) 6 p. m. Joe Fater and his Highway (studio orchestra; 6:50, classical; 9, Nash-Fatch orchestra.
 WRR Dallas, Tex. (445.3m-830kc) 6 p. m. music; 8, band; 9:30, frolic.
 WSB Atlanta, Ga. (422.3m-790kc) 8 p. m. Sears-Roebuck program; 10:45, program.
 WSM Nashville, Tenn. (282.3m-1080kc) 6:45 p. m. dinner concert; 8, Radio Seven; 9-10, musical.
 WSMB New Orleans, La. (318m-840kc) 8:30 p. m. dance night; 11:30, Radio varieties.
 WSOE Milwaukee, Wis. (345.5m-1220kc) 7 p. m. program; 8, Whodit.

Mountain Time Stations

KDA Denver, Colo. (322.5m-830kc) 8 p. m. Scheurer's Colorado orchestra; 8:15, studio program.
 KOB State College, N. M. (388.6m-860kc), 7:30 p. m. State College orchestra.

Pacific Time Stations

KFI Los Angeles, Calif. (697m-642kc) 7-8 p. m. Owen Fallon's Californians; 8-9, popular program; 9-10, program; Walter M. Murray Motors Co.; KFU; 10-11, program by Melichamp Brothers.
 KFWS Hollywood, Calif. (352m-1190kc) 6-7 p. m. Postcard dinner hour; 7:50, news; 8-9, program; 9-10, program; 10-11, Warner Brothers frolic.
 KGO Oakland, Calif. (381.2m-830kc) 6-6:55 p. m. Stanislas Ben's Little symphony.
 KGW Portland, Ore. (491.5m-810kc) 7:45-8 p. m. talk; 8-9, vaudeville; 9-10, orchestra; 10-12, dance music.
 KJR Seattle, Wash. (384.4m-750kc) 4:30 p. m. dinner hour; 6-8:30, program; 8:30-10 program.
 KLBX Oakland, Calif. (566.2m-890kc) 8-9 p. m. Studio program; Pizely Wiggy company; 9-10, Lake Merritt Ducks.
 KMTB Hollywood, Calif. (370.2m-810kc) 9-10, program; 10-12, Talk de Dances.
 KNX Hollywood, Calif. (328.3m-890kc) 7:30 p. m. playlet; 8, program; 9, feature; 10, feature; 11, frolic.
 KPO San Francisco, Calif. (428.3m-760kc) 6:30-7 p. m. States Restaurant orchestra; 7:30, Rudy Seiger's Fairmount hotel concert orchestra; 8-9, music; 9-10, studio program; 10-11, Mandarin cafe orchestra; 11-12, variety hour.
 KWSC Pullman, Wash. (348.8m-860kc) 7:30 p. m. students concert.

Monday, allent night for: CFCB, CKAC, KFDM, KFDY, KGO, KJH, KLDG, KPSN, KYW, WBBM, WCBQ, WCFL, WEDB, WERJ, WENR, WFI, WGBF, WGBS, WGES, WGN, WGY, WHAS, WHT, WIBO, WIP, WJAZ, WLJD, WLJB, WLS, WMAQ, WMBB, WQAL, WOC, WOK, WORD, WQJ, WSAJ, WSWB.

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 For Radio Work
 Made Sr. Lieut. Naval Reserves For Great Radio Advancements—Free Details Sent to All
 Only a little over 21 years of age, but as a result of his work, now a Senior Lieutenant in the United States Naval Reserves—is the record of Sterling G. Sears, called one of the foremost Radio Experts in America.
 His latest development—an amazing 5-tube Radio—with marvellous volume and tone quality, greatly simplifies and improves home reception, but reduces usual cost 60 to 75%. In addition to its almost unbelievable low cost, are natural reproductions of tone values (music or voice) and the quick and simple ease of home installation and operation.
 For the benefit of those interested in better Radio reception and those who now own no Radio, but would like to have a really good one at very little cost—it has been arranged to supply free information and description about "The Sterling Five" to all who write Gen. W. Nayler, Jr., Dept. 1251, 161 Chambers St., New York City. If you want to know all about it, write at once. Your inquiry will only cost you a 2c stamp and implies absolutely no obligation.

DANGER!
 Why risk life and limb erecting an outside aerial?
 Play safe by using Etizane Antennae.
 Hang one indoors in 30 seconds, following directions we furnish, and get strong, clear reception. No danger of a fall.
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 Just give us your name and address and we will send you your antenna free of charge. You take no risk. Send order now.
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 133 West Central Parkway, Cincinnati, Ohio

Radio dealers recommend and use the ekko Ground Clamp
 because it eliminates the high percentage of radio troubles due to faulty ground
 Imperfect ground contacts are responsible for a high percentage of all radio troubles. The ekko Clamp eliminates these troubles by insuring perfect contact. Radio dealers know this. That is why they include an ekko Clamp with radio set installations and why they instruct their service crews to use it in replacing old faulty grounds.
 The hardened steel points of the ekko Clamp bite through paint, rust, dirt, corrosion or any other insulation. Its positive contact makes sure a free flow of current and full signal strength. Easy to use. Ground wire screws to Clamp. Clamp attaches to nearest pipe by a few turns of the screw. Non-corrosive and permanent. Sturdy. Finished in white nickel. Fits 1/4 to 1 1/4 inch pipe. At your dealer's. **25¢**
Radio Dealers:
 The ekko Clamp is supplied in lots of ten in an attractive counter display that helps you sell this most popular of all ground clamps.
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 111 West Monroe Street
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Laugh This One Off—
 For \$8.95 Complete
 A Dor-Ann "B" Battery Eliminator with an output of 100 milliamperes and a condensing capacity of 180 microfarads. Will operate any radio set, from 1 to 20 tubes on A.C. or D.C. current.
 Neat, sealed and ready for use. It weighs 6 lbs. Measure, 3 1/2 x 8 1/2 by 7 inches. Beautifully designed in maroon and gold container. Approved and passed by rigid laboratory tests. Equal to any "B" eliminator, regardless of price.
MONEY BACK GUARANTEE
 You are fully protected. To prove our claims for the Dor-Ann "B" Eliminator we will allow you to make a full months test. If at the end of the month you are not satisfied we will refund you your money.
 Shipment made direct on receipt of \$8.95 or C. O. D. if preferred. Use coupon at right.
DOR-ANN MFG. CO., 204 N. Sheldon St., Chicago, Ill.

Dor-Ann Manufacturing Co.
 204 N. Sheldon St., Chicago, Ill.
 Send at once, payment enclosed.
 Send C. O. D.
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 Address
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TUESDAY, FEBRUARY 8 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Tuesday, February 8.

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Tuesday, February 8.

"Regular Features" and "Silent Nights" are the same as for Friday, February 4, and will be found by referring back to that date.

SATURDAY, FEBRUARY 12 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, February 12.

"Regular Features" and "Silent Nights" are the same as for Saturday, February 5, and will be found by referring back to that date.

SUNDAY, FEBRUARY 13 Church Services

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists church services for Sunday, February 13.

"Regular Features" and "Silent Nights" are the same as for Saturday, February 5, and will be found by referring back to that date.

WEDNESDAY, FEBRUARY 9 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Wednesday, February 9.

"Regular Features" and "Silent Nights" are the same as for Wednesday, February 2, and will be found by referring back to that date.

THURSDAY, FEBRUARY 10 Headliners

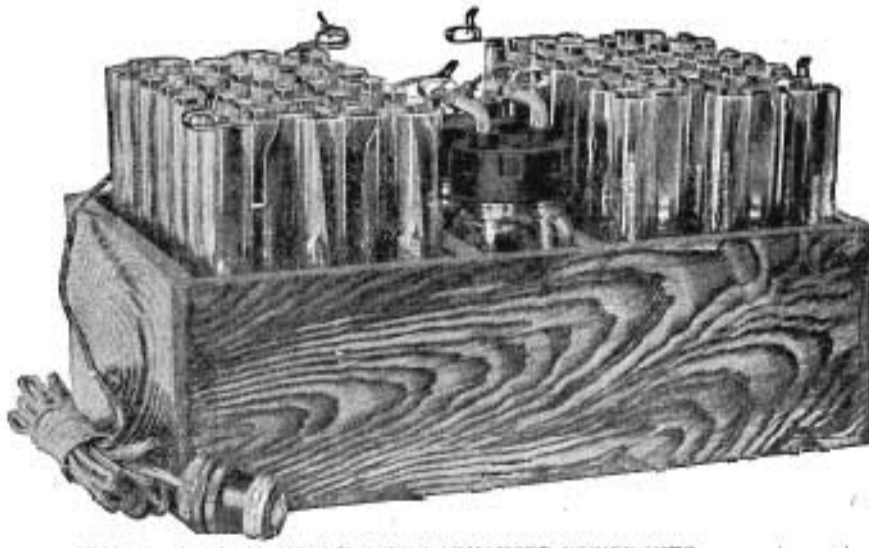
Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Thursday, February 10.

"Regular Features" and "Silent Nights" are the same as for Thursday, February 3, and will be found by referring back to that date.

FRIDAY, FEBRUARY 11 Headliners

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

90 Volt "B" Power Unit \$12.75



UMOR has had it this NEW HAWLEY ADVANCED POWER UNIT was coming—and here it is. Hawley Storage "B" batteries have been standard for over 5 years and the same quality—the same standard of workmanship...

B. Hawley Smith, 325 Washington Ave., Danbury, Conn., U. S. A. Mfr. of—"A" Power Units, "B" Power Units, "A" Storage Batteries, "B" Storage Batteries and A & B Chargers, including Trickle.

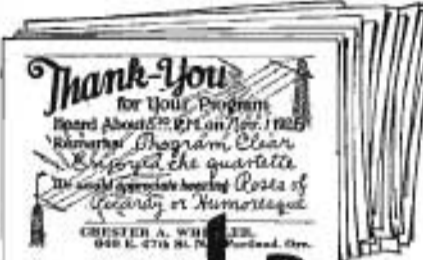
Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, February 14.

MONDAY, FEBRUARY 14 Headliners

Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, February 14.

"Regular Features" and "Silent Nights" are the same as for Sunday, February 6, and will be found by referring back to that date.

Applaud Your Favorites Hear What YOU Like



Applause Cards 1/2 Price and FREE LOG Extra

TO INTRODUCE these personal applause cards we cut our regular price right in two and include a free-log on first order for limited time only. Postcard books. Quality cards and pricing. Special radio design. Stations gladly put on numbers you request. Our special individual cards get immediate ATTENTION. Artists and stations request and appreciate applause cards. Applaud them when they please you. You and your children will enjoy it.

FREE LOG

With first order—and a special introductory half price for 100 cards—\$1.45; 200—\$2.95; 300—\$4.45; 500—\$7.45. Money refunded if not satisfied. Send No Money. Just pay postpaid when you get cards and FREE log. Prepaid if pay with order. Write today—NOW—while introductions offer lasts. Postal order best with at once.

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Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, February 14.

GOLD WAVE AERIAL



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Something New! CENTRALAB Short Wave SELECTOR



AT last here it is—the invention that a million set owners have waited for! Centralab Short Wave Selector increases selectivity at the shorter wave lengths, between 220 and 325 meters, where greatest interference now occurs. Instead of short wave length locals coming in all over the dials, programs can now be more readily separated. Stations on wave lengths reasonably close to local can be tuned in without interference. Only stations on the same wave length, or those so close that they heterodyne, are beyond the selectiveness of this new device. The improvement on the average radio set is so great that we unconditionally guarantee: If you are not more than pleased and delighted, return the Selector in good condition to wherever you bought it for full refund of your money without question.

NOT a wave trap. NO adjustments. Centralab Short Wave Selector (illustrated life-size) is attached permanently, by its two binding posts, between antenna lead-in and antenna binding post. Has switch to cut in or out of circuit at will. Tuning in all on the dials of the set. Anyone can install and use it.

[If your dealer is not supplied, send us a dollar bill (\$1.00). Prompt shipment guaranteed.] CENTRALAB RADIO LABORATORIES 12 Keefe Ave. Milwaukee, Wis. Centralab Controls are Standard on 69 Well Known Radio Sets.



BREMER-TULLY'S NEW POWER SIX

By GEO. R. IVES
Part II.

BEFORE starting the wiring of the Power-Six, remove the panel from the baseboard. With the kit of parts the makers furnish a schematic drawing in colors showing how to wire this set. As this system is very simple and is hard to beat, it is suggested that their



purple and yellow. After all wiring is completed carefully check with the schematic drawing.

A and B Power Units

The next step is to prepare the A and B current supply units. One of the greatest achievements in Radio last year was the Abox Filter. This was designed to supply the filament current for any Radio set employing up to six standard six-volt tubes. The Fil-



Instructions be very carefully followed out.

After all of the leads shown in black, with the exception of the wires to the filament switch and the rheostat, and those in green are completed, attach the panel to the baseboard. Complete the wiring to the filament switch and rheostat, and the other wires in the following order: red, blue,

for circuit consists of a choke coil and two Andrews electrolytic condensers which operate on a new principle. To complete the filament current supply, a Balkita Model J charger, with a charging rate of 2 1/2 amperes, is used.

After the Abox Filter has been prepared according to the manufacturer's instruc-

tions accompanying the unit, attach a wire from the A+ and A- binding posts to the A+ and A- binding posts respectively of the set. Connect the red cable accompanying the charger from the charger binding posts marked "6-volts charge" to the charger + post on the Filter. The negative wire on the charger is then connected to the charger - post on the Filter.

By plugging the charger into the light socket a dependable, humless filament supply is always available. It must be remembered that it is necessary to turn off the current at the light switch, otherwise the charger will continue to operate. With this feature in mind, turn on the set's filament switch and leave it on. Turning off the light socket switch shuts off all power, both A and B, as you will see later.

Connection of B Power

The "B-T" B power unit is recommended for this set because it will amply accommodate power tube and all resistances are fixed. By a unique arrangement of plugs, the correct resistance may be found to ac-

Sangamo Price Correction!

Through an error, the price of the 1 mfd. Sangamo bypass condenser was announced last issue in the Power-Six list of parts as \$0.50. This should have been \$1.25. Sorry!

commodate any combination of tubes. With the Power-Six a 2,000-ohm resistance is used and the plug is inserted in the second tap.

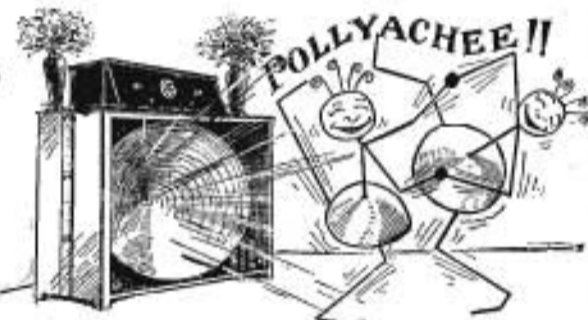
By attaching the B power unit with the A power arrangement in a double socket, the complete current supply is regulated by the turn of a single switch at the socket into which the double socket is screwed.

To test the set for any possible short circuits, connect the A+ current supply to the set's terminal marked B-. Insert tubes in sockets and with filament switch

(Continued on page 30)

WORLD'S FINEST LOUD SPEAKER

Genuine
"ENSCO"
3 FOOT
CONE KIT
ONLY
\$10



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 Phonotex for big cone, with brass apex, two Sepia Prints showing cabinet or stand construction for Cone or Roll Type speaker. 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 when delivered.

Name.....
Address.....

Engineers' Service Co.
15 Church St. (Desk D) New York City.

FROST-RADIO



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Type 800 Bakelite Rheostats are specified in the

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THIS most compact, handsome rheostat you have seen—only 1 1/2 inches in diameter! Slotted bakelite frame allows free air circulation. Finest Nichrome or Chromel A wire never burns out. Single hole mounting—bakelite pointer knob—smooth operation. No wonder these rheostats were selected for the remarkable 1927 DE LUXE Super! Your dealer can surely sell with these rheostats in any desired resistance. List price: 75c. Postpaid: \$1.00.

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For your 1927 DE LUXE Super the following Frost-Radio parts have been specified. Your dealer has them. Order them from him today.

No. 805	500,000-ohm Variable Resistor, List	\$1.25
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No. 450	20-ohm Bakelite Rheostat, List	.75
No. 253	Automatic Coed Tap Jacks, List	.30
No. 91	Double Circuit Gem-Jac, List	.50
No. 684	Push-Pull Switches, each, List	.30
No. 824	400-ohm Bakelite Potentiometer, List	1.00

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Would you like a set of Frost-Radio folders telling all about our Jacks, Rheostats, Potentiometers, Super Variable High Resistance Lists, and other Frost-Radio Parts and Accessories? If so, just put your name and address in the coupon and mail to us. Get these interesting folders today.

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FOR ANY CIRCUIT

—and of course, the



FERRANTI Audio Frequency Transformers amplify faithfully the weak impulses delivered to them by the detector. Every note—every tone—passes on to the loudspeaker just as it is received, but amplified and strengthened beyond belief. The only sets that Ferranti will not better are those that already have Ferranti.

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Every note and tone amplified—High amplification ratio with flat curve—Every transformer tested ten times—Short circuit turns eliminated—Primary shunted with built-in condenser of correct capacity.

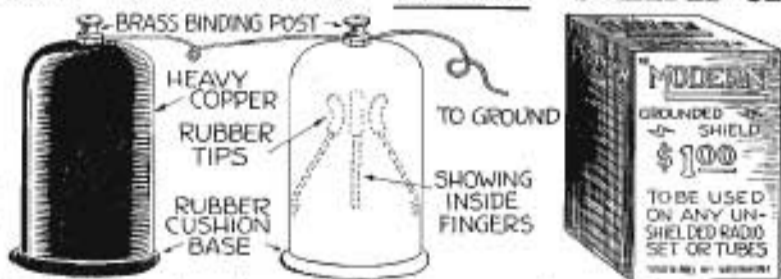
For the best available transformer results—Ferranti Audio Frequency Transformer A.F. 3—ratio 3 1/2 to 1—\$12.

For a transformer far superior to the average, use Ferranti A.F. 4—ratio 3 1/2 to 1—\$8.50.

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MAKE YOUR RADIO A "MODERN" SHIELDED SET



No unshielded set complete without them, no reception as perfect as it could be with them. "MODERN" Shields give each tube a chance to function unhampered by interference from magnetic and static fields, prevalent in all unshielded sets regardless of make or hook-up. Nothing can accomplish this but a metallic grounded shield. "MODERN" Shields protect the tubes from microphonic sound waves (by insulation from surrounding ether). Three rubber tipped spring fingers inside of shield press tightly against the tube, arresting any vibrations set up by jars or telephonic vibrations in the cabinet; the rubber tips eliminate any possible conductive leakage from shield to tube. "MODERN" Shields confine the heat around the tube, causing quicker action, greater efficiency and less power loss. "MODERN" Shields are recommended for sets or tubes that squeal, whistle, howl, choke, snap or produce indistinct or mushy reproduction. Tone and volume are greatly improved by their use. "MODERN" Shields should be placed over each tube in the set to obtain maximum results, then connect a piece of copper wire in series to binding post on each shield and to ground post on set. "MODERN" Shields are pressed from heavy copper fitted with rubber cushion on base. Each shield is equipped with brass binding post on top for ground wire connections. "MODERN" Shields retail for \$2.50 each, some genuine without the "MODERN" trade mark. Ask your dealer for a set of "MODERN" Shields today, or write to

"MODERN" LABORATORIES, 406 E. OLIVER ST., OWOSSO, MICH. DISTRIBUTORS and DEALERS, order your stock now. Factory already behind orders. STATE REPRESENTATIVES WANTED.



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New principle does away with the troublesome outside antenna. Better, clearer reception, especially for summer time. Reduces static and outside noises. Improves reception of any tube or crystal set. If you don't find it improves your set wonderfully, get refund at once.

\$1 Postpaid 10-Day Free Trial
Anywhere Money-Back Guarantee

No More Outside Aerial, Once You Install It

No more corrosion from the weather. Free from nearness of neighboring aeriels and breakdowns that stop reception. No tools needed, no extra ground or tube—takes the place of your present aerial. Nothing to get out of order. No need now to delay owning a radio, because of aerial trouble. Operate a set in any room wired for lights. Attach and turn on—uses no current. Guaranteed not to use any amount of electricity. Two big banks say we are reliable. Order today on money-back guarantee, if not delighted, dollar bill will do. ORDER TODAY.

STEINITE LABORATORIES,
40 Radio Bldg.,
ATCHISON, KANSAS

The New Steinite 7-Tube Radio uses no batteries of any kind—only \$135. Loud Speaker Bolt In. Complete with tubes \$151 with nothing to buy. Operates from light socket in an hour. Write for descriptive literature before buying an expensive Battery Set. Also Steinite Long Distance Crystal Set \$6—8-Tube Battery Set \$45. WRITE TODAY.

Attaches to light socket—uses no current. Make comparison now with your present aerial at my risk.

BUILDING "POWER-SIX"

(Continued from page 28)

turned on connect the A— to all three B positives. The tubes should NOT light, but if for any reason they do, there is a wrong connection or a short circuit. Check over the wiring and find the trouble before proceeding.

The Power-Six is simpler to adjust than the Counterphase, described in Radio Digest last year. By carefully following the instructions accompanying the kit, there should be no trouble in balancing the set properly. A little patience and care are all that are required.

After the set has been balanced, tuning is a very simple problem if a little system is used. With the B-T tuning controls it was found that on the right dial the approximate position for each wave length corresponded with the maker's calibration. The left dial varied five points.

How to Tune Power-Six

The easiest method of tuning is to rotate the two dials together. With the right dial at the approximate wave length, slowly rotate the left dial back and forth

about five points. Keep this up, varying the right dial one point at a time until station is heard. After several stations are located it is a simple matter to find others.

Always operate tubes at lowest brilliancy consistent with satisfactory results. Volume or sensitivity may be increased by rotating the volume control. Keep the sensitivity control just below the point where oscillation occurs (where a "blop" is heard). By so doing unusual selectivity may be obtained with this set.

WSM JOINS RED CHAIN

(Continued from page 2)

grams of the country to WSM listeners. Every Sunday night the first hour of the Capitol theater program is broadcast and following this at 8:15 Central time, the Atwater Kent hour is presented. On

DISTANCE-VOLUME or SELECTIVITY

Send \$1.00 bill for information and directions, how to improve reception. Anyone can do it. Don't delay. O-K LABORATORIES, Dept. H., Hastings, Nebraska

NEW INFRADYNE KIT

ALL GENUINE PARTS IN STOCK NOW! WHOLESALE CATALOG 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.

SEE JAY POWER UNIT



A combination alkaline element battery and trickle charger all in one. Price, shipped dry with solution, \$16.00. Tube extra, \$1.00. 100-volt with chemical charger, \$12.00. 140-volt, \$17.00. Write for our illustrated 32-page booklet and Send No Money. Pay Expressman. SEE JAY BATTERY COMPANY, 919 Brook Avenue, New York City

MAKES TUNING EASY

The RADEX system of Tuning turns your dial numbers into wave lengths and wave lengths into dial numbers. Then you know just where to set your dials for any station you want. And you can tell the stations you are receiving without waiting announcement.

RADEX contains only complete list of stations published, broadcasting map and distance-table.

25c, postpaid. Send coin or U. S. stamps. RADEX PRESS, P. O. Box 143-BE, Cleveland, Ohio

Again Specified

For Perfect Filament Control 4 AMPERITES are specified in the ST. JAMES SUPERHETERODYNE described in this issue

Radiall Company, Dept. R.D.-10, 50 Franklin Street, New York City



At All Dealers THE "SELF-ADJUSTING" Rheostat

Yale GROUND HOG

Marvelous newly-invented ground gives 100% improved reception. Doubles power and distance. Stops leakage. Reduces static. Stops humming even in midsummer. Results never before equaled, users say. Satisfaction guaranteed. Proves 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 \$5.95 size for only \$2.95. Send name today and pay \$2.95 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. 4th St., Kansas City, Mo.

Tuesday night at 8 o'clock the Eveready Hour is given.

The staff of the National Life Insurance station is headed by George D. Hay, known as "The Solemn Old Judge," manager and announcer, who is assisted by Jack Keefe, announcer and staff artist, and Martha Rowland Brown, musical director, Thomas L. Parkes, who has had many years' experience in technical radio, is resident engineer.

WSM operates on 282.8 meters.

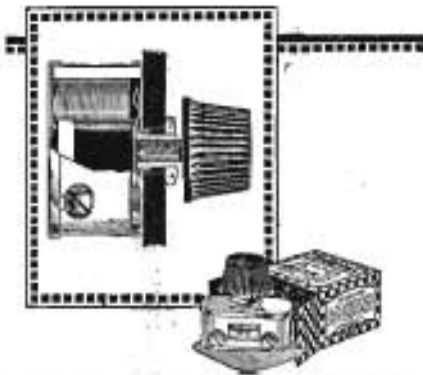
American Radio Now—50% DISCOUNT RADIO! ON BIG NEW 1927 CATALOG-FREE
Dealers, Agents, Set Builders—get our big 1927 Catalog—225 nationally advertised lines. Lowest prices in America! Largest, most complete stock. Radio's latest developments. It's FREE—send for your copy now. AMERICAN AUTO & RADIO MFG. CO., Inc., 2640 McGee Street, Kansas City, Mo.

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. \$50 to \$200 a week easy. 40% to 60% Profit. FREE Simply send name for this big illustrated book explaining liberal profit proposition and how to get best radio goods at wholesale. Also prices on parts, sets and accessories and amazing special offers—all free. Write today. STANDARD RADIO CO., 1428 Walnut St., Kansas City, Mo.

FIVE TUBE RADIO \$25.00 AGENTS WANTED BIG COMMISSION
Demonstrating agent wanted; every county. Exclusive to right man. Sell what public wants—five tube, long distance, loud speaker radio with single dial control. Price within reach of all. \$25.00 retail; liberal discount to agents. Sell in spare time—evenings. No selling or radio experience necessary. Territory going fast. 100 page Radio Book FREE. Write today—don't delay. G. I. FISCHER, 122 W. Austin Ave., Chicago

New Device Locates Any Radio Station
Amazing Results Secured by Simple Invention of Kansas City Expert
An amazingly simple device that will enable you to determine instantly the proper dial setting to reach any broadcasting station has been perfected by a Kansas City radio expert. With it all you need is the wave length, given in all broadcasting programs, to tune in exactly on any station that you select. This new device eliminates all logging, keeping bothersome charts or tables, and shows you how to locate many stations you have never found. Simply send your name and address with one dollar to the Radio Specialty Co., 501 Dwight Bldg., Kansas City, Missouri, and this device will be sent you postpaid. If after using it for five days you are not convinced it is the greatest value ever offered, return it and your money will be refunded.

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Why confine your radio programs to a few local stations when the expansive concert, dance music and lectures of hundreds of big cities are ready for you? Connect this DISTANCE GETTER to your radio, tune according to instructions and presto—note the distant programs roll in! Satisfaction Guaranteed. Your money instantly refunded if you are not satisfied. The article in former issue, containing FREE with each Distance Getter, alone is worth the price. Gateway of Chicago writes: "Results beyond all expectations. Come thru locals like a knife." George of Palm, Ill., says: "Used three days for my friends. I am Detroit and California users."
MAIL COUPON TODAY
HAZLETON LABORATORIES, 4254 Malden St., Dept. RD, Chicago, Ill. Send me Distance Getter, postpaid, Enclosed \$3.00 (M. O. stamps or check). Send C. O. D. plus small postage added.
Name _____
Address _____
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Use Allen-Bradley Resistors for B-Eliminator Hook-Ups

THE success of a B-Eliminator hook-up depends as much on the operation of the variable and fixed resistors as it does on the type of circuit used. Allen-Bradley variable and fixed resistors lead the field for this service.

Bradleyohm-E PERFECT VARIABLE RESISTOR

This new oversize resistor is used as standard equipment by leading B-Eliminator manufacturers such as Acme, All-American, Majestic, Philadelphia Storage Battery, and Willard. It is the ideal variable resistor for controlling plate voltage output. The scientifically treated graphite discs in Bradleyohm-E provide stepless, noiseless, plate voltage control, and the setting will be maintained indefinitely. Do not experiment with makeshift variable resistors, when Bradleyohm-E has been pronounced the ideal unit by the largest manufacturers of B-Eliminators in the world.

Bradleyunit-A PERFECT FIXED RESISTOR



Another triumph of the Allen-Bradley Research Laboratory is Bradleyunit-A, a perfect fixed resistor that contains no glass, requires no hermetic sealing, and can be soldered into place without the use of clip mountings. Bradleyunit-A is not affected by temperature or moisture and it maintains its calibration indefinitely.

MAIL THE COUPON

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Please send me your literature on Allen-Bradley radio devices and B-Eliminator hook-ups.
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New Radio Maps. We are now able to supply our readers with new radio maps, showing location of stations, list of all stations by call letters. Come folded in cover, but may be used for pasting on cardboard. Size 28x34". Send 25 cents stamps or coin to Shopping Service, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

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.

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For those who are unable to obtain radio parts or accessories from your local store, the Radio Digest Shopping Service offers its services. Send in your wants. For quick service include list price of merchandise wanted. Shopping Service, Radio Digest, 510 N. Dearborn St., 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.

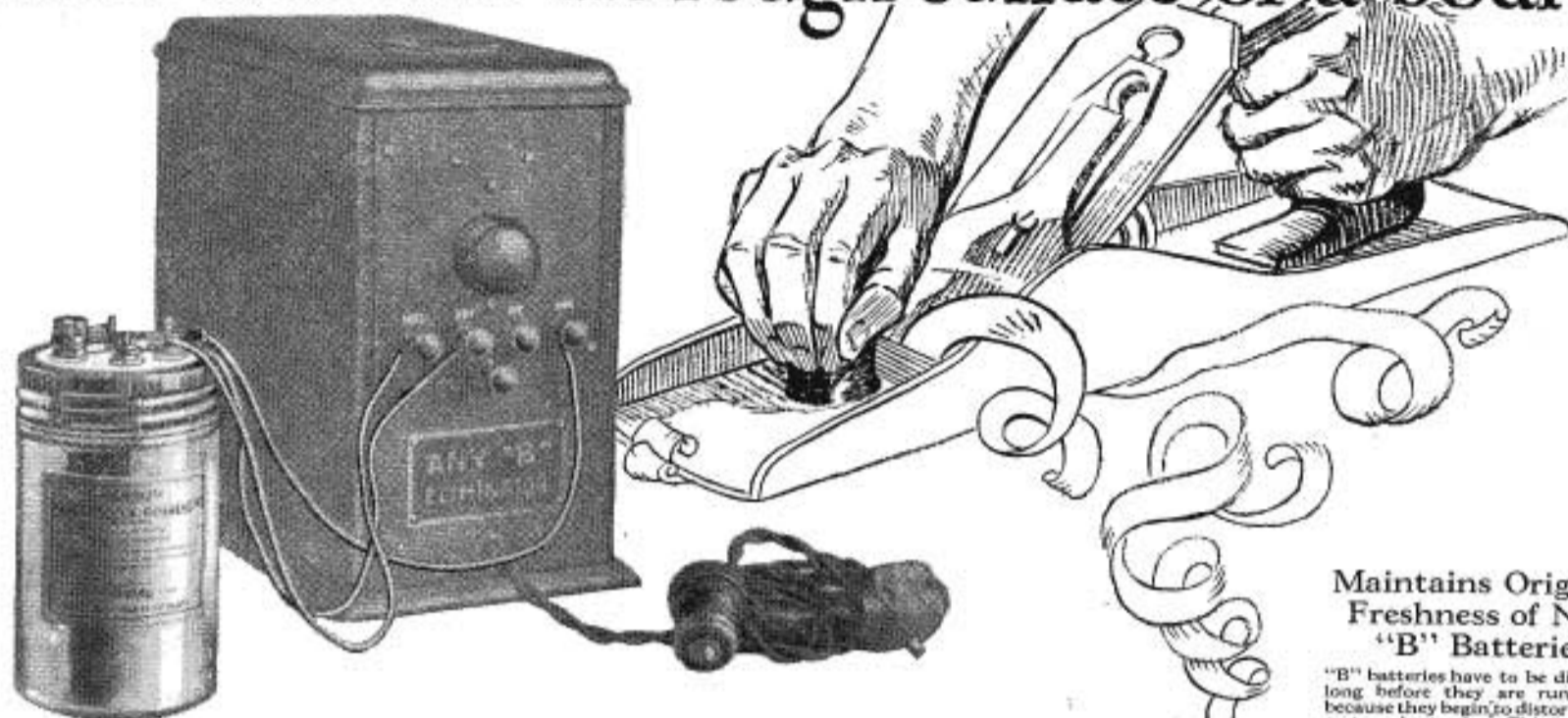
CLEANING OUT PARTS AND ACCESSORIES at rock bottom prices: Perfect unused Brown (London, England) phones, \$,900-ohm headset, best in world, cost \$30, make offer; Kennedy 200-2,500 meter receiver and two stage amplifier (latter needs rewiring) in beautiful cabinets, \$20; compact portable Seven-Tube Silver Marshall super-heterodyne, size 14 1/2"x4 1/2"x7 1/2", no cabinet, with folding loop and tubes, designed to be put in motor car, \$135; Beautiful Precise Grand Prix super-het, once described in R. D., with eight tubes, Ajax loop and Sturm cabinet, \$190. Radio Engineer, moving to coast, must sacrifice to first bidders. Act quick, make offers. Box RE, Radio Digest, Chicago.

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A PAYING POSITION OPEN to representative of character. Take orders shoes-hosiery direct to wearer. Good income. Permanent. Write now. Tanners Shoe Mfg. Co., 2-707, C St., Boston, Mass.

The MERSHON Condensers

smooth out tone through B eliminators as
a plane smooths the rough surface of a board



Makes old "B" eliminators ever fresh like brand NEW "B" batteries

Connecting a Mershon condenser to your "B" eliminator vastly improves the tone quality from your receiving set. The famous Mershon's action is two-fold. First, it assists in more perfect filtering (straining) of the uneven current supplied by the Lamp Socket. Second, it acts as a reservoir to store a large amount of energy which is fed to the Receiver in a continuous smooth flow as called for by incoming broadcasts. This action may be considered the same as the results of using a plane for a rough board. Most "B" eliminators use a good filter, which can be noted by the lack of any A. C. hum. But for perfect results and tone quality comparable to that which is obtained from the use of the new "B" batteries, it is essential that a sufficient amount of energy be stored directly back of the receiving set. This energy must be on tap to instantaneously supply current for loud or long sustained musical notes. The famous Mershon enables this storage of energy to be accomplished electrically rather than chemically. The result is a great improvement in tone quality. It is particularly noticeable on low notes which require a large amount of current for proper reproduction.

To connect a Mershon is as simple as connecting a battery to your Receiver. Three lead wires are provided attached to the Mershon, the positives being colored red and the negative black.

CAUTION—Of course it must be realized that a Mershon added to a "B" eliminator will not improve tone quality—or the use of any other tone improvement device—if the design of a Receiving set or loud speaker is such that the tubes or loud speaker are overloaded.

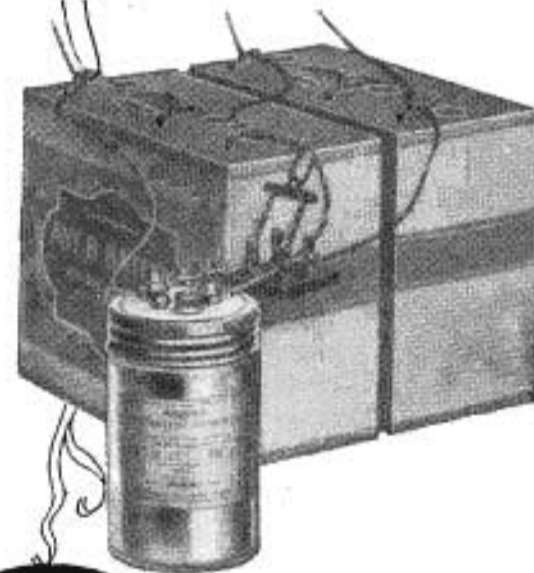
There are many other uses for Mershon condensers. Write Dept. 3B7 for descriptive folder.

AMRAD CORPORATION
Medford Hillside, Mass. Harold J. Power, Pres.

AMRAD

Maintains Original Freshness of New "B" Batteries

"B" batteries have to be discarded long before they are run down, because they begin to distort broadcasts and get noisy. This is because the internal resistance of the batteries increases as they age. Connecting a Mershon across your "B" batteries (with a disconnecting switch) overcomes this high internal resistance and so greatly prolongs the useful life of dry cell batteries. The Mershon itself does not wear out or run down. It may be used continuously with endless sets of "B" batteries.



\$8.

New and Improved FRESHMAN MASTERPIECE

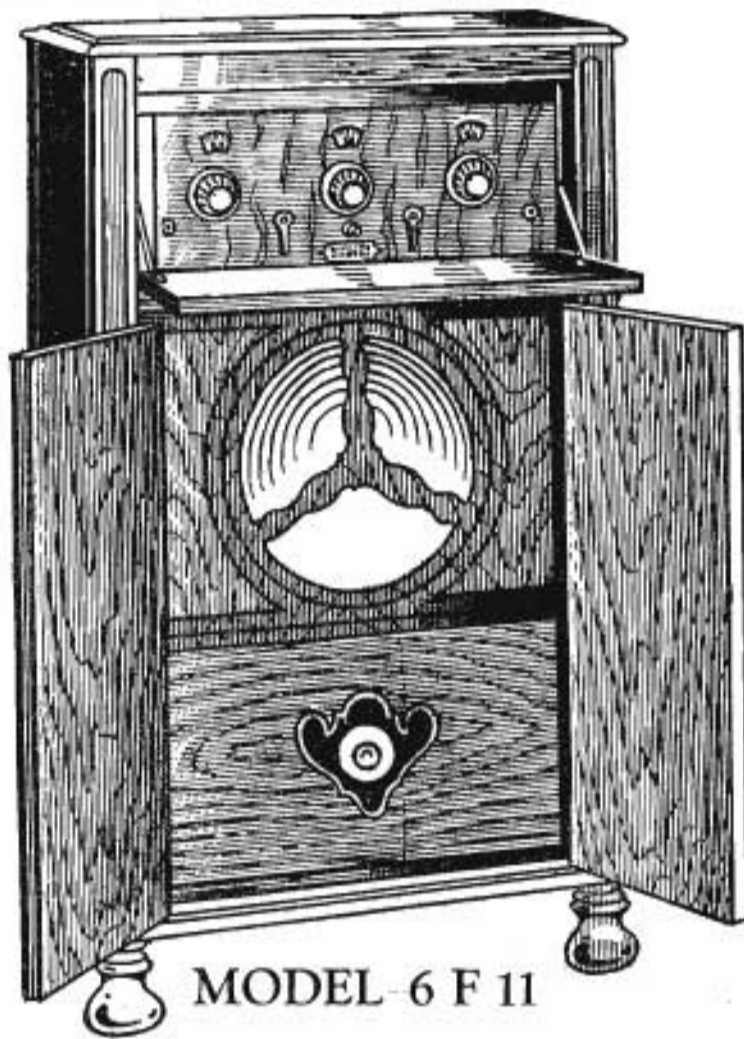


*Uses C-Battery
and
Power Tube*



*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



*Shielded all
metal Front and
Sub-panel*



*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.

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