

Fan Wins \$2,000 Interference Damages

# Radio Digest

TWICE  
A MONTH

ILLUSTRATED

FIFTEEN  
CENTS

FIRST FEBRUARY NUMBER, 1927

Title Reg. U. S.  
Pat. Off. &  
Dom. of Canada

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 WEAJ, has brought a regular service of many outstanding programs. (Continued on page 30)

## 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 blithesome 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 tingle 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 (299.8), 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 (256.3 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.

# CONTENTS

Radio Digest, Illustrated, Volume XX, Number 2, published Chicago, Illinois, February 1, 1927. Published semi-monthly on the first and fifteenth of each month by Radio Digest Publishing Co. (Incorporated), 510 N. Dearborn Street, Chicago, Illinois. Subscription rates yearly, Three Dollars; Foreign Postage One Dollar additional; single copies, Fifteen Cents. Entered as second class matter May 3, 1926, at the post office at Chicago, Illinois, under the Act of March 3, 1879. Title Reg. U. S. Patent Office and Dominion of Canada. Copyright 1927 by Radio Digest Publishing Co. All rights reserved.

|                                                                                                              |               |
|--------------------------------------------------------------------------------------------------------------|---------------|
| "All the News of Radio".....                                                                                 | 2 to 7        |
| Sure, You Can Talk to London for \$75; Wendell Hall News; Behind the Scenes at WBBM.....                     | 5             |
| Woman's Page; Woman's Program Index.....                                                                     | 7             |
| Directory of Radiophone Broadcasting Stations, Part III, Alphabetical List of Calls and Data.....            | 8             |
| "Goody Goody Girl," Conclusion; Late Arrivals at the Radio Mart.....                                         | 9             |
| 1927 DeLuxe: the Finest Super, Part II, by Marvin W. Thompson.....                                           | 11            |
| Sixth Section of Whozit Pictures.....                                                                        | 10, 12 and 13 |
| Editorials; Indi-Gest; Condensed by Dielectric.....                                                          | 14            |
| An Evening at Home with the Listener In (Central Time); Stations in Order of Wave Lengths; New Stations..... | 15            |
| Advance Programs for the Larger Stations, February 1-14.....                                                 | 16 to 27      |
| Bremer-Tully's New Power-Six, Conclusion, by George R. Ives.....                                             | 28            |

## 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 5,000, 10,000 and 30,000 words in length are desired. No manuscripts accepted unless typewritten and prepaid, or returned without return postage being inclosed. All manuscripts are sent at owner's risk.

Newsstands Don't Always Have One Left

WHEN YOU WANT

# Radio Digest

YOU WANT IT!

BE SURE OF YOUR REGULAR COPY BY SUBSCRIBING NOW

SEND IN THE BLANK TODAY

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

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

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 WEBB, 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 woids," that's just his Torontoes. 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 Mamma Coats and little John Coats, "aboot" 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 Morwen-na, 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 19) 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 WEAJ 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, c/o Senate Office Bldg., Washington, D. C. Representative White, 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 combine 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 Radario 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 monopoly 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 aspiration.

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 WEAF 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 KFOA 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 160,000 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 Bierce 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 Whozit Game, started by WOOD. The Radio Digest \$1,000 Whozit prizes for Grand Rapids listeners will be awarded through Station WASH.

## Shhh! Here’s How You Can Eavesdrop on Ocean Phone

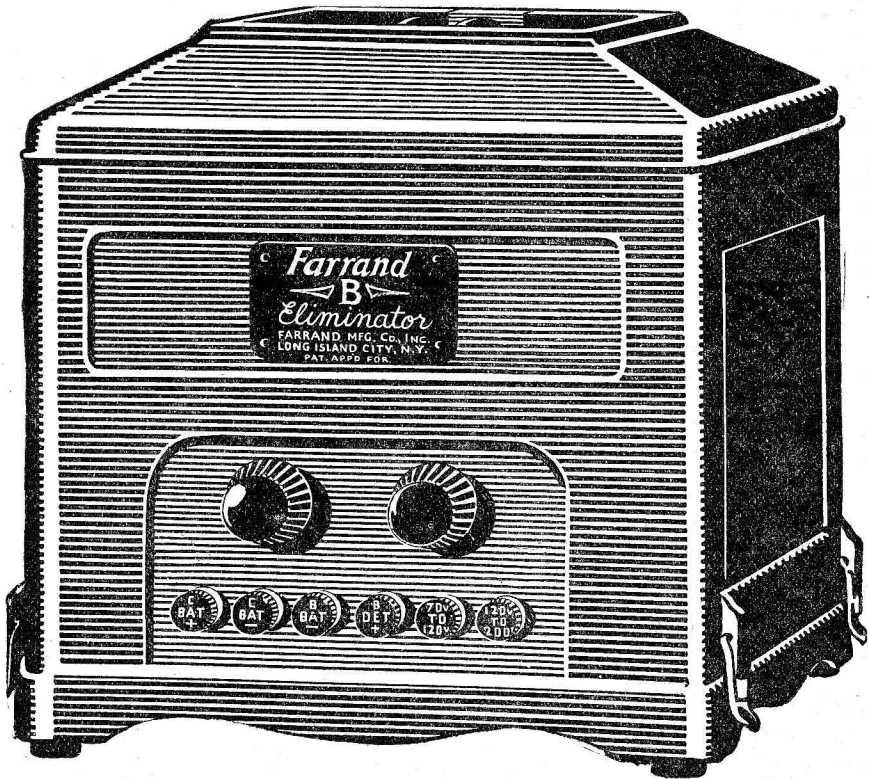
WANT to hear the transatlantic Radio telephone conversations, passing between America and England daily and nightly since the service was opened recently? Here’s how to catch at least the American side of the powwows, as transmitted from Rocky Point, Long Island.

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:

|           |           |           |            |
|-----------|-----------|-----------|------------|
|           | 350 mmfd. | 500 mmfd. | 1000 mmfd. |
| Primary   | 500       | 400       | 300        |
| Secondary | 600       | 500       | 400        |
| Tickler   | 500       | 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

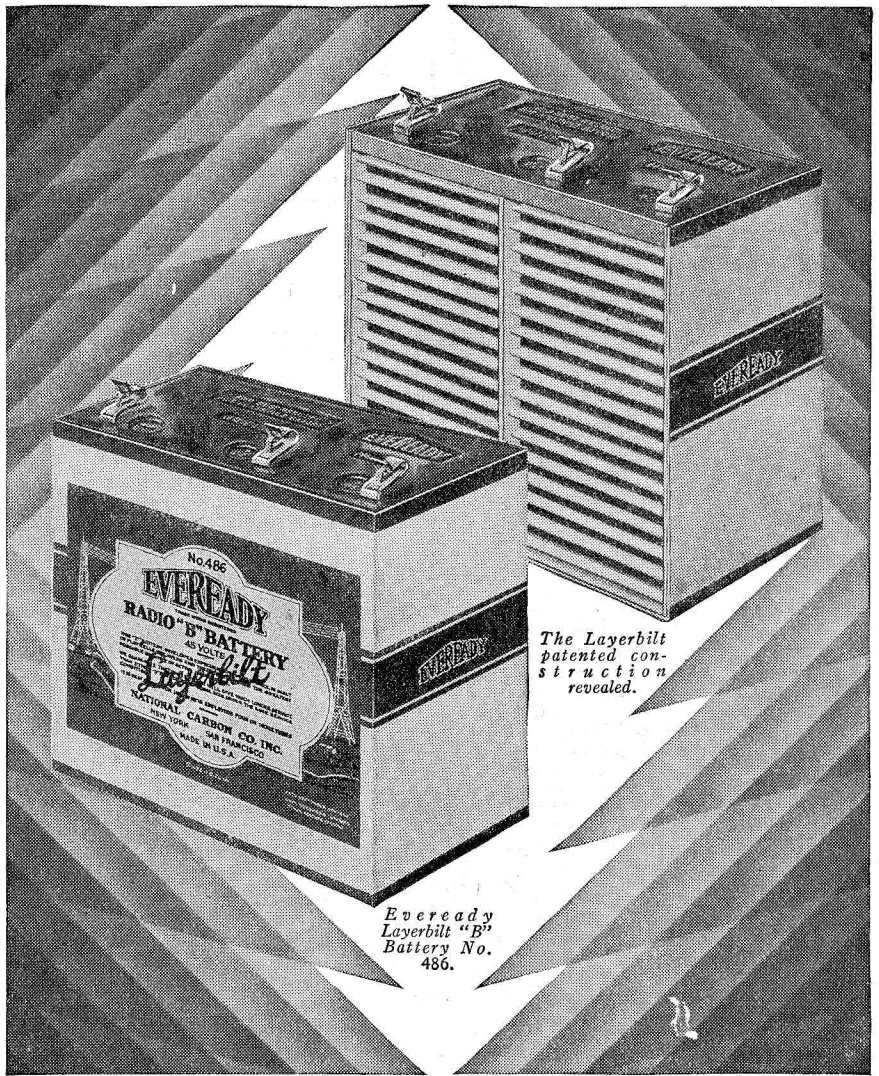
NO matter what type of set you own, no matter the number of tubes (it may even be as many as ten) the Farrand "B" Eliminator will provide ALL the voltage required—up to 200 volts, if necessary. There are no adjustments, no fussy meters to watch. There is nothing to wear out. No acid or water. It is absolutely 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.



The Layerbilt patented construction revealed.

Eveready Layerbilt "B" Battery No. 486.

*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  | WWJ—Detroit      |
| WEEI—Boston      | WGN—Chicago      |
| WTAG—Worcester   | WOC—Davenport    |
| WFI—Philadelphia | WCCO—Minneapolis |
| WGR—Buffalo      | WCCO—St. Paul    |
| WCAE—Pittsburgh  | KSD—St. Louis    |
| WSAI—Cincinnati  | WRC—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

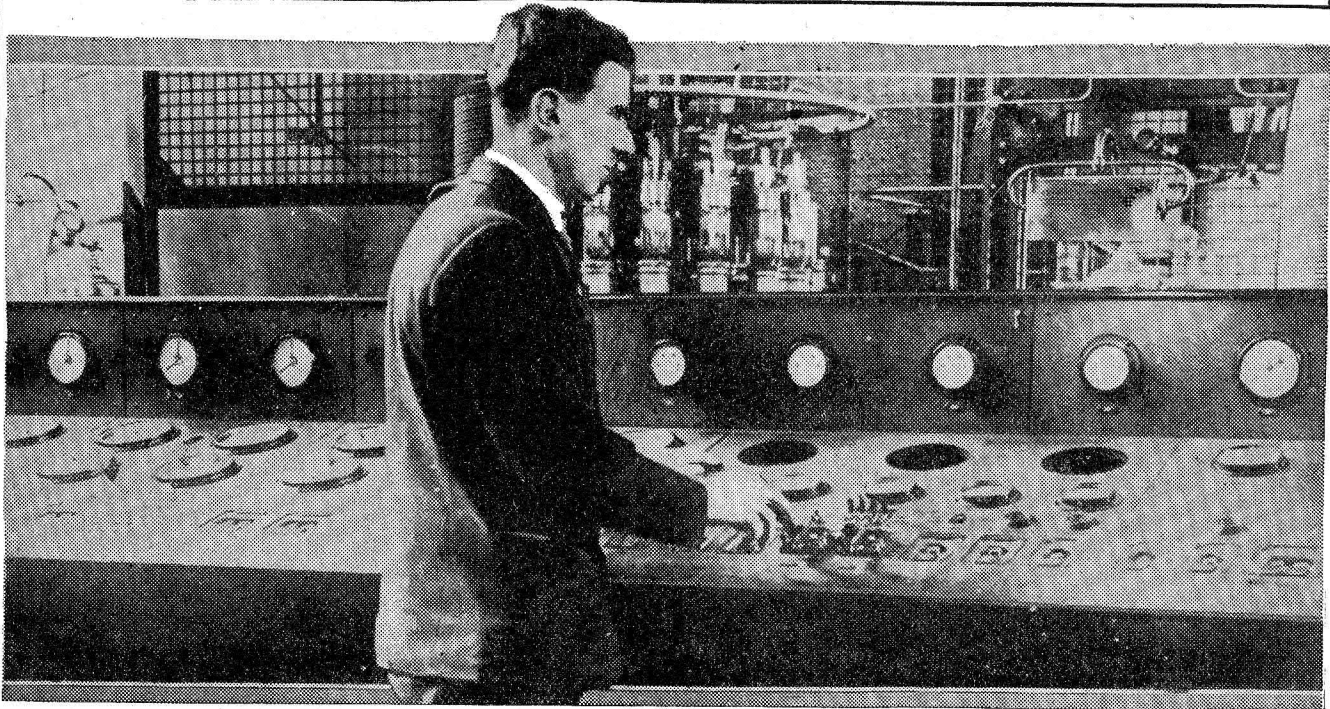
"HELLO! Hello!"  
 "Ello-lo-lo! I say, 'Ello! Are you there?"  
 "Hello! This is Noo Yawk calling London!"  
 "Ello! Why you jolly well have Lon'on, old chappie."  
 And now they're doing it every day over the air through the regular little Hello Boy that sits on old John Anybody's desk in the East American metropolis. The first official message was transmitted by Walter F. 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



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."



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.

# 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

# "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

# 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.



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."

**Ears Very Necessary to Mr. Smith**

And when we look at the next picture

we feel entirely tranquil again, for there is Eunice safe and sound looking over Director Kelly Smith's shoulder and asking a few questions during the intervals when one of the director's two ears is not working at a telephone receiver. And why not? With both ears efficient and each attending to its own job, why shouldn't a nice girl get a word in edgeways?

Then there is Fred L. Jeske, the bari-

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-blooeys" 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:

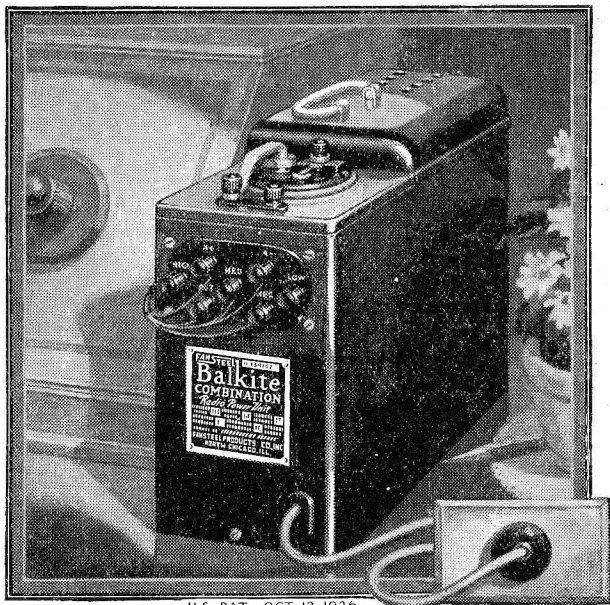
"A little later Ukulele Ike and others improved on this idea by making more peculiar and more kinds of various noises—in other words, advancing a step in this vocal orchestral arrangement effect. Then came the next step, the merry-makers with their wonderful vocal arrangement creations.

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, Tellin' 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.



U.S. PAT., OCT. 12, 1926

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

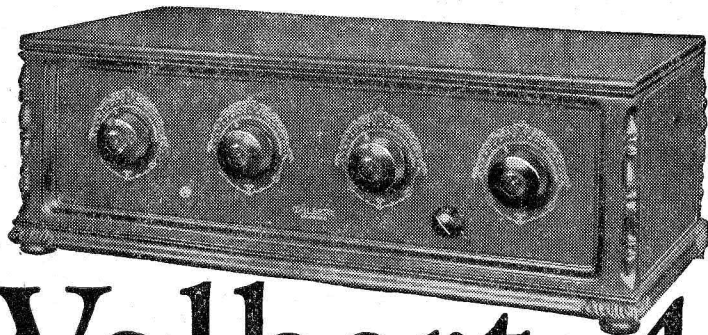
Now, with the best portion of the radio season before you, make your radio set a light socket receiver by adding the new Balkite Combination Radio Power Unit. Once connected to your "A" battery and set and plugged into the light socket, it supplies automatic power to both circuits. You need not even 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: WEA, W  
 WEEL, WGR, WFI, WCAE, WSAL, 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 Penetrola—audio frequency amplifier for radio sets

*References must accompany your order*

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 \_\_\_\_\_

**Walbert**  
**Isofarad**  
 Radio Receiving Set







# GOODY GOODY GIRL

CHAPTER XIV

By MERLIN MOORE TAYLOR

Conclusion

**A**FTERNOON 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-cutted 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."

**"Y**OU'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—"

**"O**H, 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.

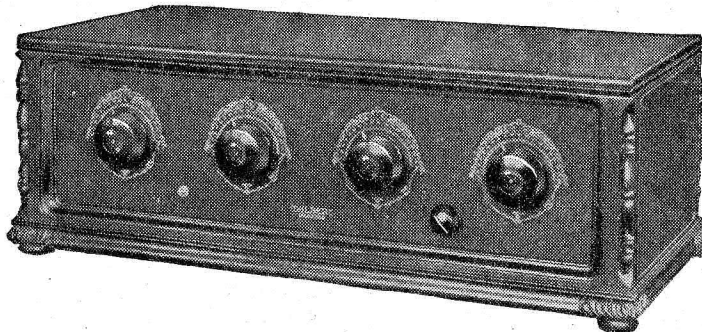
"Darling!" he said huskily. Then he bent over her and kissed her and, thrilling to the caress, she kissed him back. In that moment she felt that if he asked her to marry him now she would say "yes." Perhaps she did love him, after all. She didn't know. If it wasn't love that she felt toward him, it was 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.

**L**ANCASTER 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

**W**HILE 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.

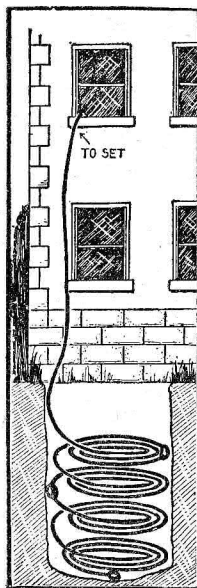
Acting on this assumption, the Walbert Manufacturing Company, manufacturers of the Isofarad Receiver, are offering particularly to the DX fans their Walbert 47, shown above. This set has a separate dial for each condenser, four in all, and each is a vernier with the most delicate adjustment. There are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



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—"

**"T**HE 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."

**"B**UT 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."

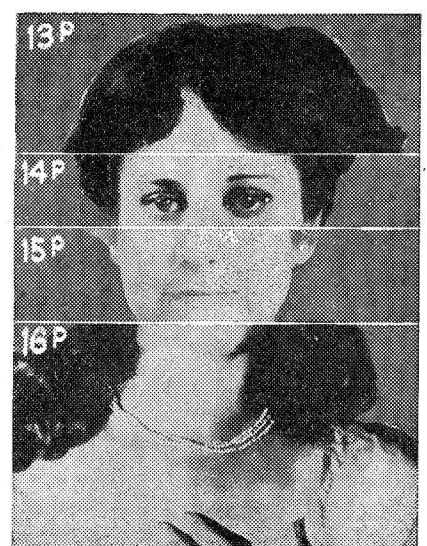
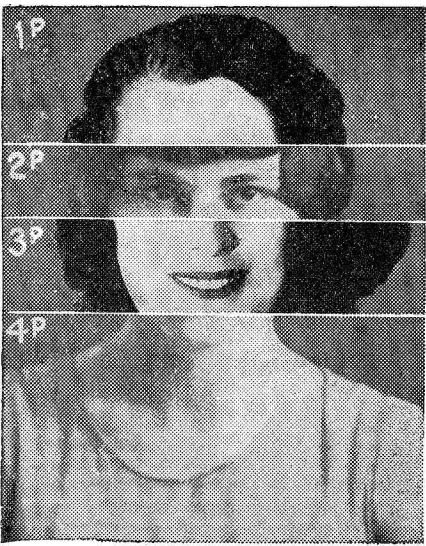
Herbie Coles wrung his hand and turned stumbling to the door.

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

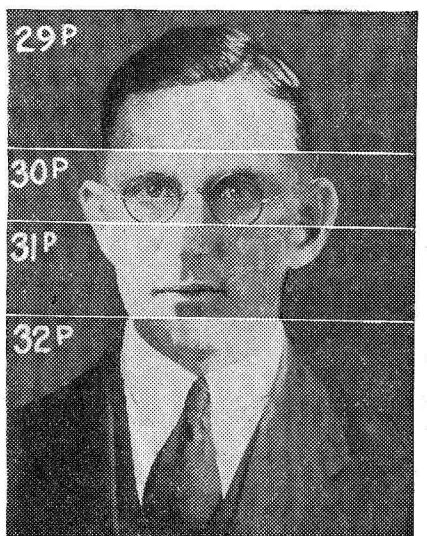
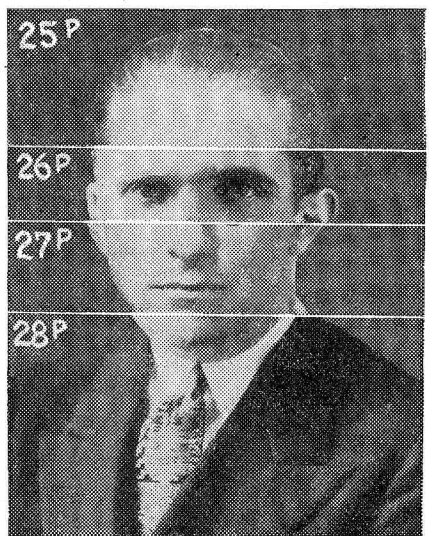
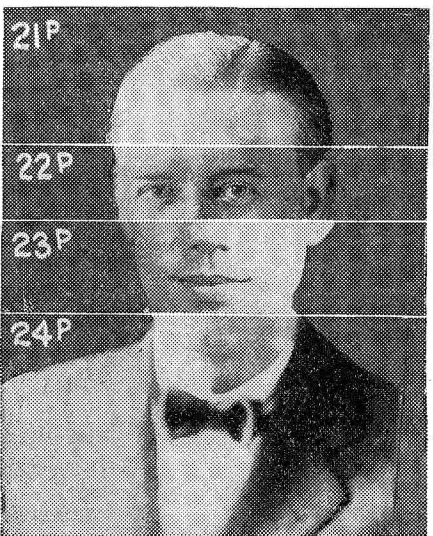
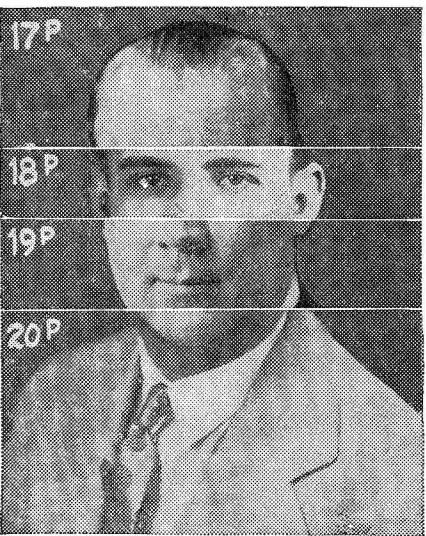
Herbie choked down a sob and laid his

(Continued on page 29)

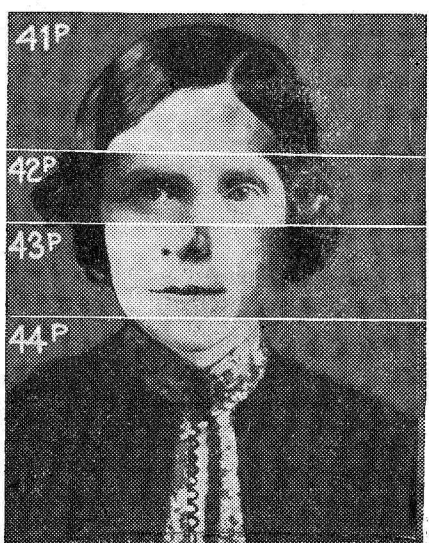
# SIXTH WHOZITS ARE HERE—TWO YET TO COME



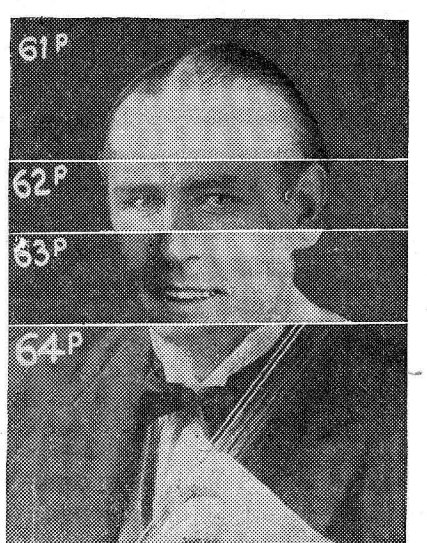
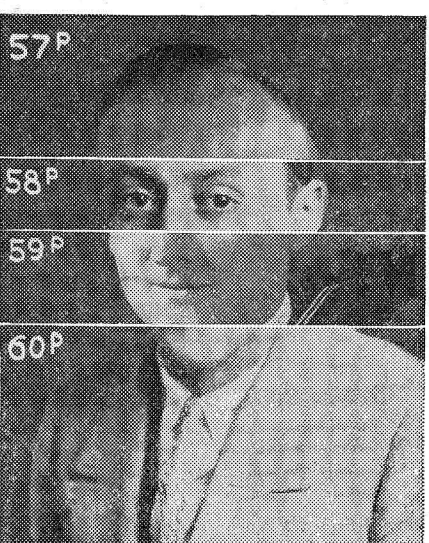
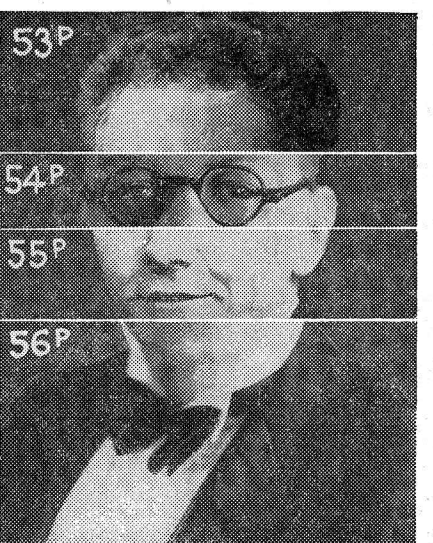
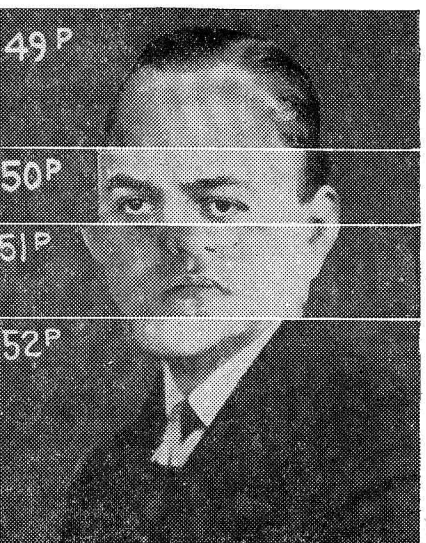
The following artists are in above panel: Byrd Rigsby, KTHS; Leona Iatone, KTHS; Helene Costello, KFVB; Dolores Costello, KFVB.



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 Starret Mfg. Co., attention of Mr. Schrader, 523 S. 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 5/32-inch or No. 27 drill. Two are found in each of the lower corners. Then drill the five holes requiring an 11/32-inch drill, the one requiring a 7/16-inch and the two 1/2-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 5/32-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

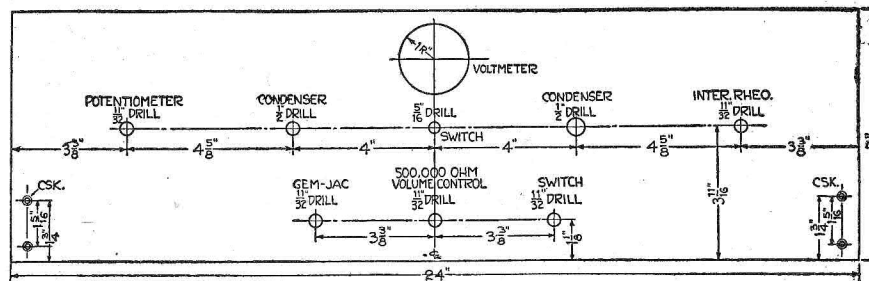


Figure 4—Front Panel Drilling Layout

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

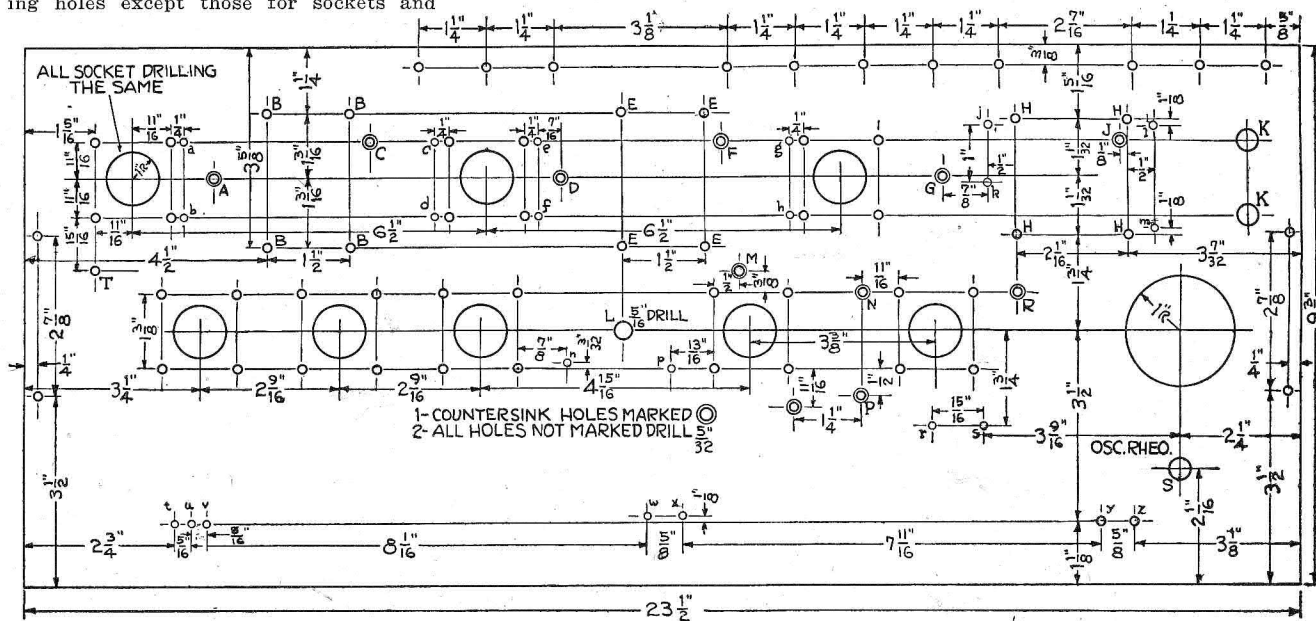


Figure 5—Drilling Layout for Sub Base Panel

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-

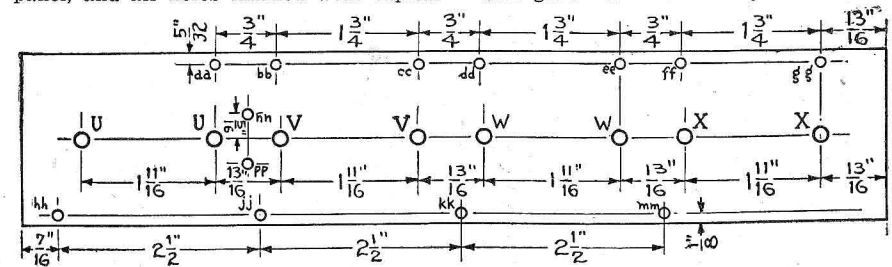


Figure 6—Layout for Intermediate Mounting Strip

letters are now drilled with a 5/32-inch or No. 27 drill. Those marked with double circles are countersunk. Then the wiring holes are put through with a 5/32-inch or 1/8-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 9/16 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 U, 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 Celatsite 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 .00025 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)

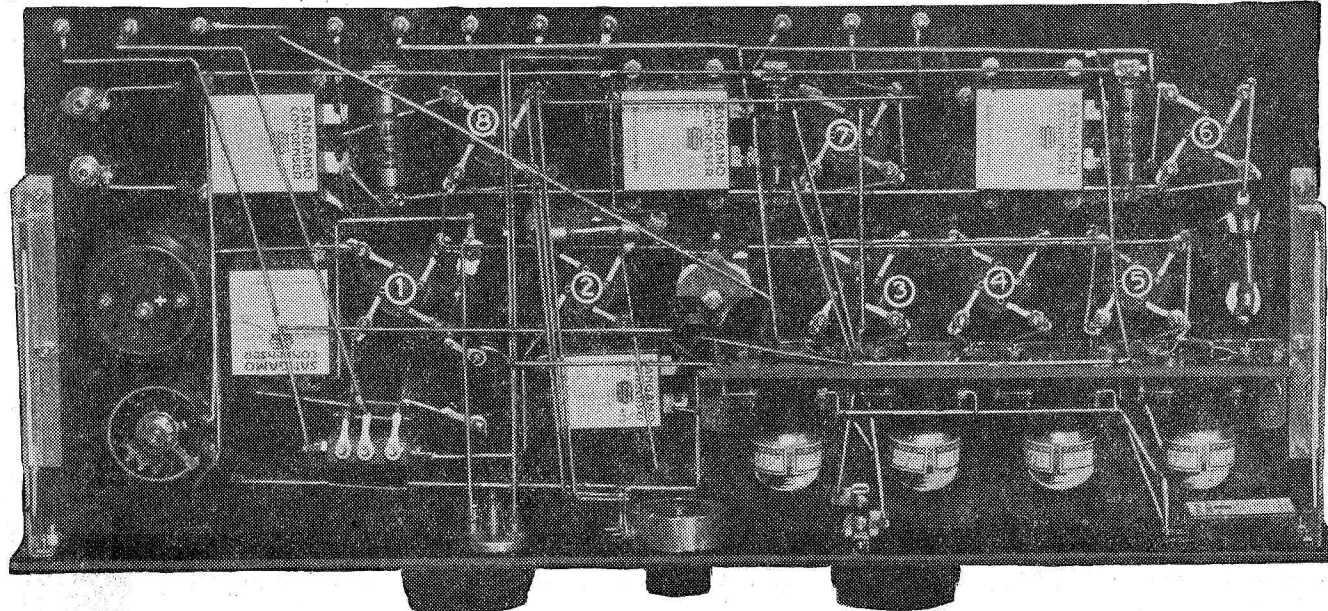
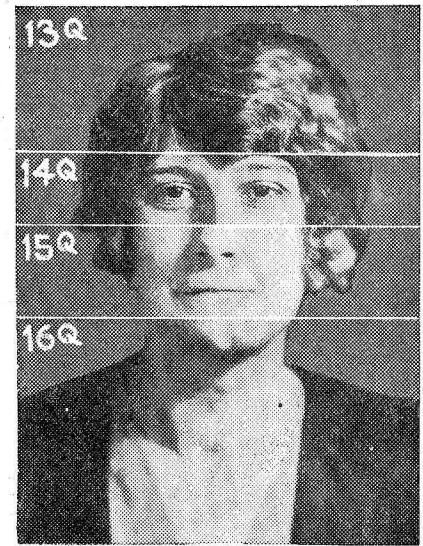
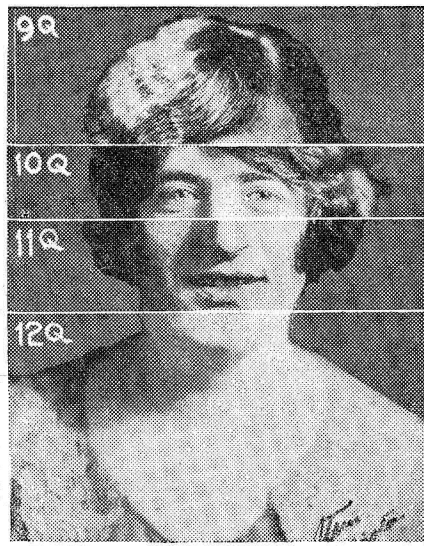
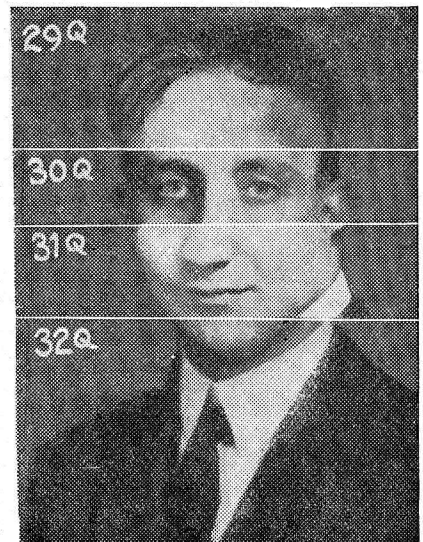
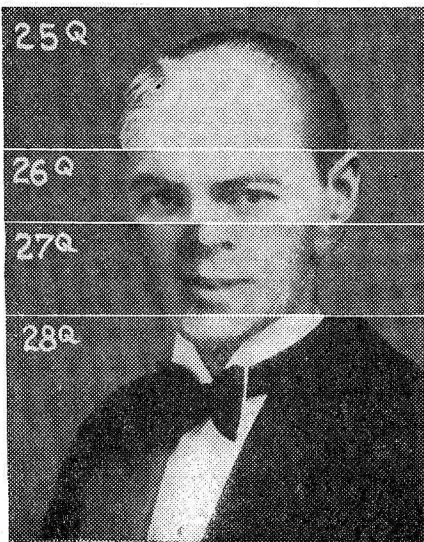
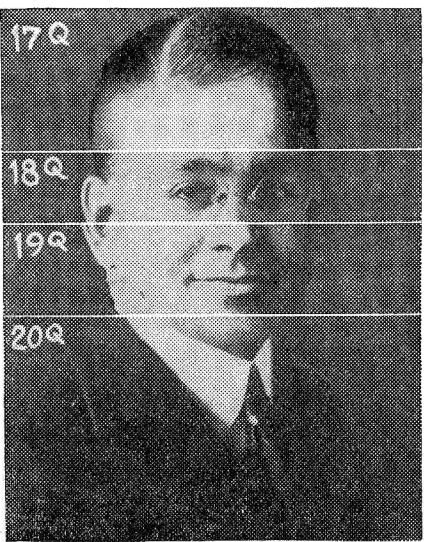


Figure 7—Bottom View of Completed Receiver Showing Wiring and Numbered Sockets

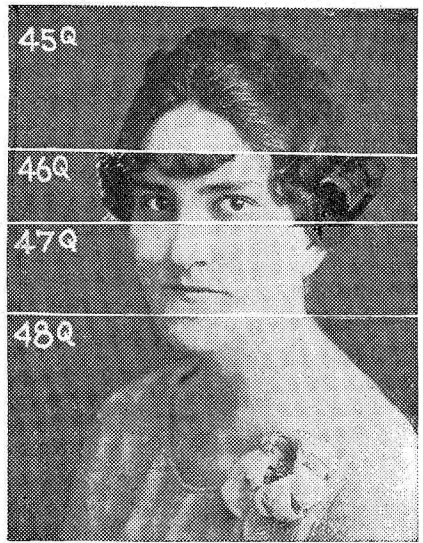
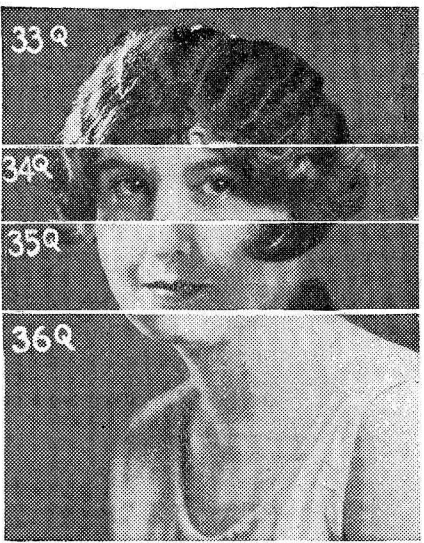
# \$26,000.00 IN PRIZES FOR SOLVING "WHOZITS"



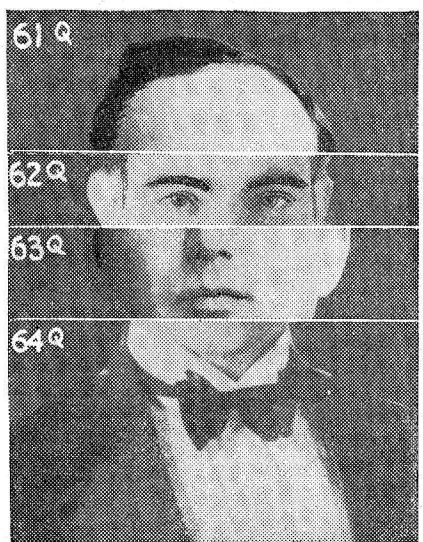
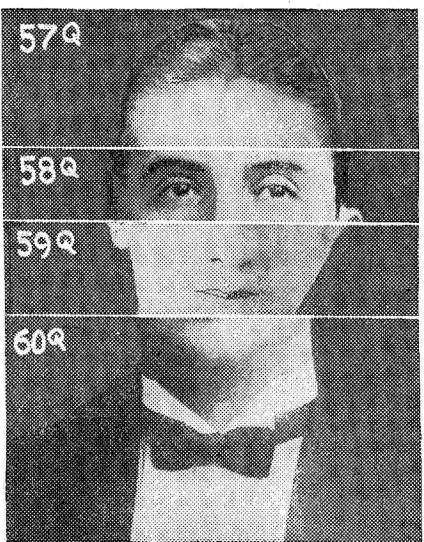
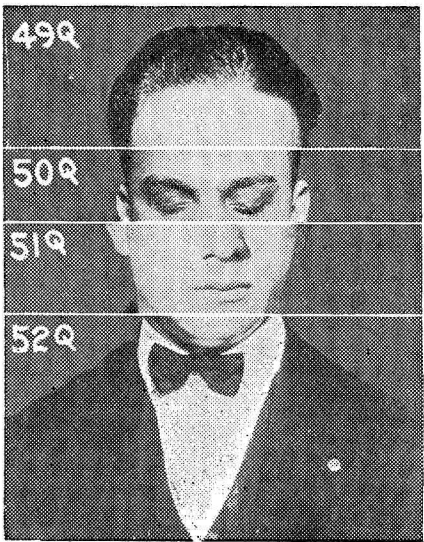
The following artists are in above panel: Irene Weber, WSOE; Marjorie Mills, WNAC; Helen Casey, WNAC; Louise Harris Hoover, WSOE.



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 Kieny, WOW; Grace Pool Steinberg, WOW; Norine Gibbons, WLW.

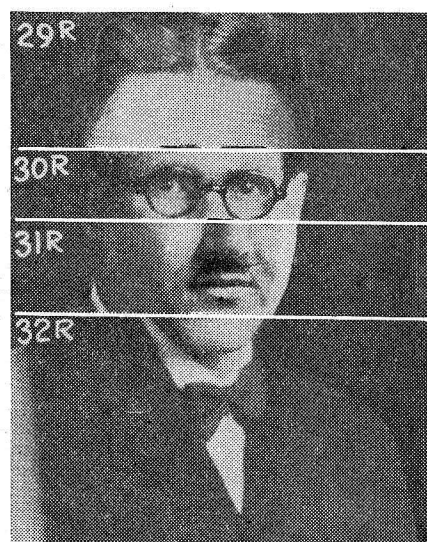
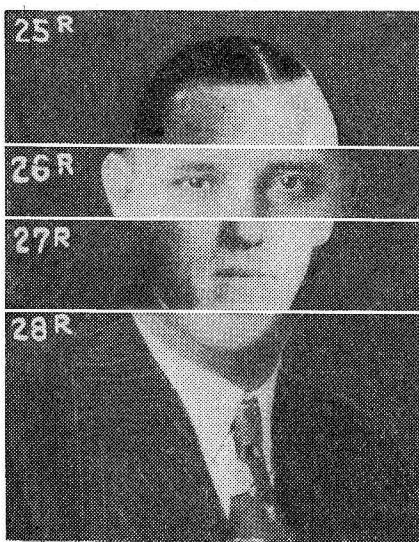
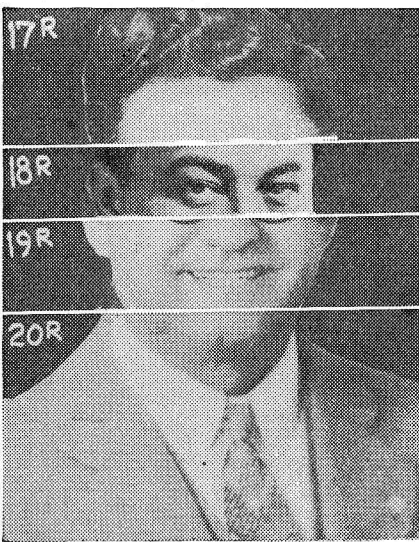


The following artists are in above panel: Harry Kohn, WMC; Larry Kelly, KPRC; Frank Bracciante, WMC; Frank Tilton, KPRC.

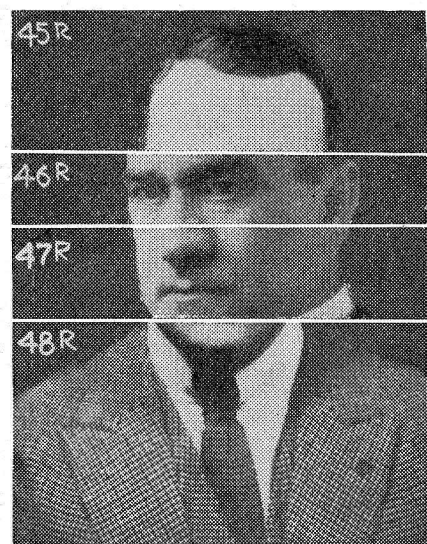
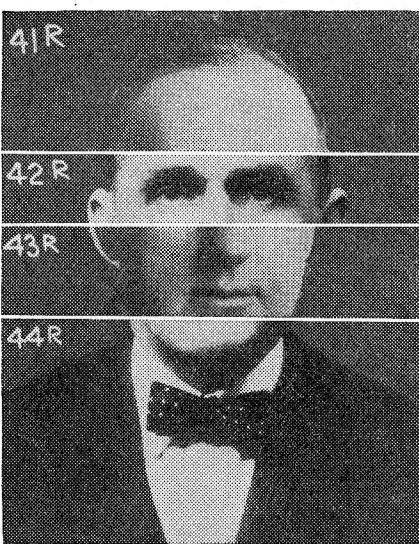
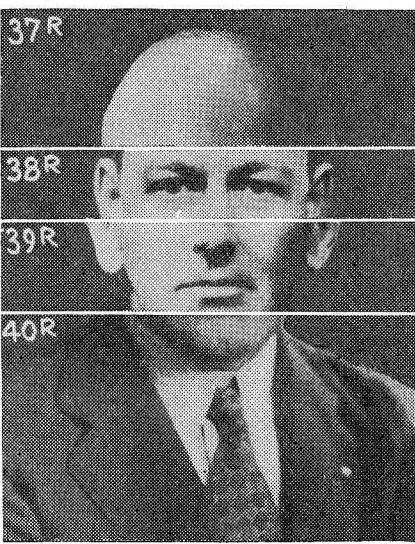
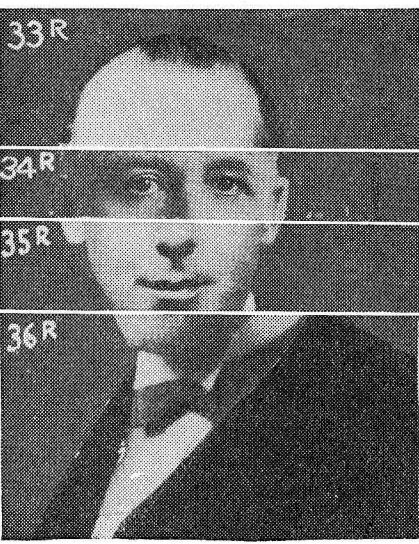
# ASSEMBLE THESE PICTURES OF RADIO ARTISTS



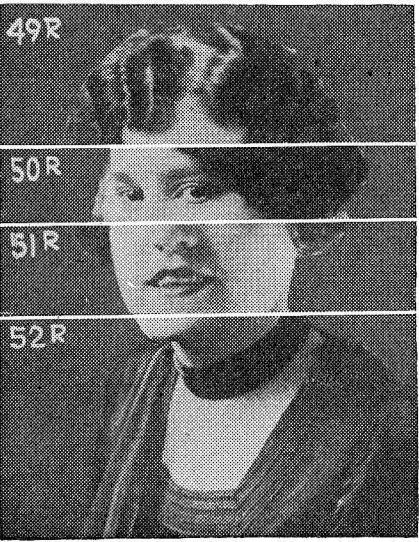
The following artists are in above panel: Cecile Steiner, WPG; Mildred Windell, WMCA; Margaret Irwin Cross, WPG; Nora Lovern Swagler, WMAK.



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.

# Radio Digest Illustrated

Reg. U. S. Pat. Off. & Dom. of Canada

Published by the  
**RADIO DIGEST PUBLISHING CO.,**  
(Incorporated)

510 North Dearborn Street  
Chicago, Illinois  
Telephones: Superior 7323, 7324, 7325, 7326, 7327

E. C. RAYNER, Publisher

Eastern Office, Park-Lexington Building, 247 Park Ave.,  
New York. Telephones: Ashland, 8144, 8145, 8146

Member of the Audit Bureau of Circulations



241  
PUBLISHED SEMI-MONTHLY

SUBSCRIPTION RATES

Yearly in U. S. and Possessions and Canada, \$3.00  
Foreign Postage, \$1.00 additional. Single copies, 15 cents.

Vol. XX February 1, 1927 No. 2

## Sue Slovenly Electric Companies

**I**N 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

**T**ELEGRAM 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 Johnnie 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 oreee 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 Dude, who hails from Kansas, says it's very hard to find  
Entertainment in this country that will ellervate 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, Polydore, it sounds."—Cymbeline. (He built it himself!)

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

"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.

### NuRSrie RiMES

ThEiR wuS an AnnoUnsCer wHAT LiVed in a Shoe, x5 1/2,  
He GoTT so MannEy LeettERS he dEd noT No whut  
Too Doo..,.

Soo HE StaRted too ReeDe Em oaVer tHee Mike.,.,  
& wE gott DeSgussted & quITT feR Thee NiTe.  
Yourns turLie,  
OLD KING TUTT.

Hiz-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 cussing 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 slave, 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 at 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 FAN.

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-cape-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 bat 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 CENTRAL TIME

Table listing radio stations by location and time slot. Columns include Call, Location, Met., Kc., and days of the week (Saturday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday).

STATIONS IN ORDER OF WAVE LENGTHS

Table listing radio stations in order of wave lengths. Columns include Meters, Call, Meters, Call, Meters, Call, Meters, Call, Meters, Call, Meters, Call.

New Stations

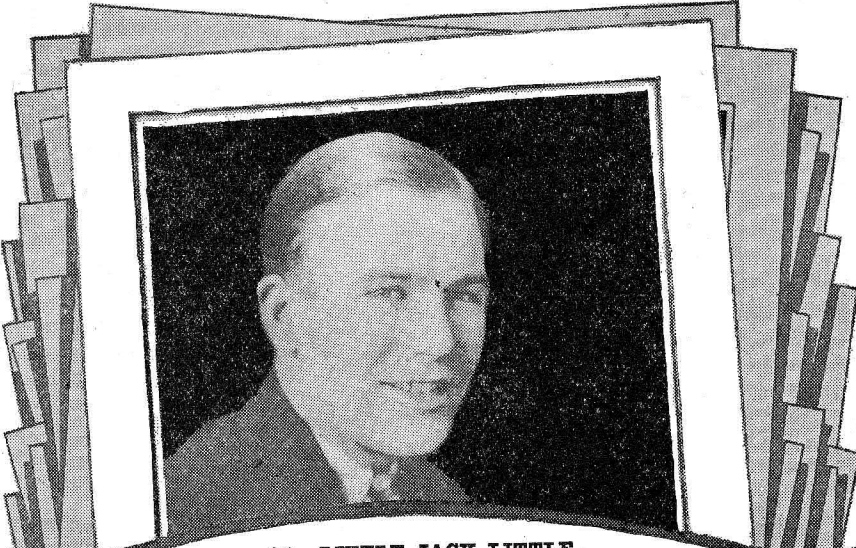
New stations licensed by the department of commerce last month include: WLBY, Iron Mountain, Mich., 249.9m-1200kc; WAOK, Ozone Park, N. Y., 247.8m-1210kc; WMBB, Newport, R. I., 249.9m-1200kc; WLXB, Long Island City, N. Y., 230.6m-1300kc; KKP, Seattle, Wash., 260m-1153kc; WLBU, Canastota, N. Y., 220m-1363kc; WLZ, Dover-Foxcroft, Maine, 299m-1003kc; KROW, Portland, Maine, 231m-1298kc; WLWB, Oil City, Pa., 321m-934kc; KGDW, Humboldt, Neb., 241.8m-1240kc; KGEF, Los Angeles, Calif., 516.9m-580kc; WABQ, Philadelphia, Pa., 260.7m-1150kc; KMED, Medford, Ore., 250m-1199kc; WLVB, Mansfield, Ohio, 230.6m-1300kc; WLBT, Crown Point, Indiana, 230m-1304kc; KGEK, Yuma, Colo., 252m-1190kc; WJAY, Cleveland, Ohio, 435.7m-688.1kc; KGEJ, Jamestown, N. D., 225m-1333kc; KGEH, Eugene, Ore., 236.1m-1270kc; KOMO, Seattle, Wash., 305.9m-980kc; WGL, New York, N. Y., 442.4m-678kc; WMBD, Peoria Heights, Ill., 279m-1075kc; WSIX, Springfield, Tenn., 250m-1199kc.

339.6kc; WSBT, South Bend, Ind., from 315m-951.8kc to 315.6m-950kc; KVI, Tacoma, Wash., from 242.5m-1237kc to 342.5m-875.4kc; KJBS, San Francisco, Calif., from 234.2m-1280kc to 220.4m-1360kc; WBR/L, Tilton, N. H., from 365m-821.4kc to 420m-713.9kc; KLZ, Denver, Colo., from 265.3m-1130kc to 384.4m-780kc.

The Illinois Stock Medicine Broadcasting corporation of Quincy, Ill., has purchased station WTAD. The Puget 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. WWAE 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 KGCI. KFEQ, 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. WSOM takes the place of WJVB and 288.3m-1040kc takes the place of 469.9m-638kc.

The following stations have changed their wave lengths: KRDL, Dallas, Texas, from 353m-849.4kc to 357.1m-



(3) LITTLE JACK LITTLE These Pictures Are 11 x 14

Free Photogravures of Your Favorite Artists

By special arrangement Radio Digest is now able to offer its readers a great opportunity to secure a selection of twelve fine photogravures of their favorite radio stars. These photogravures can only be compared with the finest photos obtainable. See coupon below.

Select Your Favorites From the Gallery of Radio Stars

- 1 Wendell Hall, king of ukulele ditties
2 Graham McNamee, 1925 Gold Cup announcer
3 Little Jack Little, crooning piano balladist
4 Billy B. Van, the Sunshine Man
5 Coon-Sanders' Original "Nighthawks"
6 George Hay, 1924 Gold Cup announcer
7 Ford and Glenn, Lullaby Boys of WLS
8 "Roxey" Rothafel of WEAF chain fame
10 The Hired Hand, famous "Substitute Announcer" of WBAP
11 Jerry Sullivan, of Chi-CAW-go fame.
12 Bob Emery, Big Brother of WEEI
13 "Bill" W. G. Hay, ex-KFKX, now of WLBI
14 Happiness Boys, jovial singers of WEAF
15 Lambdin Kay, "Little Colonel" of WSB
16 Leo Fitzpatrick, "Merry Old Chief," WJL
17 Henry Field, 1925 Gold Cup runner-up
18 Al Carney, organ favorite at WEEI
19 Earl E. May, 1926 Gold Cup Announcer.
20 Vincent Lopez, No. 1 Pennsylvania orchestra
21 E. L. Tyson, pleasing voice at WWJ
22 Bert Davis, "Clown of the Air."
23 Art Gillham, "The Whispering Pianist"
24 The Sunflower Girl of WBAP
25 Harry Ehrhart, "Dream Daddy" of WLIT
26 Correll and Gosden of "Kinky Kids Parade" fame, at WEBH and other stations.
27 Norman Brokenshire, popular at WRC, WJZ
28 Jane Novak, Blues Singer of Twin Cities, WCCO
30 Jean Sargent, the original, now at WHT
31 Ralph Emerson, popular organist at WLS
32 Edna Adams, of KPRC
33 Walter Wilson, "Uncle Bob" of KYW
34 Ray-O-Vac Twins, known country-wide
41 Art Linker, KYW's Mrs. Schlagenhauser
42 Fred Hamm of WTAS, now WLBI, fame

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Wathey in sports; 7, Jacques Jacobs' Hotel Shelton ensemble; 8, N. Y. University; 8:15, orchestra; 9, Studio Guild hour; 11, dance orchestra.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. Lee House trio; 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. Headliners.

WSAI Cincinnati, Ohio (325.9m-920kc) 7:15 p. m. chimes; 7:30, WEAF; 8, program; 8:30, WEAF; 9, WEAF; 10, WEAF; 10:30, studio; 11, dance orchestra.

WSKC Bay City, Mich. (260.7m-1150kc) 9-11 p. m. musicale.

WSMB New Orleans, La. (319m-940kc) 8:30 p. m. classics.

WTAC Worcester, Mass. (545.1m-550kc) 7 p. m. Powers Coal Miners; 7:30, program; 8, Bancroft hotel orchestra; 8:30, WEAF; 9, program; 10, WEAF.

WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Collegian serenaders; 7:15, talks; 7:30, WEAF; 8, studio recital; 8:30, WEAF; 9, program; 11, orchestra.

WWJ Detroit, Mich. (352.7m-820kc) 6 p. m. dinner concert; 8, WEAF.

Central Time Stations

CKY Winnipeg, Can. (384.4m-780kc) 9-10 p. m. Prof. Gregori Gorbovitsky, violinist.

KFAB Lincoln, Neb. (340.7m-880kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, request program.

KFNF Shenandoah, Iowa (461.3m-650kc) 7 p. m. concert, Henry Field Seed company; 11, frolic.

KMA Shenandoah, Iowa (461.3m-650kc) 9-11 p. m. Two piano concert, Ferguson Brothers.

KMOX St. Louis, Mo. (280.2m-1070kc) 6 p. m. dinner organ recital; 6:30, quartet; 7:30, quartet; 8, quartet; 9, soloists; 10:15, orchestra; 12-1, dance music.

KPRC Houston, Texas (299.8m-1000kc) 7:30 p. m. Jack Willrich's orchestra; 8:15, evening concert.

KSO Clarinda, Iowa (405.2m-740kc) 6:30 p. m. songs.

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

KVOO Bristow, Okla. (374.8m-800kc) 7-8 p. m. program; 8-9, Dorothy Heywood Reedy, artists; 12, dance orchestra.

KYW Chicago, Ill. (535.4m-560kc) 6:30 p. m. Toska DeBary and his orchestra; 7-9, WEAF; 9-10:30, Edison classical concert; 10:30-12, program.

WBBM Chicago, Ill. (226m-1330kc) 8, Coon-Sanders; 9-12, artists, orchestras; 12, Nutty club.

WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 6:45 p. m. Radio Pioneers' hour; 8, WEAF; 8:30, musicale; 9, WEAF; 10:30, orchestra; 11:30, organ recital, Eddie Dunstetter.

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

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

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

WEBH Chicago, Ill. (370.2m-810kc) 7 p. m. Edge-water Beach hotel orchestra; 9-11, orchestra, artists; 12-12:30, revue.

WEMC Berrien Springs, Mich. (315.6m-950kc) 8:15 p. m. recital.

WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Rauland trio; 8-9, trio; 9-10, Samovar orchestra; 12-2, frolic.

WGN Chicago, Ill. (302.8m-990kc) 6-10 p. m. music; 6:15, Funch and Judy; 6:35, Drake concert ensemble; 6:50-7, Old Fashioned Almanack; 7:15, Paul Ash; 8:30, Adventures of Oney Fred Sweet; 8:40, songs; 8:45-10, Arabian Nights' entertainment;

10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs, Tommy Coates; 10:30-12, The Pepper Party.

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

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

WHB Kansas City, Mo. (365.6m-820kc) 7-8 p. m. program; 10:30-11:30, midweek musicale.

WHO Des Moines, Iowa (526m-570kc) 6-7 p. m. Little symphony; 7-10, program; 10-11:30, dance music.

WHT Chicago, Ill. (399.8m-750kc) 6 p. m. Al Carney; 7:45 (238m-1260kc), orchestra, Stuart Dawson; 9:30 (399.8m-750kc), program; 10, variety program; 11, Al and Pat.

WIBO Chicago, Ill. (225.4m-1330kc) 6-8 p. m. dinner concert; 10-12, dance music.

WJAZ Chicago, Ill. (329.5m-910kc) 6:30 p. m. Shoreland hotel; 8, highlights; 9, diversified program.

WJJD Mooseheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-12, Palmer House Victorians.

WLIB Chicago, Ill. (302.8m-990kc) 8-8:30 p. m. WEAF; 12-12:45, opera club orchestra.

WLS Chicago, Ill. (344.6m-870kc) 6 p. m. Supperbell; 6:40, Maurie Sherman's College Inn orchestra; 6:55, Tony's scrap book; 7, May and June; 7:15, duo, Old Town Coffee room; 8, program; 9:15, WLS trio; 10-12, show boat.

WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 8, orchestra; 8-10, Northwestern U.; 9, music.

WMBB Chicago, Ill. (249.9m-1200kc) 7-7:30 p. m. Trioanon duo; 7:30-8:30, minstrels; 8:30-11, orchestra, artists.

WOAI San Antonio, Texas (394.5m-760kc) 8:30-9:30 p. m. Delaware Punch program.

WOC Davenport, Iowa (463.6m-620kc) 6:30-7:30 p. m. musicale; 9-9:30, WEAF; 9:30-10:30, musicale.

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

WOQ Kansas City, Mo. (278m-1080kc) 6:15 p. m. orchestra.

WORD Chicago, Ill. (275.1m-1090kc) 7 p. m. North Shore line; 7:45, ten minutes of good reading; 9, I. B. S. A. choral singers; 9:15, Bible lecture.

WOS Jefferson City, Mo. (440.9m-680kc) 7:30 p. m. address; 8:05, talk; 8:20, musicale.

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

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

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

WSOE Milwaukee, Wis. (245.8m-1220kc) 6:10 p. m. children's program; 7, popular program; 8, Whozit.

WSM Nashville, Tenn. (282.8m-1060kc) 6:45 p. m. dinner concert; 7:15, studio program; 8-10, evening program.

WSWS Chicago, Ill. (275.8m-1090kc) 6 p. m. Dinner hour program; Terrace Garden orchestra; 8, Terrace Garden orchestra; 10, popular program; 12 midnight, Witching hour.

Mountain Time Stations

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

Pacific Time Stations

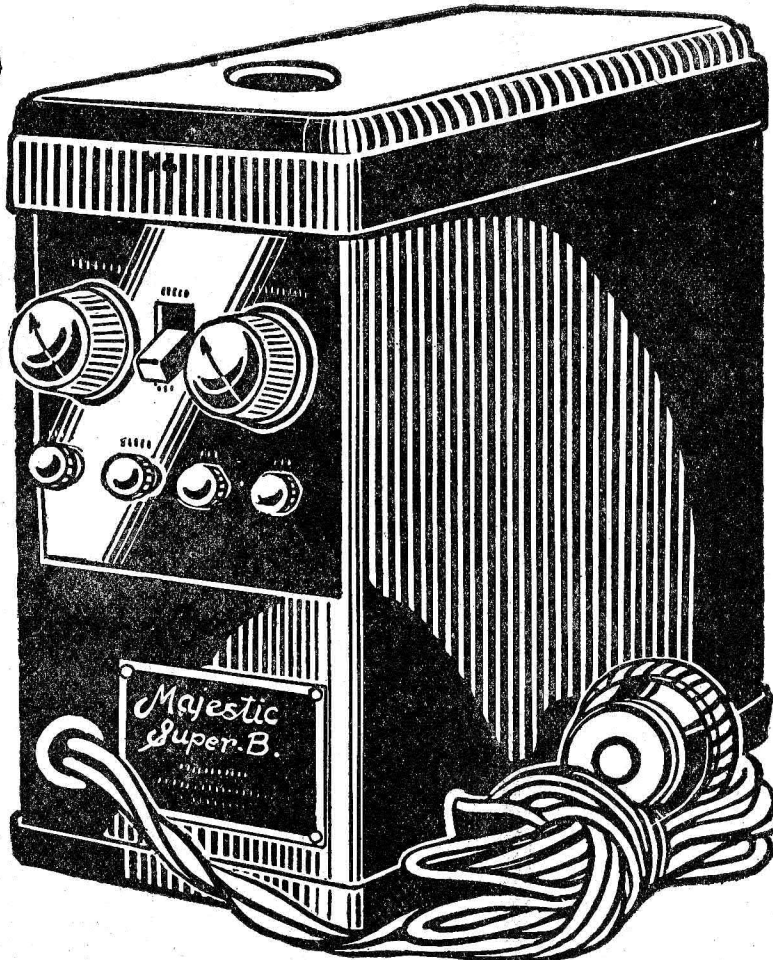
KFI Los Angeles, Calif. (467m-642kc) 7 p. m. Virginia ballroom orchestra; 7:30, Nick Harris; 8-9, program, California Petroleum corp.; 9-10, semi-classical hour; 10-11, Sunset instrumental quartet.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 7:50, news; 8-9, features; 9-10, Bill Hatch and his orchestra; 10-11, Warner Brothers frolic.

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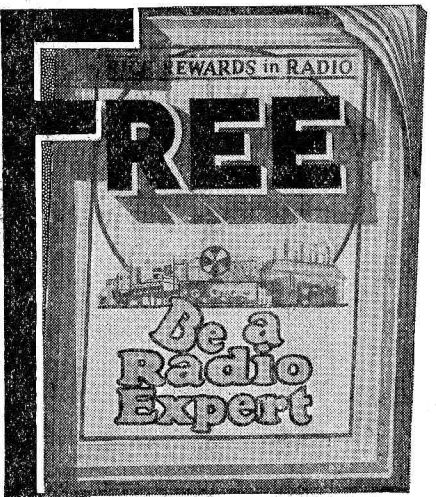
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## EDUCATIONAL FEATURES

| Monday                                                                                       |         |          |         |
|----------------------------------------------------------------------------------------------|---------|----------|---------|
| Eastern                                                                                      | Central | Mountain | Pacific |
| 2:30 p. m.                                                                                   | 1:30    | 12:30    | 11:30   |
| WFLA (389.4m-770kc) Music appreciation.                                                      |         |          |         |
| WGN (302.8m-990kc) "Correct English."                                                        |         |          |         |
| 6:30                                                                                         | 5:30    | 4:30     | 3:30    |
| WNYC (526m-570kc) Elementary German lessons, V. H. Berlitz.                                  |         |          |         |
| WDAF (365.6m-820kc) School of the Air.                                                       |         |          |         |
| WNYC (526m-570kc) Advanced German lessons.                                                   |         |          |         |
| 7:15                                                                                         | 6:15    | 5:15     | 4:15    |
| WEAF (491.5m-610kc) Columbia University.                                                     |         |          |         |
| WKAR (285.6m-1050kc) geology, economics.                                                     |         |          |         |
| 7:30                                                                                         | 6:30    | 5:30     | 4:30    |
| KSAC (340.7m-880kc) taxation.                                                                |         |          |         |
| 7:45                                                                                         | 6:45    | 5:45     | 4:45    |
| KDKA (309.1m-970kc) University of Pittsburgh.                                                |         |          |         |
| 7:55                                                                                         | 6:55    | 5:55     | 4:55    |
| WDBO (239.9m-1250kc) Rollins college.                                                        |         |          |         |
| 8:30                                                                                         | 7:30    | 6:30     | 5:30    |
| KUOA (299.8m-1000kc) Feb. 7, Costumes for Valentine parties; Feb. 14, Who Was St. Valentine? |         |          |         |
| WSUI (483.6m-620kc) U. of Iowa courses.                                                      |         |          |         |
| 9:30                                                                                         | 8:30    | 7:30     | 6:30    |
| KOB (348.6m-860kc) N. M. state college.                                                      |         |          |         |

| Tuesday                                                                                           |         |          |         |
|---------------------------------------------------------------------------------------------------|---------|----------|---------|
| Eastern                                                                                           | Central | Mountain | Pacific |
| 6 p. m.                                                                                           | 5       | 4        | 3       |
| WGN (302.8) Spanish lesson.                                                                       |         |          |         |
| 6:30                                                                                              | 5:30    | 4:30     | 3:30    |
| WNYC (526m-570kc) Elementary Italian lessons.                                                     |         |          |         |
| KVOO (374.8m-800kc) University of Tulsa.                                                          |         |          |         |
| WDAF (365.6m-820kc) School of the Air.                                                            |         |          |         |
| WNYC (526m-570kc) Advanced Italian lessons.                                                       |         |          |         |
| WTIC (475.9m-630kc) Trinity college course.                                                       |         |          |         |
| 7:10                                                                                              | 6:10    | 5:10     | 4:10    |
| WEAF (491.5m-610kc) Columbia university.                                                          |         |          |         |
| French lecture.                                                                                   |         |          |         |
| 7:15                                                                                              | 6:15    | 5:15     | 4:15    |
| WKAR (285.6m-1050kc) international relations; trends in education.                                |         |          |         |
| KSAC (340.7m-880kc) College of the Air.                                                           |         |          |         |
| Sociology.                                                                                        |         |          |         |
| WEEI (348.6m-860kc) Feb. 1, Edward Lewis, Mass. Agri. college; Feb. 8, Daniel L. Marsh, Boston U. |         |          |         |
| WGY (379.5m-790kc) Feb. 1, "Political Isolation," Prof. Godshall.                                 |         |          |         |
| 7:45                                                                                              | 6:45    | 5:45     | 4:45    |
| KDKA (309.1m-970kc) U. of Pittsburgh.                                                             |         |          |         |
| WEAO (293.9m-1020kc) travel talks.                                                                |         |          |         |
| 9:10                                                                                              | 8:10    | 7:10     | 6:10    |
| WMAQ (447.5m-670kc) University of Chicago.                                                        |         |          |         |
| 10:30                                                                                             | 9:30    | 8:30     | 7:30    |
| KFMX (336.9m-890kc) Feb. 1, Active Immunization.                                                  |         |          |         |

| Wednesday                                     |         |          |         |
|-----------------------------------------------|---------|----------|---------|
| Eastern                                       | Central | Mountain | Pacific |
| 4 p. m.                                       | 3       | 2        | 1       |
| KFAB (340.7m-880kc) Sociology lecture.        |         |          |         |
| 6:30                                          | 5:30    | 4:30     | 3:30    |
| WNYC (526m-570kc) Elementary Spanish lessons. |         |          |         |
| KVOO (374.8m-800kc) Law lecture, U. of T.     |         |          |         |
| WDAF (365.6m-820kc) School of the Air.        |         |          |         |
| WNYC (526m-570kc) Advanced Spanish lessons.   |         |          |         |
| 7:15                                          | 6:15    | 5:15     | 4:15    |
| WKAR (285.6m-1050kc) rural literature.        |         |          |         |

| Thursday                                                                              |         |          |         |
|---------------------------------------------------------------------------------------|---------|----------|---------|
| Eastern                                                                               | Central | Mountain | Pacific |
| 7 p. m.                                                                               | 6       | 5        | 4       |
| KVOO (374.8m-800kc) U. of Tulsa.                                                      |         |          |         |
| WDAF (365.6m-820kc) School of the Air.                                                |         |          |         |
| 7:15                                                                                  | 6:15    | 5:15     | 4:15    |
| WKAR (285.6m-1050kc) international relations, sociology.                              |         |          |         |
| 8:15                                                                                  | 7:15    | 6:15     | 5:15    |
| WDBO (239.9m-1250kc) Literary Appreciation series.                                    |         |          |         |
| 8:30                                                                                  | 7:30    | 6:30     | 5:30    |
| KUOA (299.8m-1000kc) Feb. 3, life in other worlds, economics; Feb. 10, stary heavens. |         |          |         |
| WEAO (293.9m-1020kc) engineering.                                                     |         |          |         |
| WOW (270.1m-1110kc) Iowa State Radio courses.                                         |         |          |         |
| 9:10                                                                                  | 8:10    | 7:10     | 6:10    |
| WMAQ (447.5m-670kc) U. of C. lecture.                                                 |         |          |         |

| Friday                                                                          |         |          |         |
|---------------------------------------------------------------------------------|---------|----------|---------|
| Eastern                                                                         | Central | Mountain | Pacific |
| 6:30 p. m.                                                                      | 5:30    | 4:30     | 3:30    |
| WNYC (526m-570kc) Elementary French lesson.                                     |         |          |         |
| WDAF (365.6m-820kc) School of the Air.                                          |         |          |         |
| WNYC (526m-570kc) Advanced French lessons.                                      |         |          |         |
| WOW (526m-570kc) "Musical Appreciation," Hester Bronson Copper.                 |         |          |         |
| 7:15                                                                            | 6:15    | 5:15     | 4:15    |
| KVOO (374.8m-800kc) Law, U. of Tulsa.                                           |         |          |         |
| 7:30                                                                            | 6:30    | 5:30     | 4:30    |
| WKAR (285.6m-1050kc) coal.                                                      |         |          |         |
| KSAC (340.7m-880kc) sociology.                                                  |         |          |         |
| 7:55                                                                            | 6:55    | 5:55     | 4:55    |
| WDBO (239.9m-1250kc) Rollins college.                                           |         |          |         |
| KSAC (340.7m-880kc) Feb. 4, voice, languages; Feb. 11, sources of good reading. |         |          |         |
| 8:05                                                                            | 7:05    | 6:05     | 5:05    |
| WOR (405.2m-740kc) N. Y. U.                                                     |         |          |         |
| 8:15                                                                            | 7:15    | 6:15     | 5:15    |
| WOR (405.2m-740kc) N. Y. university.                                            |         |          |         |
| 10:15                                                                           | 9:15    | 8:15     | 7:15    |
| KOAC (280.2m-1070kc) Feb. 11, "O. Henry's Essential Nobility of Character."     |         |          |         |

| Saturday                                       |         |          |         |
|------------------------------------------------|---------|----------|---------|
| Eastern                                        | Central | Mountain | Pacific |
| 7 p. m.                                        | 6       | 5        | 4       |
| WOW (526m-570kc) Historical talks.             |         |          |         |
| 8:30                                           | 7:30    | 6:30     | 5:30    |
| WOW (526m-570kc) Creighton educational period. |         |          |         |
| 9:30                                           | 8:30    | 7:30     | 6:30    |
| WMAQ (447.5m-670kc) photologues.               |         |          |         |

WIAR, WGN, WADC, WCSH; 11. Vincent Lopez and his orchestra from Casa Lopez, WGY.

WEAO Columbus, Ohio (293.9m-1020kc) 8:15 p. m. headliners.

WEEI Boston, Mass. (348.6m-860kc) 6:10 p. m. Palais Royal orchestra; 7:50, Boston Globe broadcast; 8, musical; 9-11, WEAF.

WFI Philadelphia, Pa. (394.5m-760kc) 8 p. m. The Serenaders; 8:30, recital; 9, WEAF; 10, WEAF.

WGBS New York, N. Y. (315.6m-950kc) 6 p. m. program.

WGHB Clearwater, Fla. (265.3m-1130kc) 7 p. m. dinner music; 7:45, Clearwater Scarlet Guards; 8:45, Euphemia Kavassa; 10, orchestra.

WGHP Detroit, Mich. (270.1m-1110kc) 6 p. m. dinner concert, Hotel Tuller; 10-11, WGHP Frolickers; 11-12, dance orchestra.

WGR Buffalo, N. Y. (319m-940kc) 6:30-7:30 p. m. Vincent Lopez Hotel Statler orchestra; 8-11, WEAF.

WGY Schenectady, N. Y. (379.5m-790kc) 6:30 p. m. dinner music; 7:45, musicale; 9, WEAF; 10-11:30, program; 11:30, organ.

WHK Cleveland, Ohio (272.6m-1100kc) 6 p. m. orchestra; 10, sacred hour.

WHN New York, N. Y. (361.2m-830kc) 7 p. m. Iceland dance orchestra; 8, Will Oakland's Chateau; 9:30, Loew's theater; 12, The Playground.

WICC Bridgeport, Conn. (232.4m-1290kc) 7 p. m. studio program.

WIP Philadelphia, Pa. (508.2m-590kc) 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. (516.9m-580kc) 7 p. m. Jean Goldkette's Petite symphony orchestra; soloists; 7:30, Ide and Meginnity, entertainers; 9, studio program.

WJZ New York, N. Y. (454.3m-660kc) 7 p. m. Hotel Pennsylvania orchestra; 8, Bi-Spun yarns, WBZ, KYW, KDKA; 8:30, Market's society orchestra, WBZ, KDKA, KYW; 9, R. C. A. radiotrons; WBZ, KDKA, KYW; 10, Erva Giles, soprano; 10:30-11:30, Frivolity orchestra.



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Select stations at will. Especially necessary for 1 and 2 dial controlled sets. Under present conditions the average set fails to bring in the desired stations properly. The **Steinite Interference Eliminator** shuts out local and other interference. You get one station at a time, the one you want, and tune in loud and clear. Operates on any set—attach to aerial wire and to set—no changes—no extra tubes or batteries.

**New 1927 Model**

**Over 400,000 Sold.**

**Improved Results with Tube or Crystal**

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. REFERENCES: Exchange National Bank, Atenson Savings Bank.



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

**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%

### Positively the Greatest Value in "B" Eliminators

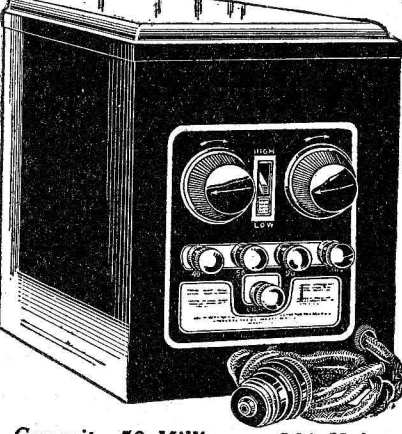
While the regular market price of the Genuine is around \$50.00, our factory-to-you price is only \$22.95. At this price, everyone can afford to own a Genuine and forever discard his B batteries. A "B" eliminator enables you to draw your B current from the light socket. There is more uniform and constant 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.

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



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

Duco finish; the metal fittings of polished nickel; the genuine RAYTHEON tube. Comes completely wired and ready to use from 60-cycle, 110-volt alternating current. The filtering system with its extra capacity, 1000-volt test condensers, and massive, oversize 40-Henry chokes smooth out every ripple and hum from the alternating current. There is nothing to deteriorate, wear out, or replace. 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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# A & B Battery Charger ONLY \$2

## SATISFACTION GUARANTEED

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Cannot possibly injure your battery, and will last for years. Many radio fans find it a tremendous success as a trickle 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.

**PROOF!**

"I received your charger and have used same, and am very much pleased with it. It certainly does charge up a battery in quick time."  
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"The charger I received from you is giving entire satisfaction."  
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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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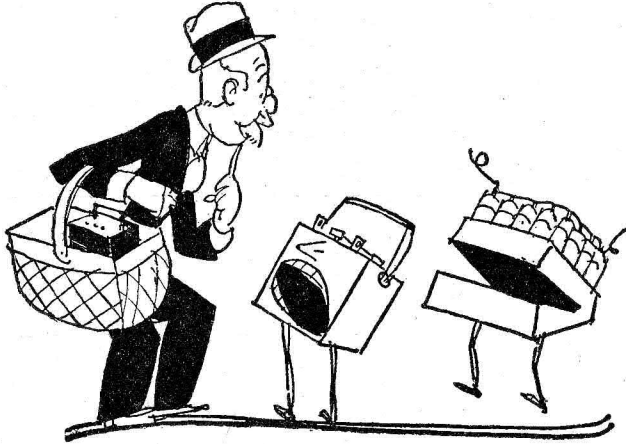
Jacquot Jules is her name. She is program director of KMOX and besides finds time to play the organ, harp and piano.

- WKRC Cincinnati, Ohio (422.3m-710kc) 10 p. m. Louisville Loons; 10:30, baritone; 11, piano; 11:15, dance music.
  - WLIT Philadelphia, Pa. (394.5m-760kc) 7:30 p. m. concert orchestra.
  - WLW Cincinnati, Ohio (422.3m-710kc) 7:40 p. m. orchestra; 10, light opera; 11, Melody Boys; 12:15 a. m. Night Howls.
  - WLWL New York, N. Y. (288.3m-1040kc) 8:30 p. m. Question box; 9:30, trio.
  - WMAK Buffalo, N. Y. (265.5m-1130kc) 6:15 p. m. Hotel Lafayette trio; 8:30, music club; 9, musicale; 10, dance.
  - WMBF Miami Beach, Fla. (384.4m-780kc) 7 p. m. dinner concert; 8, popular program; 10, dance orchestra.
  - WMCA New York, N. Y. (340.7m-880kc) 7 p. m. orchestra; 9, Solow soloists; 9:30, Nutty half hour; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, Broadway Nite.
  - WNYC New York, N. Y. (526m-570kc) 6:40 p. m. piano selections; 7:20, piano selections.
  - WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. dance orchestra.
  - WOR Newark, N. J. (405.2m-740kc) 6:15 p. m. Jacques Jacobs' Hotel Shelton ensemble; 6:45, Bill Wathey in sports; 7, Jacques Jacobs' Hotel Shelton ensemble; 10:45, entertainers; 11, orchestra; 11:35, orchestra.
  - WPG Atlantic City, N. J. (299.3m-1000kc) 7:10 p. m. organ recital, Arthur Brook; 7:30, Hotel Morton dinner music; 8, world wonder excursions; 8:15, studio concert; 9:45, program; 10, movie broadcast; 10:20, organ recital; 11:20, Silver Slipper Supper club dance orchestra.
  - WRC Washington, D. C. (468.5m-640kc) 7 p. m. dinner music; 8, U. S. Navy band; 10-11, band.
  - WRVA Richmond, Va. (256.3m-170kc) 8:20 p. m. evening program; 11, Carry me back to Old Virginia.
  - WSAI Cincinnati, Ohio (325.9m-920kc) 6:40 p. m. talk; 6:45, chimes; 7, musicale; 7:30, request program; 8-11, WEAF; 11, music.
  - WTAC Worcester, Mass. (545.1m-550kc) 8 p. m. program; 8:30, Standard trio; 9, WEAF; 10, WEAF.
  - WTAM Cleveland, Ohio (389.4m-770kc) 6 p. m. Hollenden hotel orchestra; 7:30, studio program; 10, studio program; 11, Collegian serenaders.
  - WTIC Hartford, Conn. (475.9m-630kc) 6 p. m. Hotel Heublein trio; 7, midweek religious sing; 7:30, staff artists; 8, Outlet Owlets; 8:30, Capitol theater presentation.
  - WWJ Detroit, Mich. (352.7m-820kc) 6 p. m. dinner concert; 8, WEAF.
- Central Time Stations**  
 CKY Winnipeg, Can. (384.4m-780kc) 8:30-9 p. m. studio program; 9-10, J. A. Banfield company's concert.

- KFAB Lincoln, Nebr. (340.7m-880kc) 8:30-10:30 p. m. out of town program.
- KFNF Shenandoah, Iowa (461.3m-650kc) 7 p. m. concert.
- KLDS Independence, Mo. (440.9m-680kc) 8 p. m. studio program.
- KOIL Council Bluffs, Ia. (305.9m-880kc) 6 p. m. program; 7, farm program; 7:30, oil burner; 8, music hour; 11, orchestra.
- KPRC Houston, Texas (299.8m-1000kc) 8 p. m. evening program; 8:30, glee club; 11, entertainment.
- KSO Clarinda, Iowa (405.2m-740kc) 6:30 p. m. concert.
- KTSH Hot Springs National Park, Ark. (374.8m-800kc) 9-10:10 p. m. program; 10:10, dance program.
- KVOO Bristow, Okla. (374.8m-800kc) 7-7:30 p. m. Hawaiian music; 7:30-8, Irene Buchner; 8-9, music lovers hour; 12, American Legion frolic.
- KYW Chicago, Ill. (535.4m-560kc) 6:30 p. m. Joska DeBabay and his orchestra; 7, WJZ; 9-10:30, classical concert; 10:30-12, Congress carnival.
- WBAP Fort Worth, Tex. (475.9m-630kc) 7:30-8:30 p. m. saxophone octet; 9:30-11, program; 11-12, organ.
- WBBM Chicago, Ill. (226m-1330kc) 8 p. m. Coon-Sanders Night Hawks; 9-11, orchestra, piano; 11, Coon-Sanders Night Hawks.
- WCBD Zion, Ill. (344.6m-870kc) 8 p. m. musicale.
- WCCO Minneapolis-St. Paul, Minn. (416.4m-720kc) 8 p. m. WEAF; 10:05, talk.
- WCFL Chicago, Ill. (491.5m-610kc) 6 p. m. talks; 7, Brevort trio; 8-12, classical music, Superior players.
- WDAF Kansas City, Mo. (365.6m-820kc) 6-7 p. m. school of the air; 11:45-11, Nighthawk frolic.
- WEBH Chicago, Ill. (370.2m-810kc) 7-8 p. m. Uptown theater; 9:30-11, musicale.

- WENR Chicago, Ill. (265.3m-1130kc) 6-7 p. m. Rauland trio; 8-9, trio; 9-10, popular program.
- WFAA Dallas, Texas (475.9m-630kc) 6:30-7:30 p. m. Baker hotel orchestra; 8:30-9:30, concert.
- WGN Chicago, Ill. (302.8m-890kc) 6:35 p. m. Drake concert ensemble; Blackstone string quartet; 8-10, WEAF; 10, Sam 'n' Henry; 10:10, The Music Box; 10:20, Mark Love, bass; Bobby Meeker's Drake hotel orchestra; 10:30-11, songs, Correll and Gosden.
- WHAD Milwaukee, Wis. (275.1m-1090kc) 6:15 p. m. orchestra and vocal selections, Wisconsin hotel orchestra; 8:30, studio program, 10, orchestra.
- WHAS Louisville, Ky. (399.8m-750kc) 7:30-9 p. m. concert.
- WHB Kansas City, Mo. (365.6m-820kc) 7-7:30 p. m. organ concert; 7:30-9, talks; 9-10, songsters.
- WHO Des Moines, Ia. (526m-570kc) 7:30-8 p. m. dinner concert; 8-9, music; 11-12, dance program.
- WHT Chicago, Ill. (399.8m-750kc) 6 p. m. Al Carney, organist, violin; 7:45 (238m-1260kc), orchestra, songs; 10:30, quartet; 11, Al and Pat.
- WIBO Chicago, Ill. (225.4m-1330kc) 6-8 p. m. dinner concert; 12-2, Aragon minstrels.
- WJAZ Chicago, Ill. (329.5m-910kc) 7 p. m. diversified program; 9, Shoreland.
- WJJD Mooseheart, Ill. (370.2m-810kc) 8-9 p. m. child artists; 11-1 a. m. Palmer House Victorians.
- WLIB Chicago, Ill. (302.8m-890kc) 7-8 p. m. dinner concert; 11-12:30, organ, orchestras.
- WLS Chicago, Ill. (344.6m-870kc) 6:30 p. m. sports; 6:40-7:55, artists; 10:30-12:30, orchestras.
- WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 6:30, orchestra; 8, program; 8:05, U. of Chicago; 8:30, trio; 9, players.
- WMBB Chicago, Ill. (249.9m-1200kc) 7-8:30 p. m. Trianon ensemble; 8:30-11, orchestra; Arthur Truesdale.

- WMC Memphis, Tenn. (499.7m-600kc) 8 p. m. talk on Memphis commerce; 8:30, program.
  - WQAI San Antonio, Tex. (394.5m-760kc) 8:30-9:30 p. m. Radiola Super-Heterodyne hour.
  - WOC Davenport, Iowa (483.6m-620kc) 7:30-8 p. m. Moline Flowboys; 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-1380kc), theater program; 9:30-12 (238m-1260kc), syncopators.
  - WORD Chicago, Ill. (275.1m-1090kc) 7 p. m. Webster Hotel duo orchestra; 9, musicale.
  - WOW Omaha, Nebr. (526m-570kc) 6 p. m. Vagabonds; 9, classical program; 10, Roseland Gardens.
  - WQJ Chicago, Ill. (447.5m-670kc) 7-8 p. m. Rainbo Gardens orchestra; specialty; 10-2 a. m. Rainbo frolic.
  - WRR Dallas Tex. (245.8m-1220kc) 6 p. m. music; 8, band; 9, Bible class; 11-12, old-time music.
  - WSB Atlanta, Ga. (428.3m-700kc) 8 p. m. concert; 10:45, Charles A. Sheldon, Jr., organist.
  - WSBC Chicago, Ill. (288.3m-1040kc) 6-7 p. m. dinner program; 9-1 entertainers.
  - WSM Nashville, Tenn. (282.8m-1060kc) 6:15 p. m. announcements; 6:45, orchestra; 7:15-9:30, music.
  - WSME New Orleans, La. (319m-940kc) 8:30 p. m. dance program.
  - WSOE Milwaukee, Wis. (245.5m-1220kc) 6 p. m. children's hour; 7, popular music; 9, bridge; 9:30, community band.
  - WSWS Chicago, Ill. (275.8m-1090kc) 6 p. m. dinner hour program; Terrace Garden orchestra; 8, production, the Magic Crystal; 10, popular airs; 12, Witching hour program.
- Pacific Time Stations**  
 KFI Los Angeles, Calif. (467m-642kc) 7-8 p. m. program by students of U. S. C.; 8-9, KFI drama hour;



*What's power for "A" is power for "B"*

—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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**The Westinghouse Rectigon Battery Charger**

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



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



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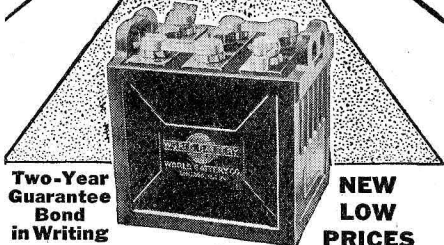


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**Two-Year Guarantee Bond in Writing** **NEW LOW PRICES**

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- 6 - Volt, 13 - Plate \$12.00
- 12 - Volt, 7 - Plate \$14.50

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



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

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

Regular Saturday Features Eastern Time Stations CKAC Montreal, Que., Can. (410.7m-730kc) 7:15 p. m. dinner concert; 10:30, Red Jackets.

SATURDAY, FEBRUARY 5 Headliners

Table with columns for Eastern, Central, Mountain, and Pacific time zones, listing radio stations and their programs for Saturday, February 5.

Eastern 8:25 p.m. WIP (508.2m-590kc) Raymond W. Mason, violinist. Central 7:25 Raymond W. Mason, violinist.

Regular Saturday Features Eastern Time Stations

CKAC Montreal, Que., Can. (410.7m-730kc) 7:15 p. m. dinner concert; 10:30, Red Jackets. CKCL Toronto, Can. (357m-840kc) 7-8 p. m. trio.

cert: 9:30 Starlight Players; 10, quartet; 10:30, Adelphia French kloom orchestra. WGBS New York, N. Y. (315.6m-950kc) 7 p. m. music.

WTIC Hartford, Conn. (475.9m-630kc) 6 p. m. Hub Restaurant trio; 8, program; 10, orchestra. WJJ Detroit, Mich. (352.7m-820kc) 9 p. m. WJEF.

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Advertisement for 'NEW 64 PAGE Revisable Log And RADIO INFORMATION BOOK' featuring a 'Free LOG and RADIO ENCYCLOPEDIA' and listing various radio-related guides like 'Wave Length Table' and 'Dictionary of Radio Terms'.

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To introduce our new 64 page automatic loose leaf Log and Data Book into more communities, for a limited time, we make the special free offer below. This log is truly revisable and can be kept up to date.

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Trickle Charger, \$3.95 Charges "A" or "B" batteries using ordinary house current. Hooked to your "A" battery gives complete "A" power unit.

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Form for ordering: Send \$1 with this Coupon. Name, Address, City, State, and Town fields.





**Central Time Stations**  
**KYK Winnipeg, Can.** (384.4m-780kc) 11 a. m. Wesley church; 7:30 p. m. First English Lutheran church; 9-10, Royal Alexandre hotel.  
**KFAB Lincoln, Neb.** (340.7m-880kc) 9-10:30 p. m. Sunday evening musicale.  
**KFH Wichita, Kan.** (268m-1120kc) 7 p. m. church service.  
**KFNF Shenandoah, Iowa** (461.3m-650kc) 10:45 a. m. services; 2:30 p. m. Seed House song service; 3, program; 6:30, Golden Rule Circle.  
**KLDS Independence, Mo.** (440.9m-680kc) 8:30 a. m. Bible study; 11, Stone church; 3 p. m. Radio church; 6:30, vespers; 9:15, studio service.  
**KMA Shenandoah, Iowa** (461.3m-650kc) 4-5 p. m. sacred program; 7:30-8:30, service.  
**KMOX St. Louis, Mo.** (280.2m-1070kc) 8 p. m. Fourth Church of Christ, Scientist; 9, Sunday night club; 10:30-12, ballroom.  
**KOIL Council Bluffs, Iowa** (305.9m-980kc) 11 a. m. First Congregational church; 7, children's hour; 7:30, program; 11, Paramount orchestra.  
**KPRC Houston, Texas** (299.8m-1000kc) 7:30 p. m. church service; 9:30, evening concert; 11, Texan theater pipe organ.  
**KSO Clarinda, Iowa** (405.2m-740kc) 11 a. m. M. E. church.  
**KTHS Hot Springs National Park, Ark.** (374.8m-800kc) 11 a. m.-12:15 p. m., service; 9-9:45, Meyer Davis ensemble, classic hour concert; 10, organist; 10:30-11:30, Arkansas Traveler Radio Train.  
**KVOO Bristow, Okla.** (374.8m-800kc) 1-2 p. m. Walter Schoggan, Doris Kintner; 5-6, Gospel hour; 6-7, Sophia Osina, pianist; 7-9, services; 12-1, Melody Boys.  
**KYW Chicago, Ill.** (535.4m-560kc) 11 a. m. Central church service; 4:30 p. m. studio concert; 7-8:30, Sunday evening club; 9:30-11, classical concert.  
**WBAP Fort Worth, Texas** (475.9m-630kc) 11 a. m. First Methodist; 12:30-1:30 p. m. vesper; 5-6, vesper services, Baptist seminary; 9:30-11, Sorin-White Texas hotel orchestra.  
**WBBM Chicago, Ill.** (226m-1330kc) 8 p. m. Coon-Sanders Night Hawks; 9-12, frolic; 12, Nutty club; Coon-Sanders orchestra.  
**WCBD Zion, Ill.** (344.6m-870kc) 8 p. m. Sunday evening musicale.  
**WCCO Minneapolis-St. Paul, Minn.** (416.4m-720kc) 10:50 a. m. services; 4:10 p. m. House of Hope Presbyterian church; 6:20, Second Church of Christ, Scientist; 8:15, WEAF; 9:15, musical program, Chippewa Indians; 10, St. Paul Municipal organ recital; Hugo Philler Goodwin.  
**WCFL Chicago, Ill.** (491.5m-610kc) 2-4 p. m. fellowship club; 7:45, Belden Avenue Baptist church.  
**WDAF Kansas City, Mo.** (365.6m-820kc) 3-4 p. m. Star's orchestra; 4-4:45, vespers.  
**WEBH Chicago, Ill.** (370.2m-810kc) 10:35 a. m. Seventh Church of Christ, Scientist; 5-6 p. m. twilight musicale; 7-9, artists' program.  
**WEMC Berrien Springs, Mich.** (315.6m-950kc) 11 a. m. studio sacred service; 8:15 p. m. chapel.  
**WENR Chicago, Ill.** (265.5m-1130kc) 2-4 p. m. classical program; 9:30-10:30, classical program; 10:30-12, Samovar orchestra.  
**WFDA Dallas, Texas** (475.9m-630kc) 6-7 p. m. Bible class; 7:30-8:30, services; 8:30-9:30, artists; 11-12, orchestra.  
**WGBF Evansville, Ind.** (236.1m-1270kc) 7:30 p. m. services.  
**WGN Chicago, Ill.** (302.8m-990kc) 6:45-7 p. m. Blackstone string quintet, solo artists; 7, The Million Sing; 7:20, Old Fashioned Almanack; 7:30, Drake concert ensemble; Correll and Gosden; 8, Auld Sandy; 8:15, WEAF; 9:15, Our Music Room; 10, Sam 'n' Henry; 10:10, Armand Buisseret, violinist; 10:20, Bible reading; 10:25, piano.  
**WHAD Milwaukee, Wis.** (275.1m-1090kc) 3:15 p. m. Thurgerein concert.  
**WHAS Louisville, Ky.** (399.8m-750kc) 10 a. m. services; 4:30-5:30 p. m. choral evensong; 6:20, WEAF; 9:15, WEAF.  
**WHB Kansas City, Mo.** (365.6m-820kc) 9:40 a. m. Linwood Blvd. Christian church; 11:10-12:30, Independence Blvd. Christian church; 7:45, Dr. Burriss A. Jenkins; 8-9, Westport Methodist church; 11-15-1, Merrill Moore, organist; Don Anchors, poet.  
**WHO Des Moines, Iowa** (526m-570kc) 11 a. m. service; 5-6 p. m. Bankers Life Little symphony; 7:30-8:15, orchestra; 11-12, musical program.

**WHT Chicago, Ill.** (399.8m-750kc) 1-12 midnight, Paul Rader.  
**WJAZ Chicago, Ill.** (329.5m-910kc) 4:30-9 p. m. Sunday evening concert.  
**WJJD Mooseheart, Ill.** (370.2m-810kc) 7:45-8:45 a. m. Catholic services; 9:30-10:30, Protestant services; 1-2 p. m. Howard Peterson, organist; 2-2:30, Bible class; 2:30, Sacred song service; 3-4, popular concert; 4-5, Palmer House Sunday symphony orchestra.  
**WLIB Chicago, Ill.** (302.8m-990kc) 5-6:15 p. m. Herbert Johnson, pianist; Leon Lichtenfeld, cellist; Tommy Coates, baritone; Blackstone string quintet.  
**WLS Chicago, Ill.** (344.6m-870kc) 10:45 a. m. University of Chicago service; 12:15, Elsie Mae Look, organist; 12:30-2:30, chapel service; 6-8, WLS Little Brown church.  
**WMBB Chicago, Ill.** (249.9m-1200kc) 3-6 p. m. Sunday afternoon concert; 7:40, Fifth Church of Christ, Scientist; 9-11, rianon orchestra, artists.  
**WMC Memphis, Tenn.** (499.7m-600kc) 11 a. m. church service.  
**WOAI San Antonio, Tex.** (394.5m-760kc) 11 a. m. First Presbyterian church; 7:45, Central Christian church.  
**WOC Davenport, Iowa** (483.6m-620kc) 1-2 p. m. old folks' musicale; 6:30-7, church service; 8:15-9:15, WEAF; 10-11, Palmer Little symphony.  
**WQQ Kansas City, Mo.** (278m-1080kc) 11 a. m. Unity service; 7 p. m. evening service; 7:45, Grand Avenue Methodist church.  
**WORD Chicago, Ill.** (275.1m-1090kc) 10 a. m. I. B. S. A. service; 2:30 p. m. Chicago Rapid Transit company program; 3:30, Bible lecture; 7, Webster hotel duo orchestra; 9, I. B. S. A. choral singers.  
**WOW Omaha, Neb.** (526m-570kc) 9 a. m. Omaha Gospel tabernacle; 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. People's church; 3-4, musical program; 8-10, popular program; Rainbo Gardens orchestra; Jack Klein, Adelaide Kerkoff, Harry Geise.  
**WRR Dallas, Tex.** (245.8m-1220kc) 11 a. m. service; 8 p. m. service; 9:30, program.  
**WSB Atlanta, Ga.** (428.3m-700kc) 6:20 p. m. WEAF; 9:15, WEAF.  
**WSBC Chicago, Ill.** (288.3m-1040kc) 5-7 p. m. Sunday concert; 9-11, concert.  
**WSM Nashville, Tenn.** (282.8m-1060kc) 6:20 p. m. WEAF; 9:15, WEAF.

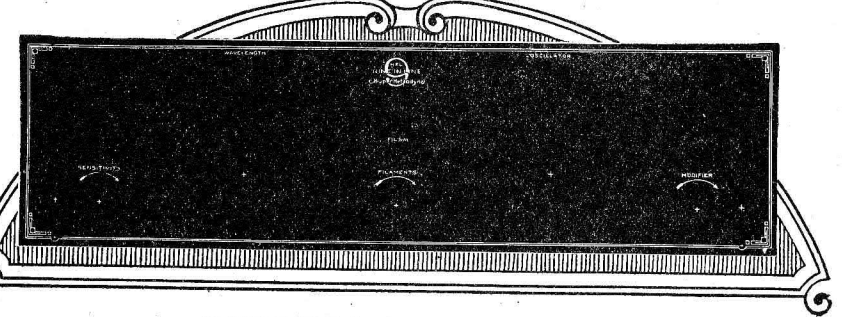
**Mountain Time Stations**  
**KOA Denver, Colo.** (322.4m-930kc) 10:30 a. m. church service; 3 p. m. afternoon musicale; 6:30, organ; 7:45, church service.  
**Pacific Time Stations**  
**KFI Los Angeles, Calif.** (467m-642kc) 7-8 p. m. Jack Smith's dance orchestra; 8-9, Aeolian organ recital; 9-10, Bob Bottger's Venetians; 10-11, Packard Six dance orchestra.  
**KFWB Hollywood, Calif.** (252m-1090kc) 9-11 p. m. Warner Brothers Sunday night movie frolic.  
**KGO Oakland, Calif.** (361.2m-830kc) 11 a. m. service; 2:40 p. m. symphony; 6:30-7:30, little symphony; 7:35, service; 9-10, symphony.  
**KGW Portland, Ore.** (491.5m-610kc) 11 a. m. church; 7:30-9 p. m. church; 9-10, symphony orchestra.  
**KHJ Los Angeles, Calif.** (405.2m-740kc) 7-8 p. m. service, First M. E. church; 8-10, Request program by Orpheus Four male quartet and Frederick MacMurray, viola soloist.  
**KMTR Hollywood, Calif.** (370.2m-810kc) 6:30-7 p. m. Leila Castberg's half hour; 7-8, Cafe Lafayette string quartet; 8-9:30, orchestra.  
**KNX Hollywood, Calif.** (336.9m-890kc) 6:30 p. m. service.  
**KPO San Francisco, Calif.** (428.3m-700kc) 6 p. m. States Restaurant orchestra; 6:35, Palace hotel concert orchestra; 8:35-10, Rudy Seiger's Fairmont hotel concert orchestra; 10-12, rianon ballroom.  
**KPSN Pasadena, Calif.** (315.6m-950kc) 10:30 a. m. Family Altar service, United Brotherhood.  
 Sunday, silent night for: CKAC, CKNC, CNRW, KFDY, KFXF, KXK, KMA, KOB, KSWC, KWVG, WABC, WCFL, WCOA, WDAF, WEBJ, WFI, WGBF, WGHV, WGHP, WHAS, WHB, WJJD, WJR, WLIT, WLWL, WMAQ, WMC, WNYC, WOI, WOO, WOR, WSMB, WRVA, WSWs, WTC.

**MONDAY, FEBRUARY 7**

**Headliners**

| Eastern                                            | Central | Mountain | Pacific |
|----------------------------------------------------|---------|----------|---------|
| 7:15 p. m.                                         | 6:15    | 5:15     | 4:15    |
| WJR (516.9m-580kc) "Ruddigore."                    |         |          |         |
| 8                                                  | 7       | 6        | 5       |
| WLW (422.3m-710kc) Ford and Glenn.                 |         |          |         |
| WMAK (265.3m-1130kc) Johns-Manville Military band. |         |          |         |
| 8:30                                               | 7:30    | 6:30     | 5:30    |
| KPRC (299.8m-1000kc) Houstonians.                  |         |          |         |
| WHA (535.4m-560kc) Wood Wind ensemble.             |         |          |         |
| 8:40                                               | 7:40    | 6:40     | 5:40    |
| WGBF (236m-1270kc) Gospel trio.                    |         |          |         |

| Eastern                                                  | Central | Mountain | Pacific |
|----------------------------------------------------------|---------|----------|---------|
| 9:10 p. m.                                               | 8:10    | 7:10     | 6:10    |
| WRVA (256.3m-1170kc) Mrs. Perle Davis Mar-tis, artists.  |         |          |         |
| 9:30                                                     | 8:30    | 7:30     | 6:30    |
| KFAB (340.7m-880kc) "Mike" Kopac from piano-land.        |         |          |         |
| KPRC (299.8m-1000kc) "Il Trovatore," fourth act.         |         |          |         |
| WHAD (275.1m-1090kc) Atlas quartet.                      |         |          |         |
| 9:45                                                     | 8:45    | 7:45     | 6:45    |
| WHAZ (379.5m-790kc) Penn-Rensselaer orches-tra.          |         |          |         |
| 10                                                       | 9       | 8        | 7       |
| KOIL (305.9m-980kc) play, "If I were King."              |         |          |         |
| KPRC (299.8m-1000kc) Severin Frank, artist pianist.      |         |          |         |
| WEAF (491.5m-610kc) "Cavalleria Rusticana," grand opera. |         |          |         |



**FORMICA KIT PANELS**

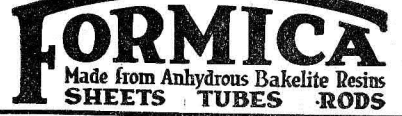
**FROM** one end of the country to the other, home set builders are producing handsome radio sets by the use of Veri Chromed Formica Panels for the leading kits.

These panels include the Karas Equamatic, Bremer Tully Power Six, H. F. L. Nine-In-Line Superheterodyne with sub panel, Victoreen single dial and two dial. There is also an Infradyne 7 x 28" and 7 x 30" Aerodyne, St. James 8 Tube, Bremer Tully Counterphase, Browning Drake National, Madison Moore Superheterodyne, Camfield Duoformer and two sizes of Best's Superheterodyne. They are sold by the leading jobbers and dealers.

*Special Panels cut to size and Formica Tubing are also available for Amateurs*

**The FORMICA INSULATION COMPANY**  
 4616 Spring Grove Avenue Cincinnati, Ohio

Hear the FORMICA Orchestra Tuesday 9 to 10 over WLW



Formica has a Complete Service on Insulating Material for Radio Manufacturers

*Pay only \$4.00*

# Get Real Radio Reception

## AERO-LOOP

[Knocked Down]

Is the famous loop-within-a-loop which gives such remarkable results. The rotating inner loop (patented) makes it the Sherlock Holmes of the Air. Completely constructed and boxed, the price is \$12.50 but now you can buy it knocked down with parts and material complete for only \$4.00 delivered anywhere in the United States. Then a short hour's work with screw-driver and pliers will give you the best loop you ever used.

Send Post Office or Express Money Order to  
**UTT-WILLIAMS**  
 ELECTRICAL PRODUCTS COMPANY  
 BOX 505, SANTA ANA, CALIFORNIA

## START NOW TO BUILD The Power-Six COUNTERPHASE

Gerald Best, superheterodyne authority, says: "It's one of the easiest circuits to wire of any I have seen." Easy to build, easy to balance—easy to operate—many letters attest its ability to get distance.

Redfield, Ark., Oct. 7, 1926.  
 "Last night, October 6th, at 8:45 P. M. I took off the aerial from my Counterphase-Six and without any loop or aerial I tuned in the following stations with enough volume that you could hear all over the house: WGHT, Detroit; KMOX, St. Louis; WEAQ, Columbus, O.; WHT, Chicago; WSM, Nashville, Tenn.; KPRC, Houston; WSWs, Chicago; KDKA, Pittsburgh; WOAI, San Antonio, and KFL, Los Angeles. I can't understand it."  
 Redfield Telephone Co.  
 W. W. Glasgow, Mgr.

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.

Essential parts available in a kit at all high-grade dealers. Price \$41.50. If your dealer cannot supply you we will ship prepaid on receipt of list price.

**BREMER-TULLY MFG. CO.**  
 520 So. Canal St. Chicago, Ill.

### B-Power Unit

Before you invest in a B-Power Unit it will pay you to investigate the Bremer-Tully Unit. There is no guesswork about voltages. There are no variable resistances — no knobs to turn. You simply plug in according to the number of tubes used and thereafter the correct voltage is delivered at the touch of the switch.  
 Capacity 150 volts at 60 mils.—  
 Price, complete, \$49.50.

### Detector Socket

The UX Detector Socket meets the need for a device to stop the howl caused by vibrating tube elements.  
 The tube is not spring suspended, but is supported by shock absorbing material. The additional side "snubbers" positively snub all vibrations. This model is used on the detector where the "microphonics" originate. Price UX Detector Socket, \$1.00.

The UX Absorber socket is the same except without the side snubbers. They protect the tubes from shocks and jars and permit quieter reception. Positive contacts. Price UXA Socket, \$0.75.



TUESDAY, FEBRUARY 8 Headliners

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 Tuesday, February 1, 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.

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 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.

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

MONDAY, FEBRUARY 14 Headliners

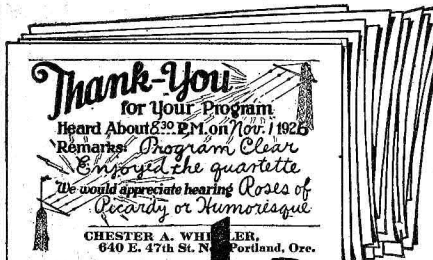
Table with 4 columns: Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, February 14.

(Continued on page 29)

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.

FREE LOG With First Order—and a special introductory half price for 100 cards—Send No Money Just pay postman when you get cards and FREE log.

GOLD WAVE AERIAL



Guaranteed to—

- 1 Give you stations not previously received. 2 Bring in greater distance. 3 Improve tone and selectivity or Your Money Back

We make these claims without reservation. This famous Gold Wave Aerial has been put to thousands of tests.

10 DAYS, TRIAL—SEND NO MONEY

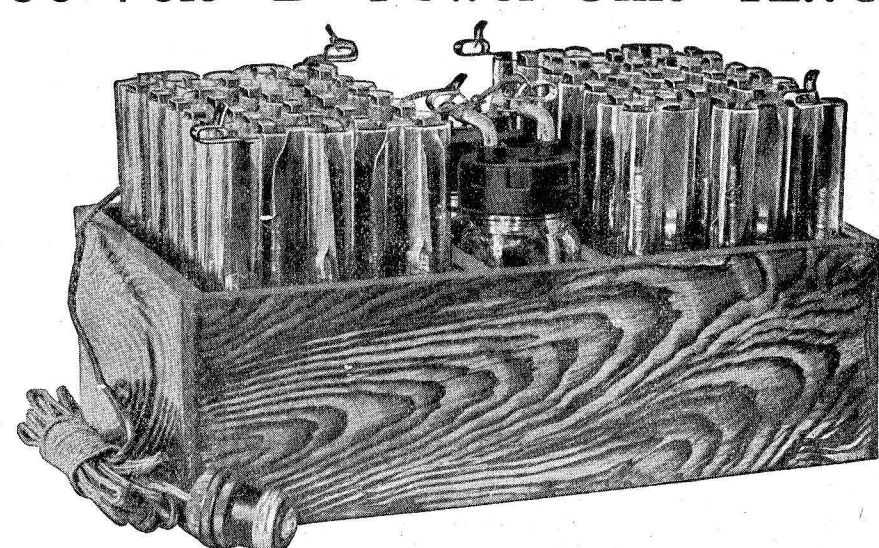
Get One at Your Dealer's or Mail Coupon

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Name Address

CARTER Parts as usual—used in B-T Power Six as in all other popular circuits. Any dealer can show you why. In Canada: Carter Radio Co., Limited, Toronto. CARTER RADIO CO. CHICAGO

90 Volt "B" Power Unit \$12.75



RUMOR 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 comprise this unit with its new ingenious hook-up and built-in charger, giving the utmost in B-Eliminator simplicity.

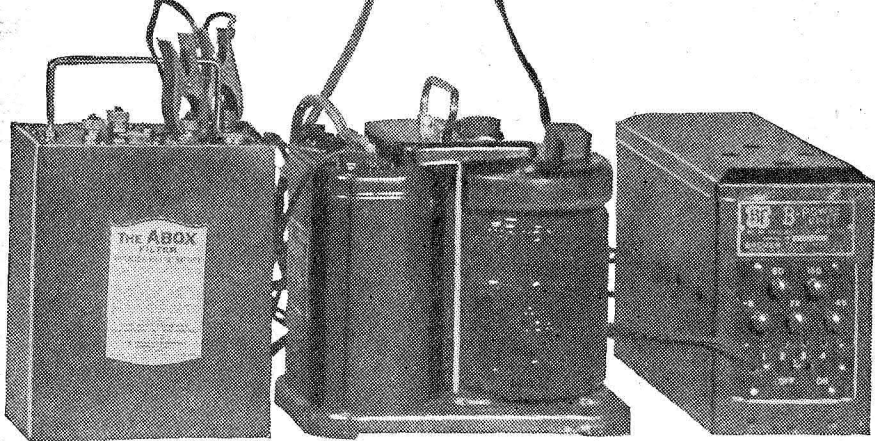
B. Hawley Smith, 325 Washington Ave., Danbury, Conn., U. S. A.

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. [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. Centralab logo.

## BREMER-TULLY'S NEW POWER SIX

By GEO. R. IVES  
Part II.

**B**EFORE 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,

ter circuit consists of a choke coil and two Andrews electrolytic condensers which operate on a new principle. To complete the filament current supply, a Balkite Model J charger, with a charging rate of 2½ 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!

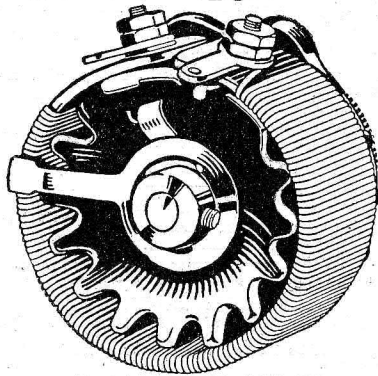
Through an error, the price of the 1 mfd. Sangamo bypass condenser was announced last issue in the Power-Six list of parts as \$0.80. This should have been \$1.25. Sorry!

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)

## FROST-RADIO



### FROST-RADIO

Type 800 Bakelite Rheostats are specified in the

### 1927 DE LUXE Super

THE most compact, handsomest rheostat you ever saw—and only 1½ 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—wonderfully smooth operation. No wonder these rheostats were selected for the remarkable 1927 DE LUXE Super! Your dealer can supply you with these rheostats in any desired resistance. List price: 75c. Potentiometers: \$1.00.

### Order These Other Parts

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

|           |                                                 |        |
|-----------|-------------------------------------------------|--------|
| 1 No. 895 | 500,000-ohm Variable Resistance Unit, List..... | \$1.25 |
| 1 No. 850 | 50-ohm Bakelite Rheostat, List.....             | .75    |
| 1 No. 820 | 20-ohm Bakelite Rheostat, List.....             | .75    |
| 2 No. 253 | Automatic Cord Tip Jacks, List.....             | .30    |
| 1 No. 951 | Double Circuit Gem-Jac, List.....               | .50    |
| 2 No. 698 | Push-Pull Switches, each, List.....             | .30    |
| 1 No. 824 | 400-ohm Bakelite Potentiometer, List.....       | 1.00   |

### Get These Folders FREE

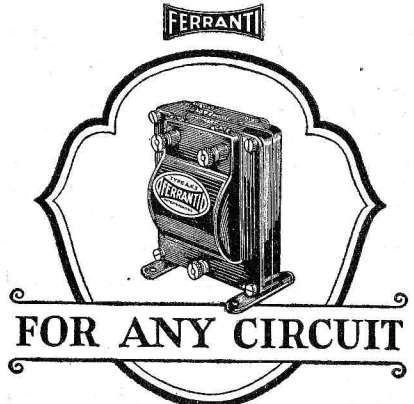
Would you like a set of Frost-Radio folders telling all about our Jacks, Rheostats, Potentiometers, Super Variable High Resistance Units, and other Frost-Radio Parts and Accessories? If so, just put your name and address in the coupon and mail to us. Get these interesting folders today.

### HERBERT H. FROST, INC.

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I'd like your free folders on Frost-Radio Jacks, Rheostats and Potentiometers, Super-Variable High Resistances, Parts and Accessories. Send all five of 'em along to my address below.

Name.....  
Address.....  
City..... State.....



## 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 Ferrantis will not better are those that already have Ferrantis.

### And this is why—

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 3½ to 1—\$12.

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

### FERRANTI, Inc.

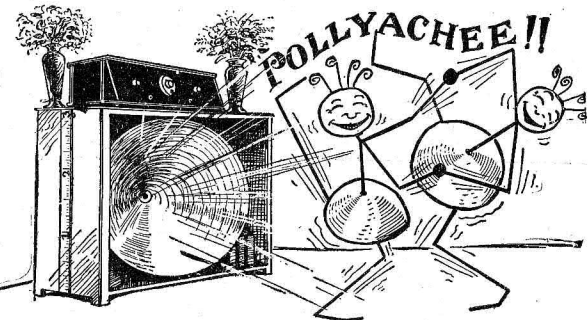
130 West 42nd St., New York, N. Y.

Ferranti, Ltd. Ferranti Elect., Ltd.  
Hollywood England 26 Noble Street Toronto, Canada

## 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 Fonotex for big cone, with brass apex, two Sepia Prints showing cabinet or stand construction for Cone or Roll Type speaker. All necessary instructions.

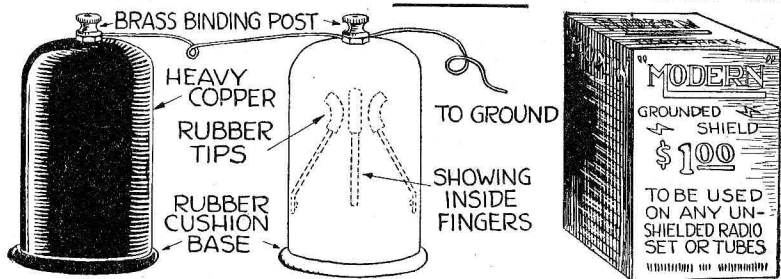
Buy this wonderful speaker under our absolute guarantee. Your money back if you are not convinced that it is the finest reproducing medium obtainable at any price. It works on any set, with ordinary tubes or with power output.

**Send No Money!** Write your name plainly in space indicated below, and complete kit will be forwarded to you. Just pay postman \$10.00 upon delivery.

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

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

## 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 \$1.00 each, none 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.



FRED W. STEIN

## Steinite

### AERIELIMINATOR

## Eliminates Outside Aerial

New principle does away with the troublesome outside antenna. Better, clearer reception, especially for summertime. 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 \$125. Loud Speaker Built 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—6-Tube Battery Set \$45. WRITE TODAY.



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

ORDER YOURS TODAY

**“1927 DELUXE” SUPER**

(Continued from page 11)

sion and is the English way of saying B+) and PLATE to the left; then put the second Ferranti on holes E, E, E and E with the same terminals to the left. The Thordarson output transformer goes on holes H, H, H and H, with P and B to the left. Put the binding posts in the holes across the back as follows, from left to right: —C, —C, +C—A, +A—B, +22, +45, +90, +180, and then the three LOOP posts. In the two 3/8-inch holes at the right edge, mount the loud speaker cord tip jacks.

Now place a 1 mfd. bypass condenser under hole C with terminals to the left, another under hole F and a third under hole J. The fourth goes under hole R with terminals forward. A 1/2 mfd. bypass goes under hole Q, which is about 1 1/2 inches to the left of hole P, and its terminals also go to the left. The St. James choke coil is secured under hole N. Now fasten in the intermediate strip. It will be found that the short lengths of wire previously soldered in will come very close to the socket terminals to which they are to be soldered. Place the midget condenser under hole L with stator plates and insulation strip to the rear.

**Front Panel Assembly**

It is always wise to mount the least easily damaged pieces of equipment first. You may have observed that this order was followed in the assembly of sub base. On the front panel, mount the potentiometer, with terminals down, behind the 1 1/2-inch hole at left end. The intermediate rheostat goes behind the 1 1/2-inch hole at right end. Considering the three holes across the bottom, put the Gem-Jac behind the hole to the left with terminals vertical, the 500,000-ohm variable resistance in the center hole, and a push-pull switch in the hole to the right. The second switch, with terminals vertical, goes in the hole just below the meter hole in center of panel. Now place the meter in its hole, being careful to get it set straight, and tighten the lock nut on the back of the case.

The last two items are the condensers. Revolve the plates so the rotors are in mesh and thus not easily damaged. Then mount with the stators pointing up and to the left. This will place one of the three sides of the end plates horizontal. Be sure this side is horizontal before locking the condensers, as the sub base must fit against the front panel just under this horizontal edge of each.

**HOOK-UP FOR 1927 DELUXE SUPER**

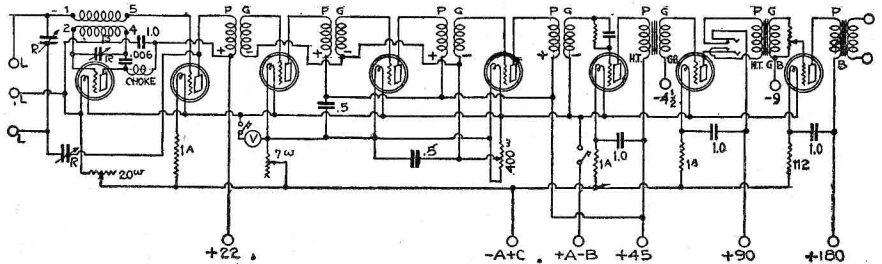


Figure 8—Complete Circuit Diagram for 1927 De Luxe Super

With the brackets now secure the sub base and front panel assemblies together. The under side of the sub base should now be 2 3/8 inches above lower edge of the front panel.

**Wiring the Whole Together**

While it is the usual practice to start wiring with the filament circuit, we are going to deviate from this to the seven short wires of the intermediate system. Connect the wire coming from G of the last transformer through hole aa to the forward terminal of the .00025 mfd. fixed condenser; that through bb to P terminal of socket 5; that through cc to G of socket 5; that through dd to P of socket 4, and that through ee to G of socket 4. Continuing across, connect that projecting through hole ff to P of socket 3, and that through gg to G of socket 3. This done, we can now wire the filaments.

**Plus Filament “Basic” Wire**

The plus filament wire of this set, as in many others, is the “key” or basic wire and will be connected first. From the +A—B binding post, drop a wire about 1 inch, then bend to the right about 2 inches until opposite the filament switch, and bend forward to the left terminal of the switch and solder.

Now, from the plus screw of socket 5, bend a wire that will go straight across to the right to plus screw of socket 1, then back about an inch over plus post of socket 8 and to the left to the plus post of socket 6. Where this wire passes under the plus terminals of the intervening sockets, scrape off the insulation and, with 3/8-inch lengths of bus bar, connect with the plus terminals of the sockets. You now have the plus terminals of the eight sockets connected to this wire. Where our long wire bends back over socket 1, solder a wire that goes forward

to the right post of the filament switch, and connect.

Going now to the negative filament circuit, run a wire from the rear terminal of the Amperite beside socket 6, across to the right over the rear terminals of the other two Amperites, around the 1 mfd. condenser at right end of sub base and forward to the front terminal of the 20-ohm rheostat. Continue upward through hole z to the outer or right terminal of the 6-ohm rheostat on the panel. Solder to both rheostat terminals mentioned and to rear post of each Amperite in rear row. From rear post of Amperite beside socket 7, run a 1-inch wire to the —A+C binding post just behind it. We must connect our remaining Amperite to this long wire, so another wire is connected to the left terminal of the Amperite behind socket 2, and bent around the bypass condenser to the right and then straight back to the long wire just put in.

**Completing Filament Circuit**

We must now connect the Amperites and rheostats to the tube sockets. The right end of the Amperite behind socket 2 is connected to the minus spring of that socket. The left terminal of the rheostat on the front panel is connected by dropping a wire through hole y, then to the left until just behind the 500,000-ohm variable resistor, then back and diagonally over to the minus post of socket 3. It then continues on over to the minus post of socket 5. Solder to the minus lugs on sockets 3, 4 and 5. From the rear lug of the 20-ohm rheostat mounted under sub base, run a wire back about 4 inches around the 1 mfd. condenser and to the left to the minus lug of socket 1.

This leaves the three Amperites and three sockets in the rear row. From the

minus lug of socket 6 connect a wire about 2 inches long extending to the right to the front terminal of the Amperite next to that socket. Do the same with socket 7 and its Amperite, and with socket 8 and its Amperite 112.

We have now completed the filament wiring of the set. The experienced builder who can follow the circuit diagram, figure 8, can complete the set with illustration 7 to help him. Those not so well versed in Radio can complete this remarkable receiver from the next issue of Radio Digest, in which the operation also will be described.

**“GOODY GOODY” GIRL**

(Continued from page 9)

hand upon the door-knob. Lois' voice halted him.

“Herbie,” she said in tones that had something in them no one ever had heard before. “Herbie.”

He lifted his head and stared at her. Something in her face brought him quickly across the room to her side.

“Herbie,” she said again. “Don't you go. Let Raymond go. It's you I love, not him. I know it now. He killed something inside me when he doubted me. You have made it live it again. You're a mar! Kiss me, Herbie.”

THE END

*Kept you guessing right up to the end, didn't it? You didn't think Herbie would be the lucky boy, did you? Now for the Green Mamba by Wyndham Martyn! It's a WOW! There are only two installments and this English-American author has had the experience to understand and feel the intense undercurrent that carries the reader through a maze of gilded vistas and pulsing heart-beats. You will get the first taste of this remarkable story of a jungle man and a millionaire's daughter in the mid-February issue of Radio Digest.*

**ADVANCE PROGRAMS**

(Continued from page 27)

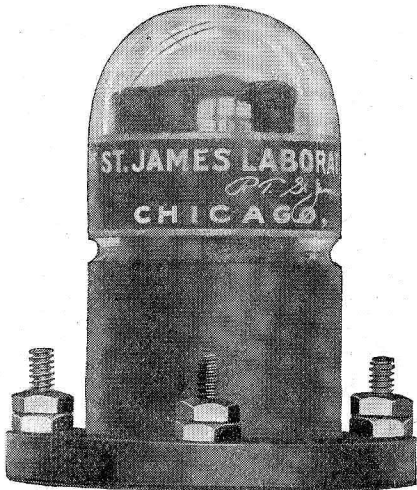
| Eastern              | Central                      | Mountain | Pacific |
|----------------------|------------------------------|----------|---------|
| 10:15 p.m.           | 9:15                         | 8:15     | 7:15    |
| WHAJ (275.1m-1090kc) | Art Gallery tour.            |          | 7:30    |
| 10:30                | 9:30                         | 8:30     |         |
| WBAP (475.9m-630kc)  | Grapevine Old Time Fiddlers. |          |         |
| 11:20                | 10:20                        | 9:20     | 8:20    |
| KTHS (374.8m-800kc)  | W. C. Brown, baritone.       |          |         |

“Regular Features” and “Silent Nights” are the same as for Monday, February 7, and will be found by referring back to that date.

The Heart of

**1927 DELUXE SUPER**

The St. James  
**TWO-FORTY**  
Super Parts



PAT. PEND.  
THE ST. JAMES  
INTERMEDIATE TRANSFORMER

Chosen for the 1927 DeLuxe Super because they represent the greatest advances in units of this type now made. An outstanding point of superiority is that no coils larger than one inch in diameter are used. These offer very small external fields to cause troublesome coupling effects and are more immune to static, local power noises and nearby transmitting stations.

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- (1) Resistance factor in windings has been decreased, permitting greater stability and higher amplification per stage.
- (2) Filter stage, with its filter condenser, has been eliminated so that no complicated adjustments are necessary.
- (3) Greater efficiency has been built into the windings and the elements are more ruggedly mounted.
- (4) Two hundred and forty kilocycle operation, which means less oscillator repeats and these occurring so they are not troublesome in tuning.
- (5) A completely coordinated functioning from the loop to the speaker.

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If your local dealer cannot supply you immediately, we will ship prepaid, 4 St. James transformers, 1 St. James oscillator, and 1 St. James choke coil on receipt of \$36.50. Around these parts you can build the finest receiver known to the Radio art at this time.

**The St. James Laboratories, Inc.**

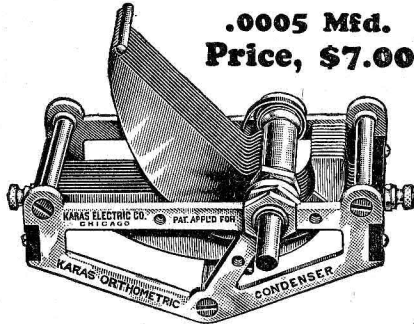
845 Washington Blvd., CHICAGO

SELECTED

FOR THE

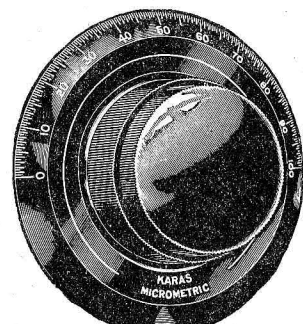
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.0005 Mfd.  
Price, \$7.00



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Variable Condensers**

were chosen for the new, powerful 1927 DE LUXE 8-Tube Super because they have the lowest losses of any condensers made—have absolutely straight frequency line characteristics—have no measurable resistance—and because they are the finest variable condensers on the market. Two .0005 mfd. Karas Orthometric Variable Condensers are specified in the list of DE LUXE parts. To insure best results be certain to use these marvelous condensers in building your super. Karas Orthometrics separate ALL adjoining wave-lengths by equal divisions on the dial. There is no crowding or bunching of stations. This results from the scientific eccentric form and position of Karas Orthometric rotor and stator plates. Karas Orthometrics are as finely made as a high grade watch. We use only the finest quality brass throughout in making these condensers. Plates and frame are die stamped and braced so as to give permanent, unvarying alignment. All stator and rotor plates are soldered at every point of contact. Body capacity effect is eliminated by grounded rotor plates and frame. Cone bearings give wonderfully smooth operation, and hard rubber dielectrics eliminate all absorption losses. To get BEST results from your DE LUXE Super be sure to use Karas Orthometric Variable Condensers. Your dealer has them or can get them for you. Price, .0005 mfd. capacity, each, \$7.00.



**Karas Micrometric  
Vernier Dials**

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Name.....  
Address.....  
City..... State.....  
(If cash accompanies order we will ship postpaid.)

**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**

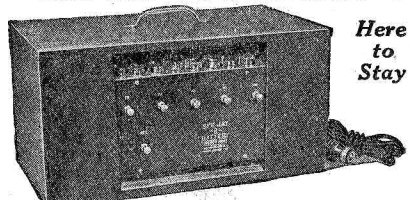
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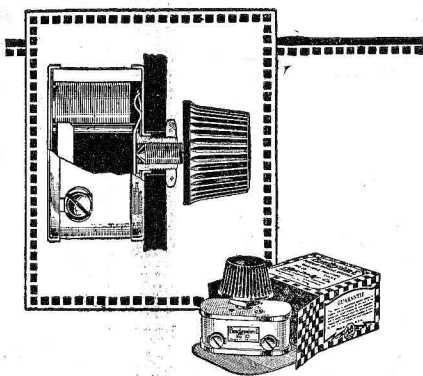
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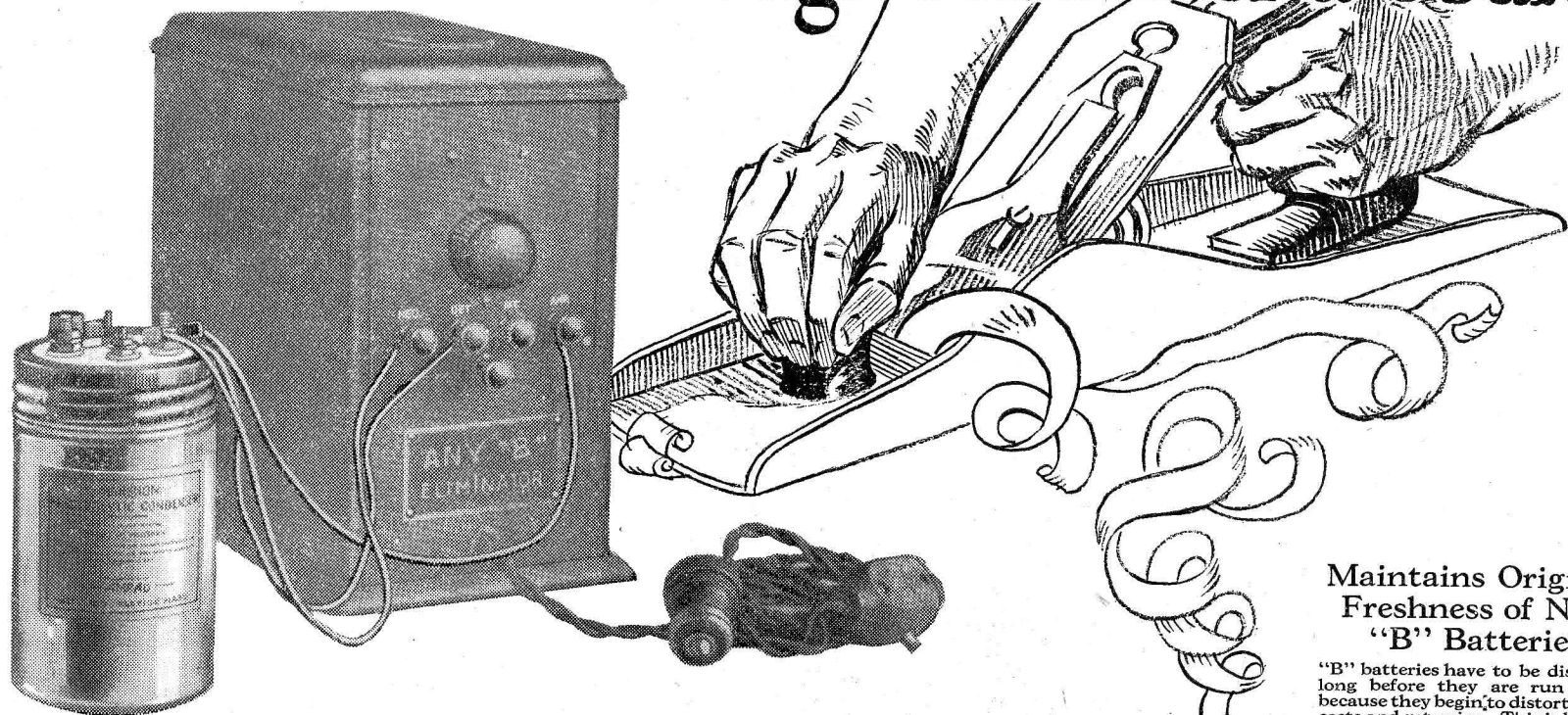
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smooth out tone through B eliminators as  
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To connect a Mershon is as simple as connecting a battery to your Receiver. Three lead wires are provided attached to the Mershon, the positives being colored 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.

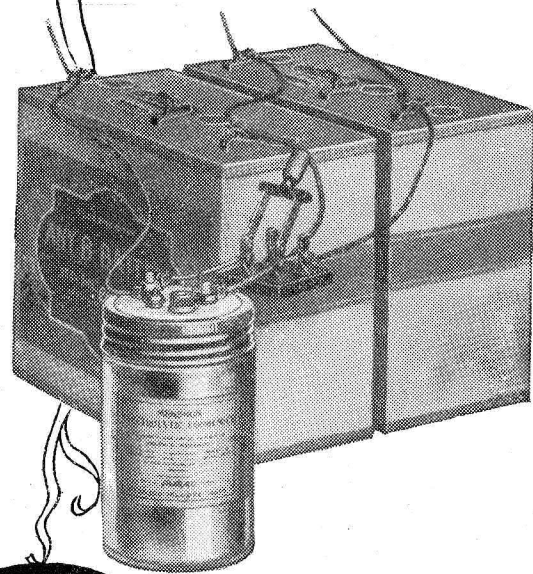
There are many other uses for Mershon condensers. Write Dept. 3B7 for descriptive folder.

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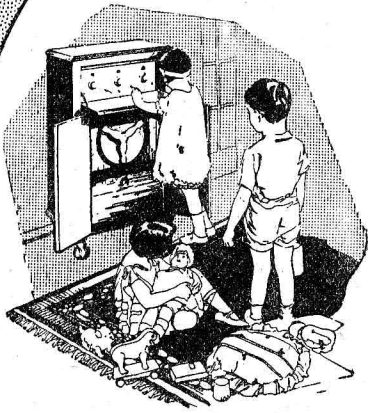
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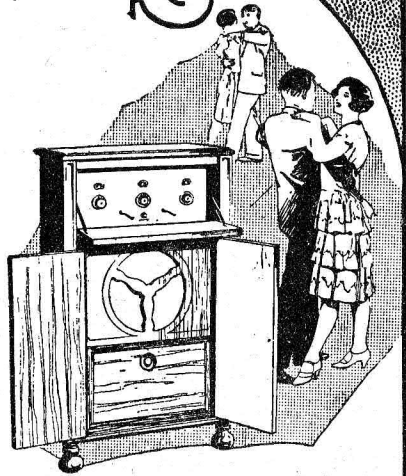


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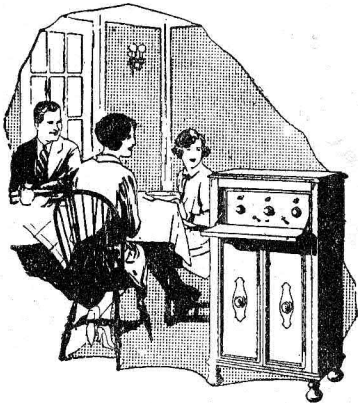
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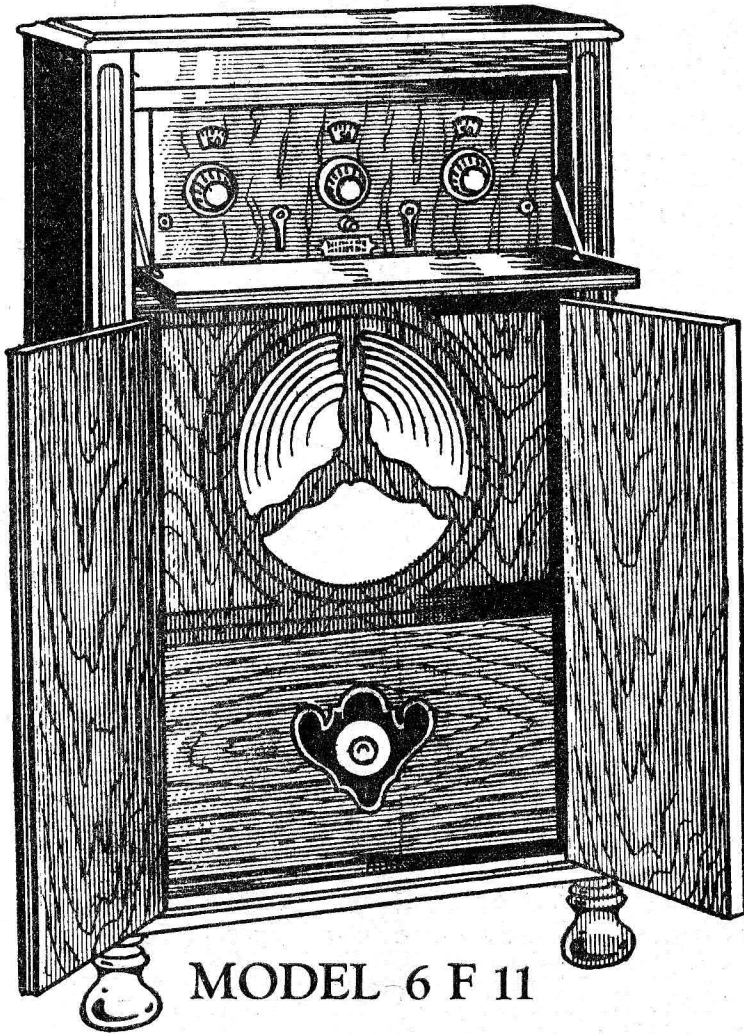


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metal Front and  
Sub-panel*

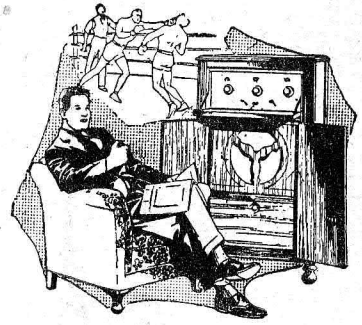


*Operates by Electricity  
if you prefer*

This new QUALITY set is so designed to operate from your light socket by installing the new Freshman "ABC" Power Supply.



MODEL 6 F 11



*Genuine R.C.A.  
Radiotrons*

are recommended for use with Freshman Masterpiece Receivers. A special package containing—1 UX 112 power tube, 1 UX 200A detector tube and 3 UX 201A amplifying tubes—matched and tested for the set in which they are shipped, is sold by Authorized Freshman Dealers.

## Makes Life More Pleasant

—it is massive—it is beautiful—an article of furniture you will be proud to own. This "masterpiece of masterpieces" surpasses all expectations—the most perfect radio ever designed.

—takes you on mysterious journeys; miles and miles—North, South, East and West; comfort and rest in your easy chair.

—the world's finest entertainment yours—opera, dance music, concerts, lectures, sports; just take your pick.

—easy to tune with its three distinct controls;—brings in the

stations wanted day after day at the same dial points—eliminates overlapping of wave lengths which assures distinct separation of one broadcasting station from all others.

—its tone quality makes it wonderful—the large cone-speaker has been designed to exactly match the new Freshman Receiver. This special cone-speaker easily handles the full power that the new set delivers.

—make life more pleasant—with a Freshman Masterpiece Radio.

Sold on Convenient Terms by Authorized Freshman Dealers

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