

erence Relief from Congress?

Radio Digest

TWICE
A MONTH

PROGRAMS
Illustrated

FIFTEEN
CENTS

SECOND DECEMBER NUMBER, 1926

Reg. U. S.
Off. &
Canada

Vol. XIX No. 5



Third Section of \$26,000 Whozit Game; How to Build "Regenatrol"; Farm Programs; Stations Listed by Location; How KFRU Broadcast Cupid; Mike Worries Movie Stars

MARCONI FORECASTS POWER ON AIR SOON

SEES DAY WHEN ELECTRICITY WILL BE TUNED IN

Noted Inventor Reviews Recent Developments in Radio Science—Cost Is Greatly Reduced

By A. C. Blackall
LONDON, England.—"It may be possible," Senator Guglielmo Marconi declared recently here at the annual James Forrest lecture at the Institute of Civil Engineers, "that some day electric waves will be used for the transmission of power over moderate distances."

The famous inventor of Radio telegraphy was reviewing the recent progress of the science of Radio. He continued: "That achievement will involve the perfection of devices for projecting the waves in parallel beams in such a manner as to minimize the dispersion and diffusion of energy into space. With regard to the theory of Radio, less is known than many people imagine. The laws and formulas announced and accepted several years ago, when applied in practice, make it necessary to employ very costly aerial systems and require such large amounts of power that only a very small margin of profit remains when this system of transmission is worked in competition with modern cable and land lines."

Here's Old Friend with Brand New Call 'WOW'

WOAW, Woodmen at Omaha, Acquire Significant Letters

OMAHA, NEB.—On December 15, 1926, the Woodmen of the World Life Insurance association's Radio station, formerly transmitting with the call WOAW, goes on the air with new call WOW, which is the official insignia of the Woodmen of the World.

When the station was granted its license to broadcast in 1923, the department of commerce was asked permission to use the WOW call, but at that time the Steamer Henry J. Bibble, operating on the Pacific Coast, was using this call. When the Radio apparatus was recently removed from this vessel, the department of commerce notified the Woodmen that they could employ these letters.

At about the same time the new call letters WOW are inaugurated, the Woodmen hope to have completed installation of new Western Electric transmitting equipment with a minimum power of 1,000 and a maximum of 2,500 watts. At the present time the station and studios are undergoing a complete reconstruction.

Million Members Easy For Post-KDKA Club

Distinctive Group Has Advantages Listeners Enjoy

PITTSBURGH.—The new Pittsburgh Post B. C. L. Radio club, envisioned by James W. H. Weir, Radio editor of the Post, bids fair to reach its goal of one million members. It isn't like just ordinary Radio clubs. This one meets via the air weekly through Station KDKA.

Helpful and interesting lectures, such as "The Uses of Wire in Radio," are broadcast in plain and understandable language, and are supplemented with printed data of engineering nature, circuit diagrams and suggestions which are mailed to all members free of charge for the asking. Such questions as are not answered by the printed matter are answered personally by Mr. Weir.

Non-members may have the printed matter and same service by including with each request ten cents in postage.

Saturday evening at 7:15, Eastern Standard time, is the regular meeting time. After each talk interesting Radio news and personal items regarding the members of the club, are broadcast.

JOHN CLARK, WSW, "FOUND" COVER GIRL

IT TAKES John Clark, announcer at WSW, Chicago, to pick 'em. And you will agree with this verdict after one glimpse at the beautiful maiden on the Radio Digest cover this issue. The little lady is Miss Hazel Blanche Carroll of Wheeling, W. Va. Miss Hazel came to Chicago to study at the Chicago Musical college and Mr. Clark, casting his eye about for talent for his beautiful Spanish studio in the Straus tower, discovered her. "If she can sing as good as she looks—" he mused. You know the rest, and the fans rave over her rendition of "Me Too."

New Broadcasters Should Be Assigned Short Waves to Develop, Says Crosley

Noted Radio Leader in Interview States Pioneers Must Be Protected Against Piracy—Newcomers Should Do Own Prospecting—Asks for Legislation with Power to Control

CINCINNATI.—Declaring that owners of new broadcasting stations should develop the great short-wave field, doing their own prospecting of the ether, and stating emphatically that pioneer broadcasters should be protected against piracy, Powel Crosley, Jr., prominent Radio manufacturer and owner of Station WLW here, said in a recent interview:

"The egg that fell from the wall in the oft-quoted Mother Goose rhyme; Humpty-Dumpty, presented no more serious job of unscrambling than the broadcasting stations that are all mixed up now in the bank of wave lengths between 200 and 600 meters. Some 600 broadcasting stations are now overlapping or on top of one another, wrestling and struggling for a place free from interference in a band that can accommodate less than one hundred stations."

Legislation Serious Problem
"Of course, the most serious problem is legislation through which there will be established some authority to control the wave length assignment of these stations and to police the air in such a way that its use will be most beneficial to the public."

"Congress will, no doubt, frown upon any idea that will give special rights to any individual broadcasters. The courts, however, will, no doubt, regard the matter differently, as they should. Property rights will most certainly be recognized by the courts. The rights of priority of pioneer broadcasters will certainly be recognized by the courts, just as the rights of the prospector and the inventor have always been respected under the common law."

"It should be obvious to any one that the pioneers who invested their money to develop broadcasting should have very definite rights to the wave lengths that they have made valuable. Now that the value of these wave lengths is established, it seems unfair that anyone else should destroy the value of this investment through causing interference."

"The question then arises, what shall be done with the new broadcasters? While

it seems logical that they should be deprived of the right to interfere, a way should be devised whereby they can broadcast even though it is necessary to put them in the position of the pioneer broadcasters when they started.

"There are thousands of wave lengths available for broadcasting below 200 meters (above 1500 kilocycles). These wave lengths are practically entirely undeveloped. They are perhaps even better suited for broadcasting than those wave lengths in the present band because it is a well-known fact that they enjoy less interference from static."

"It is true that today there are comparatively few homes equipped with apparatus to receive outside of the present wave bands of broadcasting; few receiving sets that will bring in the short wave stations, but is that not the same situation which existed some five years ago when the pioneer broadcasters commenced their work? Therefore, would it not be fair to insist that the newcomers undertake the same work that was done by the older broadcasters, that is, create a quality of broadcasting on the shorter waves that will in turn create a demand for receiving apparatus to bring in those short waves?"

How Privilege Should Be Regulated
"In deciding what stations are to be transferred from the present band of broadcasting to the new band of shorter waves, two elements should be very carefully considered. First, that which has already been mentioned, priority, which should be considered very carefully in connection with a second element, the service that is being rendered. A station, in order to maintain its prior right to a wave length, should maintain its place in the development of Radio, for it would be unfair to the public interest to reserve a wave for an older station on a basis of priority alone, unless that station continued to develop and maintain the service."

"Whether broadcasting is regulated by the department of commerce or handled (Continued on page 15)

SHOK

By

Jack Smith, the "Whispering Baritone"; Little Joe Warner; May and June or Rae and Lee; Don Malin; Introducing Natalie Suzanne Arnoux; Freeman Talbot Visits Us; Isbell's Picture Unappreciated; Silver Masked Tenor Almost Discovered.

"O H, if I could only see with my ears!" writes F. J. of Boston. The same sentiment is echoed in a letter from Miss M. E. H. of East High Gate, Vt.

I think that is where the Radio artist has a stronger hold on the fan than the moving picture artist. With the latter the direct personal contact is lost. The Radio artist lives and breathes himself or herself directly and simultaneously into the consciousness of the listener. This is obvious from the many letters I receive from impressionable young folks, curious young married folks, middle aged folks and kindly old folks. Going back to M. E. H. who is interested in a number of "favorites" I give here a picture of Jack Smith, the "Whispering Baritone." And, my dear, you should see the letter that came with the two line letter! It is signed by T. D. Kemp, "Personal Manager," who grants you this much to go with the thumb-nail portrait: Jack is 29, single and playing the B. F. Keith vaudeville emporiums. Eyes, hair, avoirdupois, favorite breakfast food and all that, you are supposed to make up from the picture—like the Whozits.



Little Joe Warner Stood in a corner

At W-C-P-L.

He thrust out his tongue

And comedly sung

.....(fill in your own last line)

At any rate Mary Ann of Kenosha wants to know all about him. Little Joe really is quite compact. I understand he stands on his toes on a foot stool

to reach the microphone; but that may be because the WCFM microphone is tall. Joe stands five feet three, net; has eyes of blue; three-one stamens and makes the scales bow at 145. He's a vet of the A. E. F. and broadcasts assorted dialects collected from the v. circuits. Sure he's married. Make it rhyme with "L." Mary.

"Sweet Sixteen" of Kansas City writes "It certainly was nice of Radio Digest to put in so much about my favorite Radiostar, Jack Little, but I wish you would put in a picture of the lucky Mrs. Little." It just can't be done, "Sweet 16," I asked Jack about it when he came into Chicago for Thanksgiving and he said, "Why, so far as I know my wife NEVER had a picture taken in all her life and she wouldn't stand for it—so what can I do?" And that's this. He goes to KTBS, Hot Springs, Ark from here.

As for "May" and "June" being the same as "Rae" and "Lee" at the WLS Chicago station, they are quite the same, quite the same.

While we are in WLS I will answer Betty of Valparaiso who wants to know all about Don Malin, the musical director. Don is tall and dark with hazel eyes that sometimes shine when he is pleased with a musical presentation. He is a graduate of Ames and was brought to WLS by Samuel R. Guard. He formerly was a writer for farm magazines and has made a special study of assembling musical programs in a coordinated idea. Yes, Betty, he has a nice little wife to whom he is entirely devoted. No, the man who conducts the Show Boat on its journeys from town to town is Edgar Bill. Am s'prised you didn't know that.



Christmas will be particularly merry at KTBS, Hot Springs, Arkansas, this year. There'll be a little Christmas tree just so-o high. And there'll be a little we stocking just so-o-o big. And, well for the benefit of those who may not have yet heard and who would be quite interested, Natalie Suzanne Arnoux, the only child of G. C. Arnoux, the most genial announcer, will be just three months and four days old. I composed a verse about the little dear but the folks in the office laughed at it and so you shan't have it. You can blame them for it (or else thank them for it). Merry Christmas, Suzanne, even if it is a little early. Our Mr. Gurney who is back from a visit to your daddy tells me you are wonderful.

No wonder KOA is such a popular station. I saw the great, big handsome direct. (Continued on page 13)

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Radio Digest, Illustrated, Volume XIX, Number 5, published Chicago, Illinois, December 15, 1926. 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 5, 1926, at the post office at Chicago, Illinois, under the Act of March 3, 1923. Title Reg. U. S. Patent Office and Dominion of Canada. Copyright 1926 by Radio Digest Publishing Co. All rights reserved.

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Looking Ahead

All Aboard the Fourth Section of Whozits Next Issue. It will be on the newsstands on a date hard to forget, January 1.

Peppy Readers' Views Concerning Many Subjects, especially that of "wave jumping," will appear next issue. Read those this number. What do you think? "The Reader's View" is an open forum. The best letters are published.

Assembling, Wiring and Operating Regenatrol is the concluding article of Mr. Calcaterra scheduled for the First January number.

COMING—What the National Survey of Interference Shows. This material, based upon the tabulation of the survey blanks, will appear soon providing relief is not given immediately by Congress. Watch for this!

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 included. All manuscripts are sent at owner's risk.

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INTERFERENCE IS UP TO CONGRESS

OPPORTUNITY TO WIN WHOZIT PRIZES GOOD

\$26,000 AWAITS FANS WHO PAY CLOSE ATTENTION

Late Comers Can Begin Now—All Questions Answered—Whozit Clubs Have Great Fun

(Whozits on Pages 8, 9 and 11)

Turning over the pages to our famous gallery of Whozits, Radio Digest swings into the third game of the series of eight with this issue.

Are you a fan? Have you followed the game? Are you going after one of the big prizes?

It's all up to you. There are \$26,000 in prizes. Your opportunity to win is just as good as the other fellows. All you need is a copy of Radio Digest, a pencil, a pair of scissors or a sharp knife and a bit of paste, a fairly good pair of eyes and a natural capacity to do a little thinking.

Still Time to Begin

The game of Whozit is under way but it is not too late to begin. The other two games were presented with the November 15 and December 1 issues of Radio Digest. The rules of the game are published in detail on page 15 of this issue. Also you will find a special program listing of the twenty-four broadcasting stations that are playing Whozit below on this page.

Each of these stations will have \$1,000 in prizes for the listeners who make the highest scores; \$500 gold, first prize, \$300 merchandise value, second prize and \$200 merchandise value, third prize. Two grand prizes of \$1,000 in gold each will be presented to the Whoziteers who make the highest scores in America.

All Questions Answered

North, south, east and west Radio fans are writing in to the stations and to Radio Digest for answers to conditions that they do not understand. "How can we play where stations are blurred out by the wave jumpers?" "When does such and such a station go on the air with Whozit?" "Do we have to actually hear the stations that we intend to match for the prizes?" "Can you send back numbers of Radio Digest?" And so it goes. Letters and cards by the bagful, Radio Digest, of this magazine through the station, is taking care of every inquiry.

Back numbers? Yes, so long as they last. But there remains but a limited supply. Newsdealers, sold out by the excessive demand have telegraphed their orders and doubled their supplies of copies.

Chances to Win Still Good

But let no one imagine that the chances are all gone. Jump right into the game with this issue. Tune in your nearest Whozit station and follow the hints thrown out by the broadcast announcers. Make this third game a perfect one. There may be an opportunity later on to make up the first and second game.

Have you tried out the Fortnightly Whozit Club idea yet? We have several letters from fans who have brought in some of their neighbors and social acquaintances to bring to the Whozit descriptions. Each member of the club rated to be the first one through with the proper identifications.

Whozit Stations Have Great Fun

Pat Barnes of WHT made a hit with his WHT Whozit club. Al Carney played the organ while the Great Whozit marched around the room to his throne. Then the two candidates were put through a grilling that provided plenty of information to the listeners as to who they were and what they looked like in the Whozits.

Other stations also have put on the M. E. O. W.—"Mysterious Ensemble of Whozits"—with success. Some had a goat with a tinkling bell. The goat would ride the candidates for a fall and sometimes "broke through the fences" to the sound of splintering timbers.

Get into the Whozit game right away, and if you have had any unique experiences, write to the Whozit Editor of Radio Digest, 510 N. Dearborn st., Chicago, and tell about them.

Whozit Correction!

On page 11 of the first December Radio Digest a typographical error transposed the lines of type underneath the second and the fourth panels.

The second panel should have read: Charlotte Myers, WJR; Big Sister, KVOO; Mary Tudor, WJR and Grace McConnell, WJAX. The fourth panel should have read: Cecile Barron, KJR; Hazel Reisinger, KVOO; Eva Rautenberg, WMAK and Helen Rauh, WHT.

HUBBY MORE LIKELY WAS "FIXING" HANDS

CLEVELAND.—Many humorous phone calls are received at WHK here; but a recent telephone call by a lady listener wins hands down. This particular lady requested WHK to broadcast a message to her husband, who was supposedly fixing a friend's Radio set. The wife thought he was playing poker, and asked the broadcasting of the message as a test of her feminine intuition.

HERE'S 'NOTHER PREFERRED BLONDE



Charlie Wellman, manager of KFWB, seems to prefer blondes. Recently we published the picture of a very pretty blonde, Peggy Mathews, and now we have here June Parker, sad blues singer, who sings exclusively at Warner Brothers' movie station in Hollywood, where women are women and men wear no hats.

MILLIONS OF LISTENERS LOOK FOR IMMEDIATE RADIO RELIEF

Congressmen Balk as Industry Prepares to Fight—Hoover Expresses Self—Interference Survey Aids—WGN Suit Breathes Optimism

WASHINGTON.—What will congress do to stop Radio interference? Now that the Sixty-Ninth Session has resumed its official duties, how long will it take to give broadcast listeners the relief they so badly need?

Factions working within the senate and house in opposite directions do not indicate that a speedy remedy will be granted, despite the suffering of millions of fans and stations whose high quality programs are being ruined by inferior broadcasters. One thing is certain. Unless congress does act—and quickly—it will have the wrath of countless listeners upon it, and millions of fan complaints may awaken the slumbering legislators.

Coordinating Committee Busy

The coordinating committee of the Radio industry, recently established here, and composed of representatives from every branch of Radio, is busily engaged in assembling facts for congress to mull over. The National Survey of Radio Interference, conducted by Radio Digest, is one of the huge masses of facts this committee is preparing to deliver to the congressional conference committee on Radio.

Aided by several hundred broadcasting stations and daily newspapers, the interference survey has brought forth thousands of intelligent complaints which will be very useful in showing how bad the situation is, and what is wanted by the public.

Hoover Expresses Self on Two Bills
The Dill bill, which passed the senate, and the White bill, which passed the house last spring, clash in most respects. Secretary of Commerce Hoover has expressed himself as opposed to the Dill Radio Control bill except insofar as the preamble goes, which he favors. He thinks better of the White Radio Control bill, but is not satisfied at all with either.

The independent Radio industry favors the Dill bill.

Mr. Hoover also now feels that Congress should make some provisions in the legislation to protect the investments of the pioneering broadcasters of the country. He believes that priority, when supported by continued service and development of the art, should have consideration.

Common Law Is WGN Suit Basis

The recent victory of Station WGN in the Illinois circuit court was not based upon any federal or state legislation, but purely common law. Judge Wilson's decision, however, if it is followed by the higher courts and in other jurisdictions, means that stations with efficient established services may protect themselves and their listeners against unreasonable disturbance by stations in the same locality and subsequent in time.

"First come first served" is good law as well as a good adage, Judge Wilson points out. His decision may go a long way toward establishing property rights and priority rights in wave channels, despite what congress may decide to write into future, if any, Radio legislation.

National Survey Tabulation Continues

The National Survey of Radio Interference tabulation is not yet ready for publication. Thousands of questionnaire blanks are still being returned by tardy listeners. Radio clubs, trade associations, Radio dealers, broadcasting stations, newspapers and other organizations wishing to distribute the "kick" questionnaire to their friends or patrons, may obtain any number of the blank forms free of charge by writing Radio Digest, 510 N. Dearborn St., Chicago.

Listeners who have not filled one of these interference questionnaires are urged to do so without a moment's delay. Request a blank free from Radio Digest, enclosing a stamped, self-addressed envelope.

Celebration to Mark Close of B. B. C. Ether Activities

LONDON.—At the end of December the British Broadcasting company hands over its activities to the new corporation, and it is intended to make the final week's broadcast something in the nature of a swan song, particularly on New Year's Eve.

A special version of Humperdinck's famous opera "Hansel and Gretel" will be one of the special program items.

WHOZIT SCHEDULE DECEMBER 15-31

Eastern	Central	Mountain	Pacific	Eastern	Central	Mountain	Pacific
12 n.	11	10	9	9:30 p.m.	8:30	7:30	6:30
WHT (399.8) Daily except Sundays.	WMAK (265.6) Daily.			CKY (384.4) Monday, Wednesday.	WHB (365.6) Tuesday, Thursday.		
6:50 p.m. 5:50		4:50	3:50	10	9	8	7
WOAW (526) Daily.				WHK (272.6) Mondays, Wednesdays.	WSOE (245.9) Monday.		
7	6	5	4	10:15	9:15	8:15	7:15
WOC (483.6) Daily.				WMAK (265.6) Daily.			
7:15	6:15	5:15	4:15	7:30	6:30	5:30	4:30
WMAK (265.6) Daily.				WMAK (265.6) Daily.			
7:30	6:30	5:30	4:30	7:30	6:30	5:30	4:30
WHK (272.6) Fridays.	WMCA (340.2) Fridays, Saturday.			WMC (499.7) Thursday.			
7:50	6:50	5:50	4:50	11	10	9	8
WJAX (336.9) Daily except Thursdays.				KMOX (280.2) Daily.	KTHS (374.8) Daily.	WHT (399.8) Daily except Monday.	WLV (422.3) Daily except Friday.
8	7	6	5	11:30	10:30	9:30	8:30
KVOO (374.8) Daily except Sundays.	WHT (399.8) Daily ex Sun., Mon.			WMAK (265.6) Tuesday.			
WHT (399.8) Daily ex Sun., Mon.	WMCA (340.7) Wednesday, Sunday.			12 m.	11	10	9
8:30	7:30	6:30	5:30	12:05 a.m.	11:05	10:05	9:05
WPG (299.8) December 20 and 27.				WHT (399.8) Daily except Monday.	WJR (516.9) Saturday.		
8:45	7:45	6:45	5:45	12:05 a.m.	11:05	10:05	9:05
WHB (365.6) Mon., Wed., Fri.				WHT (399.8) Daily except Monday.			
9	8	7	6	12	11	10	9
CKY (384.4) Thursday, Saturday.	KPRC (296.9) Daily except Friday.			WHT (399.8) Daily except Monday.			
WHT (399.8) Daily except Monday.	WJR (516.9) Monday, Wednesday.			WHT (399.8) Daily except Monday.			
WPG (299.8) December 17 and 24.	WSM (282.8) Mon., Wed., Fri., Sat.			1:15	12:15	11:15	10:15
9:15	8:15	7:15	6:15	1:15	12:15	11:15	10:15
WNAC (431) Wednesdays.				KFWB (252) Daily.			

Cupid Scores 16 Hits At KFRU

LEVELS Broadside to Eight Waiting Swains Who Propose on Hearing Certain Song. Couples Go to Japan for Honeymoon.



"Good Bye, Boys, I'm Through," sang Miss Helen Averitt (above) at KFRU, Columbia, Mo., and before she sang "through" a scattered party of engineers, sitting by their sweethearts said "good bye" to bachelorhood by popping, Corner of Cupid Studio (lower right).

TIMES are changing. Romance keeps up-to-date. Cupid masquerades under the name of Mike and twangs antenna wires to speed his fatal darts. Many a matrimonial hook-up has been circuitized through a receiving set.

But here is the champion bull's-eye Radio romance of the year. It's a true story and comes from Columbia, Mo., Radio Station KFRU, belonging to the Stephens college. It is said to be the only broadcasting station in America controlled by a woman's college.

At one fell swoop Daniel H. Cupid let loose sixteen shafts through a song from the throat of Miss Helen Averitt and every shaft scored a perfect hit. The story is told by Miss Helen's sister, Margaret, who relayed it to Radio Digest.

"Dear me," wrote Miss Margaret, when requested for more specific details as to the names of the eight couples who were married, when and where and could she send pictures, "they've all gone to Japan now. We only knew Mr. Anderson, the foreman, who lived here in Columbia and arranged for the song. He explained it at the studio the night that the song was to go on the air. That's all there was to it. I'm sorry. Won't you write up our college station sometime, please?"

Gale H. Curtright (below) aided and abetted the Cupid conspiracy as announcer at KFRU. He warned the young engineers that the song was coming.



By MARGARET AVERITT

IN SEVEN widely separated American towns, seven young men were anxiously adjusting the dials of their Radio sets at 6:15 one evening in the late spring of 1926. All were tuning for a 500-meter wave length, for they were exceedingly desirous of hearing the dinner hour concert from Radiophone Station KFRU, Columbia, Mo. To most of the general Radio audience this program promised nothing particularly unusual but to these seven young men it was to be a very, very special occasion; for if a certain selection, a song, came over the air from KFRU on this particular program, the entire course of their lives would be changed.

Outside the dusk had already fallen, stars were twinkling brightly and the clear, frosty air indicated an ideal night for DX reception.

But while these young men are preparing for this auspicious occasion let us consider the incidents that took place a few months previously. These same young men with their foreman, Bob Anderson of Columbia, comprised a party of eight engineers engaged in a large construction project in South America. None of them were married, all were passably good looking and they were collectively and individually desperately homesick.

Each evening found them gathered about a highly efficient Radio receiving set. Usually they were able to pick up some station from the

States. It didn't matter much what they heard. They were quite satisfied just to hear a voice from home, sweet home.

Then came a day when they could see the end of their task close at hand. Soon they would be on their way home and then they would be scattered over the country only to be called together again shortly, in all probability, to go as a unit to undertake a similar project in Japan. It was a lonely prospect, months and probably years away from their homes and loved ones. Out of this gloomy contemplation one of the younger men suddenly conceived a brilliant idea.

"**W**E MISS the social atmosphere. We need home comforts. My suggestion is that we all start in as soon as we return and win a wife. Let's all get married and take our wives with us to Japan."

Audacious! Astounding! Some might say a little presumptuous. But finally the last doubter was won over to the idea, because—well, eight couples would make four bridge tables and you would need an even number of couples for little dance parties.

"But, suppose the deal shouldn't go through. Suppose we get engaged and some even go so far as to get married and the contract blows up, what then?" That question suddenly loomed up and remained unanswered for the time being because Anderson caught a signal—a voice on the 499.7 wave length—Miss Helen Averitt, soprano, and Mr. Gale H. Curtright, announcing.

"Good bye, boys, I'm through," the voice came to them clearly and distinctly. There wasn't a whisper until the whole program was finished. But immediately afterward Anderson exploded with the idea that had come to him during the song.

"How will we know what to do until we are sure of the contract? You heard that girl sing, didn't you? Well go right ahead and rush the girls up to the moment of proposing. I'll let you know the day I expect to get the answer and then you listen in for that girl to sing, 'Good Bye, Boys.' If you hear her sing that song at the agreed time you'll know it's O. K. to propose. If she doesn't sing it the scheme is off and you can take your time."

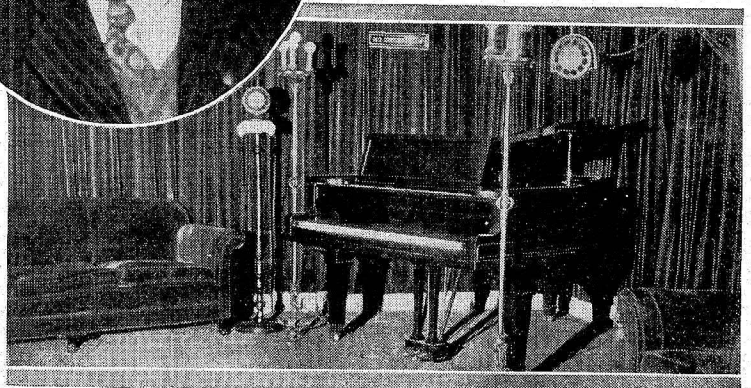
This was the plan eventually accepted by all.

AND so two months later we find them in the United States, and eager to hear a certain program from KFRU. They knew that the chief at his home in Columbia had received their orders that day. Each had his best girl listening with him, though the girls thought the song would merely signify that their engineer swains were ordered to Japan.

To these young people the dinner concert seemed very long that night, although it is only from 6:15 to 7:15. The soprano sang, obliged with an encore, and still they had not heard their song. The hour was nearly over and when at last only a few more minutes remained, the concluding number was announced. The seven engineers held their breaths while the announcer, trying hard to keep from chuckling, dedicated the next selection to "some engineers—and their sweethearts." And then, with a hint of laughter in her voice, for of course she was in on the secret, the soprano sang, "Good Bye, Boys, I'm Through."

So once more Cupid employed the mysterious electrical waves on which to launch his potent arrows—seven of them at once. But it has never been possible to ascertain how many of the young ladies accepted!

Even the guilty soprano, Miss Helen Averitt, does not know. However, some of you may go to Japan some day, and if you do, have one of the Tokio broadcasting stations put on a soprano solo, "Good Bye, Boys, I'm Through." Perhaps eight couples, playing four tables of bridge, may be listening. If they are, the truth may out and the success of this ultra modern form of courtship may be divulged to a waiting world.



Mike Worries Cinema Artists

*MANY FAMOUS
Screen Stars Fear Neither
Roaring Lions nor Wild Horses
Before Camera But Lose Nerve
in Broadcast Studios*



Ernest Torrence (above), made reputation as wild west terror in Covered Wagon, quails before Mike.



Lois Wilson (left) faltered and then wept first time she broadcast. Adolph Menjou (above) "kids" Mike without fear.

By G. L. KING

WHAT do the stars and personalities of shadowland actually think of Radio and Radio appearances? Do they appear at stations only under the spur of the publicity man, or do some of them actually enjoy broadcasting? Do they condemn Radio appearances as harmful, as do vaudeville artists and some stage celebrities, or, on the other hand, do they feel it helps them with the vast audiences who daily see them in black and white on the silver sheet but who never hear their voices?

To Hollywood and Los Angeles let us journey to find answers to our questions; to stations KFWB,

Conrad Nagle (below) fears not the wrath of a woman scorned, but spare you him Radio's tin ear.



An "airy jest" is Monte Blue's (above) idea of what to broadcast, while Irene Rich (right) breathes personality into Radio.

more one appears before the mike the better it gets to be. The dry wit of Louise Fazenda is always appreciated by KFVB fans and Patsy Ruth Miller, with her vivacious personality, makes practically the same impression via the microphone that she does before the eye of the camera.

Irene Rich has a very vibrant personality, rather mature and subdued, that shows up distinctly when she talks in confidence, as she seems to do in a Radio studio.

Lois Wilson claims to have had one of the most unusual first time (Continued on page 29)

Lew Cody (below) is a regular little brother to Mike and takes delight in initiating fellow artists.



KHJ, KFI, KFQZ and KMTR to find out what we want to know, for it is only natural the Los Angeles and Hollywood stations, being right in the movie producing center of the world, would be able to tell us more about the subject than any others.

Jack Holt, Paramount's male star, who is equally at home on a pony's back as the hero of a rip-snortin' "horse" picture or as the suave man of the world in evening clothes, expressed the thoughts of many players rather nicely when he said that he, in common with practically everyone else in the cinema colony in Hollywood was roped, tied and dragged before the microphone.

"It was a terrible experience for me," said Mr. Holt. "And the fact that no one will tell me what they heard me say that night leads me to believe I have many charitable friends. No more for mine—if I can help it."

Another experienced actor of parts on almost any kind of stage in any part of the world, Ernest Torrence, confesses he has never lost the feeling of strangeness whenever he faces the mike, although a brother Thespian, working on the same lot, scoffs at the idea of Radio fright. But what else could be expected of such a sophisticated person as Adolph Menjou! Despite his idea that talking for Radio is like a vacation Menjou is seldom seen motioning his expressive hands before the microphone.

A talk with Studio Director Charlie Wellman at KFVB revealed a lot of information on our questions. Warner Brothers' KFVB, as everyone should know, is the only Radio station in the world owned and operated by a large motion picture producing corporation. All the Warner stars have appeared many times before KFVB's microphone and are seasoned Radio troupers. Some of them didn't like it the first time but they have found the



Way Back in 1917

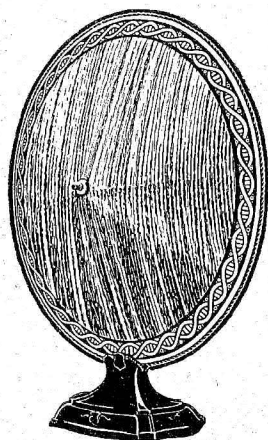
—long before the day of
radio in the home



SUCCESS always begins farther back than the public sees. As long ago as 1917, when radio in the home seemed but the fanciful dream of an imaginative few, the hands and mind of C. L. Farrand were feverishly at work developing the cone-type speaker. Then followed seven long years of experiment. Finally came perfection—and the birth of a new era in radio reception.

Today, many are endeavoring to imitate the Farrand Speaker, but have succeeded merely in copying its appearance. Its performance—acclaimed by over half a million nightly listeners—remains unchallenged.

The Eye may deceive, but the Ear never! Farrand made the first cone speaker Farrand still makes the first cone speaker!



The Farrand Senior (illustrated), with 17-inch walnut-laminated wood cone, is priced at . \$32.50.

The Farrand Junior, with 14-inch mottled cone, is priced at \$16.50.

Prices slightly higher west of Rockies

Farrand Speaker

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

\$29⁵⁰



Now-

you can have full "A" power for your radio

Automatically operated from
your electric light socket

THINK of it! Full "A" battery power—the kind that brings in the far-distant stations loud and clear—all the time!

You merely connect the new Prest-O-Lite Automatic "A" Power Unit to your set and push a plug into any electric light socket. That's all you do.

When you switch on your radio, the power of a fine, fully charged Prest-O-Lite Radio Storage Battery flows through your tubes. When you turn off your set, a silent, powerful trickle-charger automatically goes to work replenishing the current you have used. Your radio switch controls everything, which means that this unit can be operated any distance from your set—in the basement if desired.

No more bothersome charging or testing to determine condition of the battery. No longer will a rundown "A" battery limit you to local stations—or no stations at all.

See this new Trikl-Automatic "A" Power Unit at the Prest-O-Lite dealer's store. You will like the beautiful way it is finished. You will like its small, compact size. And above all you will be delighted with its simplicity of operation and the trouble-free radio it will give you.

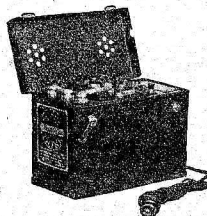
While this power unit is brand-new and the very last word in "A" power development, back of it is a company with more than twenty years of manufacturing experience. It is built to give you years of service.

There's a Prest-O-Lite dealer near you, or if you write us we will gladly send you full details of this new unit.

Radio and battery dealers should write at once for full information covering our selling plan. There will be an enormous demand for this unit.

THE PREST-O-LITE CO., Inc.
INDIANAPOLIS, IND.

New York San Francisco



The Battery. A special Prest-O-Lite Radio "A" Battery of ample capacity. Strongly built. Leak-proof.

The Charger. Built on an entirely new principle. Absolutely dry. Silent in operation. Adjustable to individual needs. Economical of house current. Nothing to get out of order. Nothing to replace. No moving parts, no bulbs, no liquid. Entirely automatic. Built to last for years.

The Unit. Entirely enclosed in handsome metal cabinet. Only 5¾ inches wide, eight inches high and eleven inches long. \$29.50.

Prest-O-Lite

TRI-KL-AUTOMATIC "A"
POWER UNIT

How to Build Bruno Regenatrol

BY THIS time you should have all the parts and be ready to go ahead with the actual testing of the apparatus to make sure that there are no defective parts and lay out and drill the panel and subpanel, preparatory to mounting the parts and wiring them together.

As a special service to readers who wish to build the set I have prepared full-sized blueprints which can be used as templates in laying out and drilling the panel and subpanel for mounting the parts. The use of these templates will greatly facilitate the laying out and drilling of the panel and subpanel and will eliminate the necessity for painstaking measurement of distances from hole to hole as is usually the case when no such templates are available.

Panel Templates Available Reasonably
Copies of these templates can be obtained by sending ten cents to cover actual cost of prints and mailing. Address your requests to Joseph Calcattera, care of Radio Digest, 510 N. Dearborn St., Chicago, and don't fail to mention that you want the Panel Drilling Templates for the Bruno Regenatrol Receiver.

It is unnecessary to reproduce the panel drilling templates in miniature here but I will give the detailed instructions for laying out and drilling the panels after you receive the full-sized panel-drilling templates.

The centers of the holes shown on the full-sized panel-drilling templates are for the parts mentioned in the list of parts given in the detailed instructions of this series. If you substitute any other parts you will find it necessary to locate the holes to conform to the mounting holes for your parts.

Marking Panels with Templates

All that is necessary to locate the holes on the panel and subpanel is to paste the respective templates on the panel and subpanel and spot or mark the location of the holes on the panels through the template. It is not necessary to spread paste all over the panels to hold them to the panel. A dab of paste in a few places will be sufficient. If you do not have any paste handy or if you do not want to get any paste on the panels you can cut around the template along the dotted lines leaving a space about a quarter of an inch between the edge of the panel lines and the template. Then fold over the template along the solid lines and this will serve to center the panel under the templates.

After you have lined up the panel with the edges of the template take a center-punch and "spot" or mark the centers of the holes as shown by the intersections of the crosslines, through the template and onto the panel. Mark the locations on both panel and subpanel before starting to drill.

Drilling Operations

When all the holes have been spotted, take a small drill, about size No. 41, and enlarge the spot holes. This is done to avoid shifting of the mark when the larger drills are used to drill the holes through. The spot mark is usually too small to center the larger drills.

In drilling the panel and subpanel, always back them up with a piece of wood to prevent chipping around the holes when the drill comes through on the other side. Drill all holes carefully, applying only a gradual pressure. Another good method to prevent chipping is to drill the holes all the way through first with a small drill, such as a No. 41, and then drill the larger holes halfway through from each side so that they meet at the center.

The next operation is to drill and countersink the holes spotted through the templates. The sizes of the holes mentioned below are those necessary for the parts mentioned in the list of parts. If you substitute other parts you must drill the proper size holes required for such parts.

Now proceed to drill each hole with a

PART II: Panel Drilling Instructions and Suggestions; Sizes of Drills to Employ; How to Test the Various Parts Before Assembly to Assure Successful Operation Later

By JOSEPH CALCATTERA

No. 18 drill. This size of drill serves as a good clearance hole for all 6-32 screws, and as a starter for the larger holes which can be enlarged later.

Sizes of Drills to Employ

All the holes marked "A" should next be drilled out with a No. 10 drill; the holes marked "B" with a 1/4-inch drill; the one marked "C" with a 5/16-inch drill; those marked "D" with a 3/8-inch drill; those marked "E" with a 7/16-inch drill; the one marked "F" with a 1/2-inch drill; and those marked "G" with a 1-inch panel cutter.

In cutting out the large 1-inch holes you will find it necessary to first drill a smaller hole for the pilot of the panel cutter.

You will notice that some holes have

visual part and if you perform these tests, you can build the receiver with the assurance that when it is completed, it will be sure to work. It is much easier to test the parts before assembling them into the receiver than it is to try and locate a defective part when they are all wired together.

A simple test apparatus can be rigged up by connecting a voltmeter in series with a B battery. The ordinary pocket voltmeter used to test B batteries will do. If you use the Jewell 135C tip jack voltmeter you can use the high voltage scale of this meter to advantage. Connecting the battery and voltmeter in series will leave two free ends or test points, one from the voltmeter and the other from the battery. These two leads are the ones

make sure that there is no break in any of the coils and to be sure that the coil ends are properly connected with the terminals.

Be sure to mount the coils as shown in the photographs, figures 3 and 4. This arrangement is made to permit the knob for the tickler coil to be placed near the bottom of the front panel, thus giving a better appearance to the front of the set.

The fixed coupler coil, placed at the other side of the condenser unit is provided with brackets that set the coil back from the panel enough to allow the Radiohm to be placed at a point such that the knob of the Radiohm makes a symmetrical arrangement with the knob of the tickler coil on the front of the panel. An extra rheostat knob to match the knob on the Radiohm should be provided for the tickler coil shaft.

Inspection of Sockets and Radiohm

Next disassemble the sockets and make sure that the spring members have not been bent out of shape.

Connect your test circuit across the terminals of the Radiohm to make sure that there is an even variation in resistance as you turn the knob, with no open circuit throughout the range of the instrument. Make a similar test on the rheostat.

Test across the terminals of the battery switches and check up to see that you have a closed circuit when the switch is in the "ON" position and an open circuit when it is in the "OFF" position. Such tests on simple apparatus may sound absurd but I have personally had experience with switches which have been short-circuited and were "ON" all the time.

Testing A.F. and R.F. Transformers

Next take the untuned radio frequency transformer and the audio transformers and test the windings to make sure that there is no open circuit in any of the windings. When testing across the terminals of the audio transformers you will get only a very slight deflection of the voltmeter needle when using a 23 1/2 or 45-volt B battery in your test circuit. This is due to the resistance of the wire used in the windings. The important point is that you get some deflection to show that the circuit is closed. The high resistance of the transformer windings makes it necessary to use a battery of at least 23 1/2 volts in the test circuit. If you use a small battery, such as a 4 1/2-volt C battery, you will not get a deflection.

After testing each of the windings, that is across the "P" and "B," and across the "G" and "F," to make sure that the windings are intact, test across the "B" and "P" to make sure that the two windings are not making contact. Also test between the "B" terminal and the case of the transformer to make sure that the case is not connected to either winding. Test across the terminals of the choke coil to be sure that the winding is intact.

Amperites and Other Parts

Next test across the terminals of the Amperites to see that there is no open circuit in any of them.

Next test across the terminals of all the fixed and Bypass condensers. There should be no deflection of the voltmeter needle in the tests on the fixed and Bypass condensers.

Test across the jack terminals to be sure that the terminals are not short-circuited.

Now to test the Multiplug. Insert the plug into its socket and then test between each wire terminal and the corresponding color terminal of the socket. This test will do two things. It will check the contact that is being made between the receptacles of the socket and the spring tips of the plug, and it will also check the wire connections so that you will be sure that the color code on the socket corresponds with that on the wires.

It will pay you not to take anything for granted but to make all the tests.

(Continued on page 29)

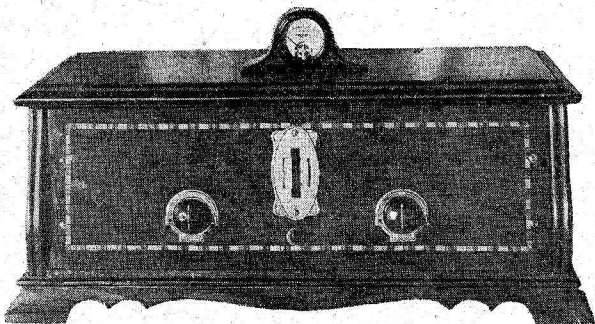


Figure 2. The completed Bruno Regenatrol, with its Lignole panel, Bruno dial, Corbett cabinet and Jewell meter, is indeed beautiful. For careful panel and subpanel drilling, send ten cents to Radio Digest for full-sized blueprint templates.

a solid line outer circle while others have a dotted-line outer circle. The circles indicate that holes so marked should be countersunk for 6-32 flat head or oval head screws. On the front panel, the holes shown with a dotted-line outer circle should be countersunk on the front side of the panel. On the subpanel, those shown with a solid line outer circle should be countersunk on the top side of the subpanel (the side on which they were spotted), while those shown with a dotted-line outer circle should be countersunk on the bottom side of the subpanel (the reverse side from that on which they were spotted).

Why Parts Are Tested

If you have followed directions carefully, the panel and subpanel will now be ready for the parts.

Regardless of the care that is taken by the manufacturers of the parts to make sure that they reach your hands in good condition, the handling which some of the parts receive in transportation sometimes injures them and renders them unsuitable for use in a receiver.

Write this chance is not great, you will find that it will pay you to test each part carefully before mounting it in the set and wiring it into the circuit. It takes only a very short time to test each indi-

which you can use to test across windings to discover any open circuits in windings or any closed circuits in condensers.

Testing and Mounting Bruno TK Unit

We will first take the Bruno TK unit. This unit comes assembled so that the secondary winding of each R.F. transformer is automatically connected across the terminals of its associated variable condenser, so that a test across the terminals of the variable condensers means nothing as the connection across the coils will show a closed circuit.

It is advisable, therefore, to disconnect the coil from across the condenser by loosening the connections at one end of the bracket, which mounts the coil to the condenser. This procedure is a little troublesome but it is worth while. Then connect the test circuit, consisting of the battery and voltmeter, across the condenser terminals and, turn the rotary plates of the condenser throughout its range.

If the voltmeter needle does not move from zero, it shows that there is no short across the plates and the condenser is suitable for use. If there should be a deflection, the plates of the condenser are shorted and should be adjusted before mounting the unit on the set. This test should be applied to each condenser. Then test across the terminals of each coil to

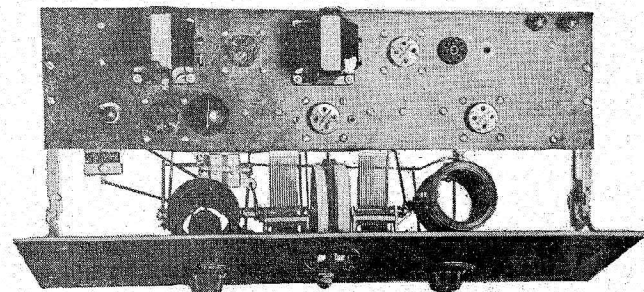


Figure 3. Looking down on the top of the assembled and completed Regenatrol. Note the relative positions of the various parts of the set.

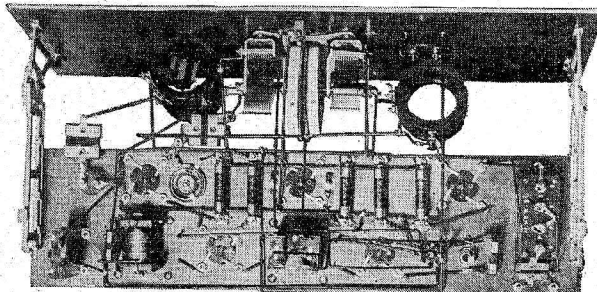
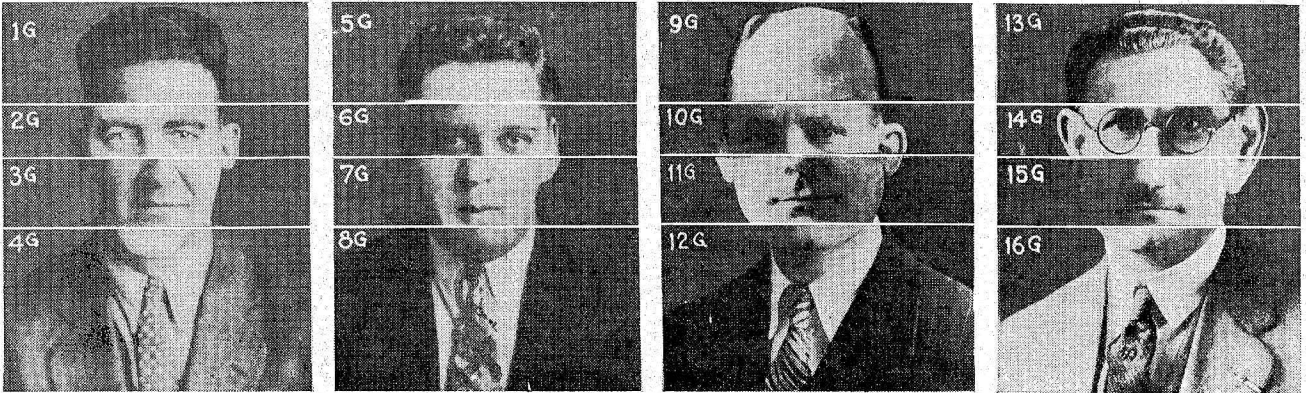
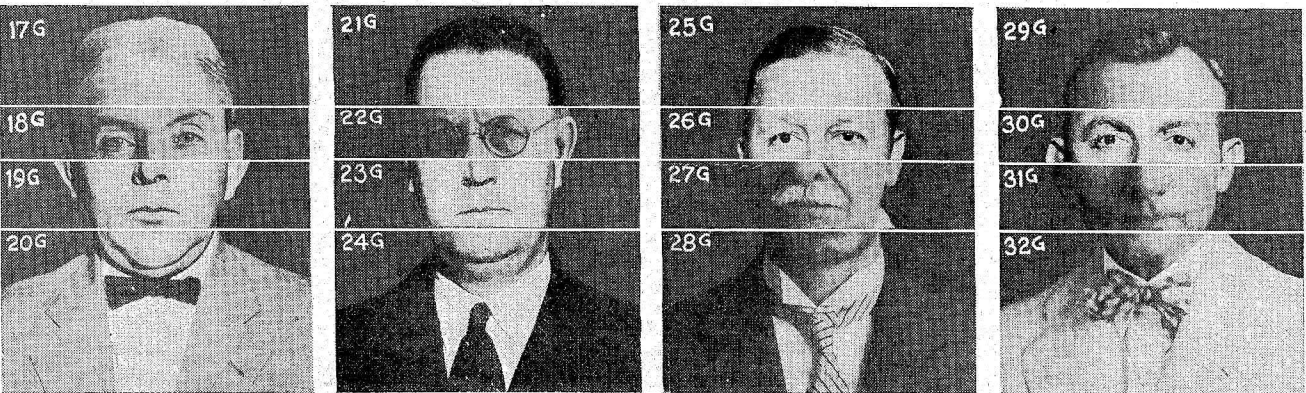


Figure 4. If the Regenatrol, as shown in figure 3, is turned upside down on a horizontal axis, this view of the bottom of the set is obtained.

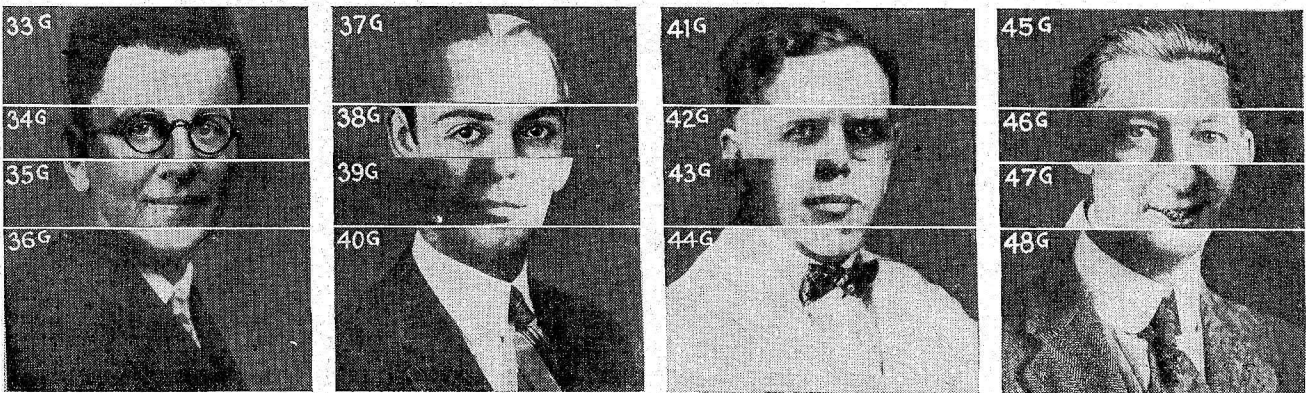
SOLVE WHOZITS AND WIN \$26,000 PRIZE AWARDS



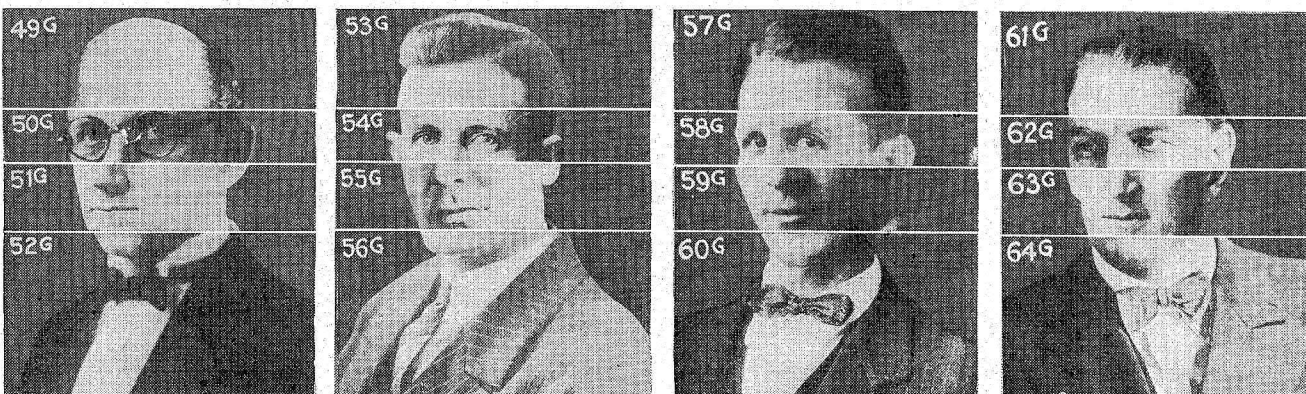
The following artists are in above panel: Bob McOsker, WOOD; Roy Clark, WOOD; "Dok" Eisenbourg, WNAC; John J. Fanning, WNAC.



The following artists are in above panel: C. C. Sowerby, KPRC; J. Harry Kobusch, KPRC; Evans Prosser, WPG; Dr. A. J. McClure, WPG.

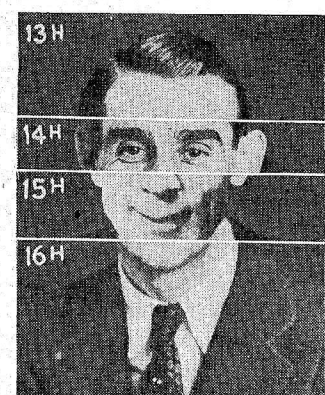
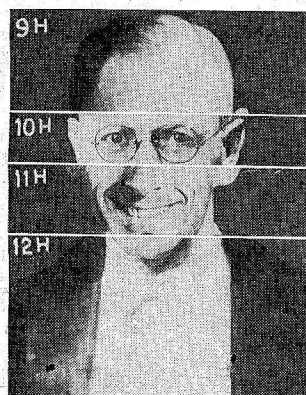
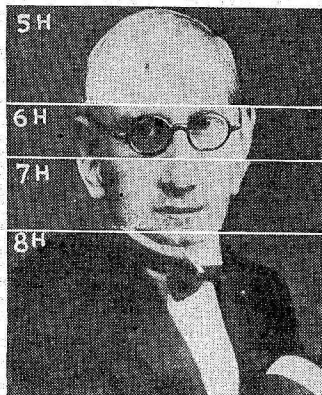


The following artists are in above panel: Ralph Freese, KOA; Freeman H. Talbot, KOA; Wally Allen, WMC; Harry O. Nichols, WMC.

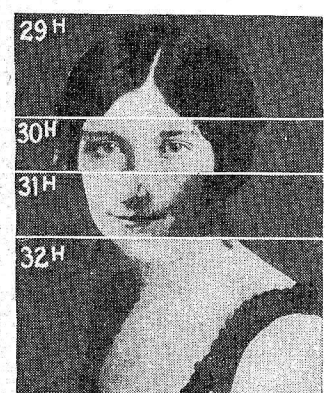
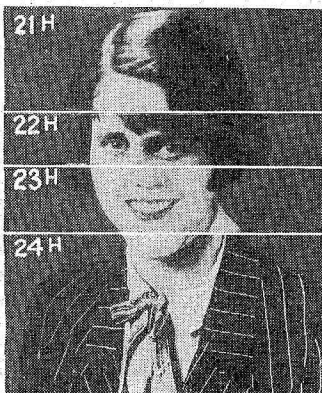
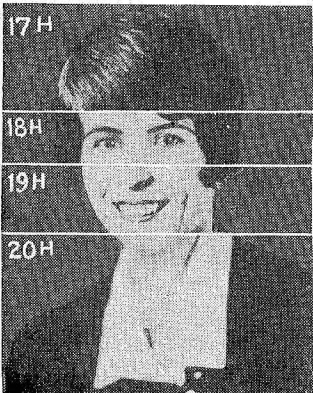


The following artists are in above panel: Jean Goldkette, WJR; Richard Rolph, WJR; Prof. Harry Evans, KVOO; Parson L. E. Lepper, KVOO.

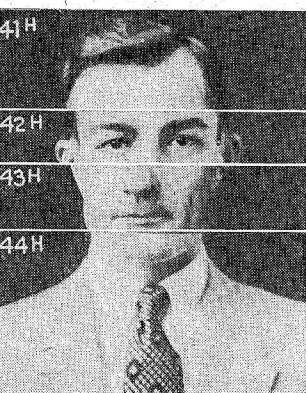
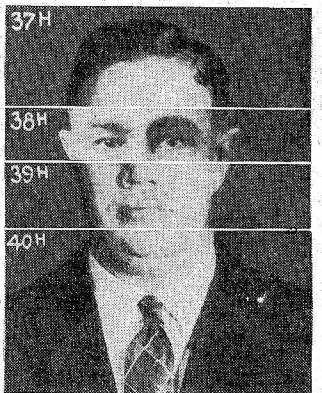
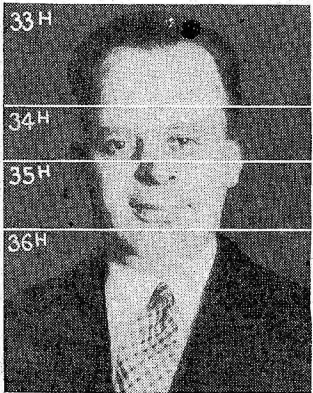
ASSEMBLE THESE PORTRAITS OF RADIO ARTISTS



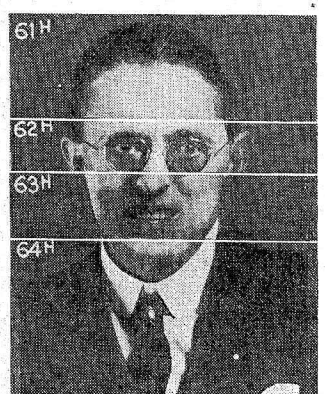
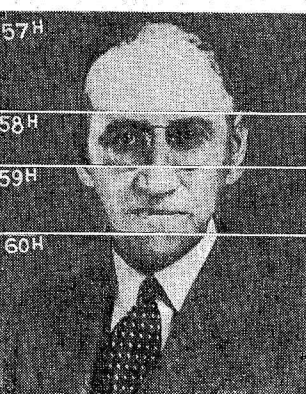
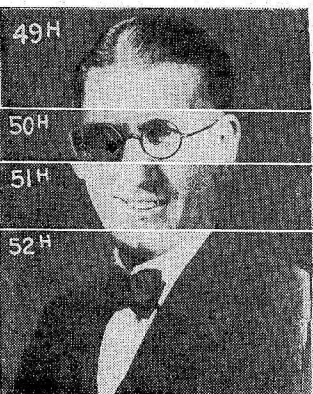
The following artists are in above panel: Herbert Sadler, CKY; Hugo Heyn, WOW (formerly WOAW); Axel Christensen, WHT; Billy Williams, WJAX.



The following artists are in above panel: Eleanor Gilmour, WHT; Anna Canova, WJAX; Grace Leidy Burger, WOW (formerly WOAW); Kathryn Baird, CKY.

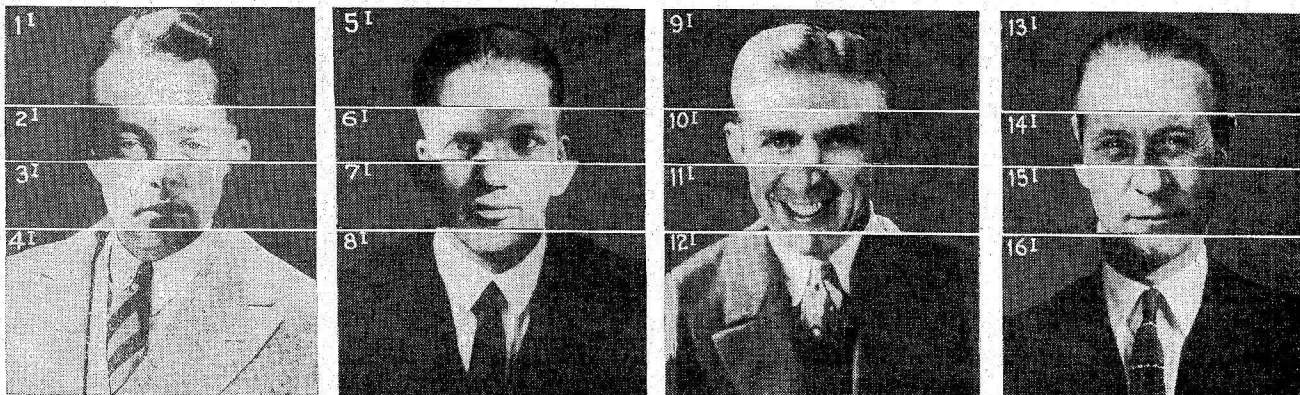


The following artists are in above panel: Ed Cody, WHK; Al O'Mara, WHK; John G. Heyn, KTBS; E. M. Matthew, KTBS.



The following artists are in above panel: Fred Smith, WLW; Tommy Reynolds, WLW; Edgar H. Twamley, WOC; E. John Richards, WOC.

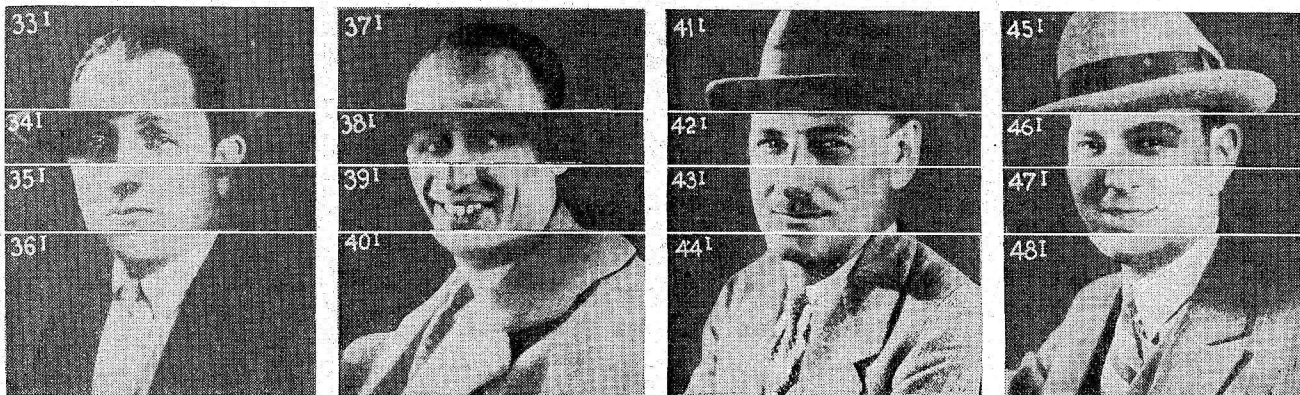
FASCINATING AND INSTRUCTIVE—THAT'S WHOZIT



The following artists are in above panel: Monte Blue, KFWB; Jack Keefe, WSM; Melvin Dix, KMOX; Elmer Ihre, WSOE.



The following artists are in above panel: Mrs. M. H. Goldschein, WSM; Mrs. Louis Warfield, WSOE; Jacquot Jules, KMOX; Patsy Ruth Miller, KFWB.



The following artists are in above panel: Al Hoffman, KJR; Harold Ramsey, WMAK; Roger Bower, WMCA; Sam Martin, WHB.



The following artists are in above panel: Dorothy Curry, WMAK; Jeanette Plotz, WMCA; Donna Taylor, WHB; Molly McNeill, KJR.

Radiophone Broadcasting Stations

Listed by States and Cities—Dec. 15, 1926

State, City, Call	State, City, Call	State, City, Call	State, City, Call	State, City, Call	State, City, Call					
Alabama: Alabama, WAPI Birmingham, WBRC, WKBC Gadsden, WJBW Montgomery, WIBZ	Kansas: Newburgh, WKBM New York (Continued) New York, W.A.K.C., W.B.B.C., W.D.B.R., W.B.W.V., W.B.R.S., W.E.A., W.P.C., W.F.R., W.G.B.S., W.H.A.P., W.H.N., W.I.J.G., W.L.V., W.K.T.O., W.L.D.E., W.L.V.L., W.M.C., W.M.S.G., W.N.Y.C., W.P.C.H., W.P.C., W.R.N.Y., W.S.D., W.T.R.C. Peekskill, WOKO Richmond Hill, WAHG, WBOO. WGMU Rochester, WABO, W.H.A.M., W.B.E.C. Schenectady, WGY Syracuse, WFBL Touhy, WOKN Troy, WIAZ Utica, WIBX Wood Haven, WIBV Woodside, WWRU	Washington (Continued): Pullman, KWBS Seattle, KFOA, KFOW, KGBS, KACL, KGOE, KJR, KOMO, KPS-1, KRBO, KRW, KZL Spokane, KFI, KFPY, KIQO Tacoma, KMO Walla Walla, KOOW Yakima, KFJO	Wisconsin: Beloit, WEBW Camp Lake, WCLO Eau Claire, WTAQ Fond du Lac, KFIZ Kenosha, WISN La Crosse, WKRH Madison, WIAA, WYBA Manitowish, WJOT Marshfield, WGBR Milwaukee, WGWB, WHAD, WKAP, WSOE Omnro, WJBE Poyette, WIBU Sisist, WBAR Stevens Point, WLBB Superior, WDRG West De Pere, WEBY	Hawaii: Honolulu, KGU	Canada (Continued): Thunderbolt, CFCR Toronto, CFCB, CHIC, CHNC, CIBC, CICE, CISC, CJC, CJKL, CJKM, CNRT Vancouver, CFCC, CFDC, CKCD, CKCF, CFSR Victoria, CFCI Winnipeg, CKY, CNRV	Porto Rico: San Juan, WKAQ	Canada: Bramford, CFCG Burlington Junction, CFCW Burnaby, CFCY, CJKC Calgary, CFAC, CFCN, CNRC Charlottetown, CFCY Cobalt, CKM Edmonton, CFCX, CJCA, CNRE Halifax, CHNS Hamilton, CHCS, CKOC Hantsville, CHCO Iroquois Falls, CFCB Kamloops, CFCJ Kingston, CFCM, CFCR London, CFCG Moncton, CNRA Montreal, CFCF, CHYC, CKAC, CNRA Moose Jaw, CJRM New Westminster, CFCX, CFCY Ottawa, CHXC, CKGO, CNRO Preseott, CFCJ Preston, Ont., CFCG Regina, CFCX, CKCR, CNRR Saskatoon, CFCQ, CHUC Scarboro, CJYC Sea Island, CJOR St. Hyacinthe, CKSH South Leithbridge, CJOC	Canada (Continued): Summerside, CHLC Thorold, CFCR Toronto, CFCB, CHIC, CHNC, CIBC, CICE, CISC, CJC, CJKL, CJKM, CNRT Vancouver, CFCC, CFDC, CKCD, CKCF, CFSR Victoria, CFCI Winnipeg, CKY, CNRV	Cuba: Camaguey, 6YR, 7AZ, 7BY, 7CN, 7DW, 7SR Sancti Spiritus, 6DV, 6EV, 6GR, 6GT, 6HS, 6JQ Colon, 5E Havana, PWN, OZL, IAZ, 2AB, 2BH, 2BY, 2CG, 2CN, 2EP, 2HP, 2H, 2L, 2LS, 2MG, 2MK, 2OK, 2OL, 2PS, 2PK, 2RM, 2RY, 2SZ, 2TW, 2UP, 2VW, 2X Manzanera, 8AZ, 8BY, 8FU, 8IR, 8JQ Tunueno, 6XJ, 6KW	Mexico: Chihuahua, CZF Mazatlan, CYR Mexico City, CAA, CYB, CYG, CYH, CYL, CTA, CYZ, CZA, CZE, XDA Monterrey, CYS Oaxaca, CUF

BOGUS LITTLE JACK LITTLE IS EXPOSED

THERE is only one Little Jack Little. Impostors, beware!

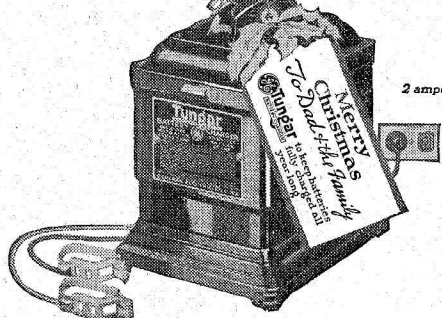
Bogus artists may sometimes fool a studio director but they never fool a listener. That is how Little Jack Little, traveling Radio artist, discovered that some strange person has been appropriating his name and peculiarly individual entitlements and mannerisms.

Listeners received from various points west signed by listeners stated a certain broadcaster and vaudeville performer had been introduced as "Little Jack Little," but when the voice came on the air it obviously belonged to "Somebody Else." The imitator even went so far as to use Jack Little's "trade mark," such as "Here

"Tis" and "Yours very truly, Little Jack Little."

"I understand from the letters," said Mr. Little in his letter to Radio Digest, "that this fellow is a Filipino or a Mexican and that he had a stringed orchestra with him. His throw-aways do not carry the name of Little Jack Little but when he was asked why he did not put the name in print, as he had been announced on the air, he said the circulars were misprints. As the Radio Digest reaches the most of the fans and all of the broadcasting stations I hope you will give this little matter notice so that no further frauds will be perpetrated in my name. The last point at which I have heard from this man is at Grata, Montana."

Denver broadcasting officials say that they believe the impostor has hid himself away to parts below the Rio Grande. At any rate, having learned that he has been discovered, he is gone.



Send your good wishes —and a Tungar too

- Two ampere—charges all 2, 4 or 6 volt "A" and 24 to 96 volt "B" batteries in series—and auto batteries, too.
- Five ampere—same range as two ampere but charges faster.
- Trickle—for continuous charging of small "A" batteries; for all 4 to 6 volt small sets.
- East of the Rockies:
2 ampere Tungar, \$18
5 ampere Tungar, \$28
Trickle Charger, \$12
(60 cycles—110 volts)

If he enjoys the radio—surprise him with a G-E Tungar. It will keep batteries fully charged; help him to obtain better reception. Through the years, its helpfulness will be a constant reminder of your greetings.

Two ampere, five ampere, or Trickle Charger—your dealer will show you the correct type for any service. They are all made by General Electric—they all can be permanently installed, and they all say "good-bye battery charging problem."

P. S. Treat yourself to one, too.



Tungar—a registered trademark—is found only on the genuine. Look for it on the name plate.

GENERAL ELECTRIC

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



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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. XIX December 15, 1926 No. 5

Good and Bad Ether Ads

OUR comments last issue on the subject of mismanaged broadcasting stations have been taken amiss by some broadcast advertisers and others who were contemplating using the ether waves as a means of creating good will. Evidently the similes were not made plain.

We wish to reiterate our statement, published many times previously, that good broadcast advertising is the most powerful good will builder and creator of future sales yet known to man. Please observe the word "good."

At the present time, direct sales messages and price list announcements are not considered the things to broadcast. The only accepted form of ether ads thus far accepted by the public are musical programs of high quality, be they classical or popular, travelogues, and instructive talks or lectures.

The musical program is simply labeled as sponsored by a certain concern or individual. The travelogues, talks and lectures may subtly, never abruptly suggest the employment of the services or products of the firm subsidizing such programs. When presented in this fashion, broadcast advertising has indeed a tremendous appeal, entering the home as an invited guest and obtaining the undivided attention of the listener.

As a matter of fact, many toll or commercial broadcasting stations are charging entirely too little for their time, based comparatively upon the good will possibilities of magazine and newspaper advertising.

And conversely, many commercial broadcasters charge entirely too much for their time when all they accomplish is cluttering up of the already congested ether with direct sales messages, and this sometimes at the cost of destroying high quality programs emanating from first-class stations on closely neighboring wave lengths.

WGES, WGN and The Public

OCUPYING first attention in many editorial columns during the past few weeks has been the WGN vs. WGES injunction suit. Judge Francis S. Wilson, of the Circuit Court of Cook County, Illinois, dissolving the preliminary injunction against WGES interfering with the broadcast programs of Station WGN, has ruled that "if the defendants (WGES) use a wave length in closer proximity than the one stated (one closer than fifty kilocycles of WGN) it must be at the risk of the defendants (WGES)."

That ruling, if it is followed through by suit for damages against WGES in the event that station does not stay far enough away from the pioneered and popularized wave channel of WGN, should do much to clear the air of the present congestion brought about by the lack of adequate federal legislation.

WGES maintains that selective sets in Chicago can separate the two stations satisfactorily even when WGES is but forty kilocycles away from WGN. What is meant by "selective sets" is a question. We grant that such sets are obtainable, but the average listener does not possess such a receiver.

After all, broadcasters should be so free from interference as to make their separation possible by the cheapest and most humble forms of Radio sets employed by persons not blessed or cursed with an abundance of wealth.

The Interference Survey

RADIO DIGEST thanks the many newspapers and broadcasting stations which have helped in its National Survey of Radio Interference. By the organized effort set forth many valuable data have been obtained which, when tabulated, not alone will aid official Washington in formulating a worth while Radio law, but will surprise many broadcasting stations which feel themselves such essential factors in the scheme of things.

When the tabulation is complete, nothing will be left unpublished. Stations which the public despises since their jumping activities have made them thorns in the ether, will find their names listed in the proper order, voted there by an indignant invisible audience.

RADIO INDI-GEST

"Peace on Earth Good Will Towards Men"

Let all the world with love give praise
Carols of the yule tide;
While chimes of all the churches ring
By every fireside.
The ethereal space out overhead
Is ringing with good cheer
Tune in then by your cozy hearth
To bring its comfort near.

"Peace on earth, good will towards men"
From all the stations sound;
Just sit at home, tune anywhere,
To hear where songs abound.
A privilege to live today—
With all these marvels here.
Making Christ and Christmas time
To every soul more dear.

RHEA SHELDON

A Note From the Tromboner

Hello, Indi: What's all this about deporting me? And having the Limers maltreat me in dear old Blighty? You should be ashamed of yourself, if such a thing is possible with a newspaper man.

Was in Chi last month. Ya gotta hand it to the Radio waves from the Wrigley building. It took me five minutes to find a loop hole in the traffic large enough to let me slip across Michigan boulevard. And said waves do it at 186,000 miles a second.

Stopped in at a cut rate Radio store and a city slicker wanted to sell me a condenser with alemite system. Just as if sewing machine oil didn't do the trick.

While admiring the Tribune Tower another slicker came up to me and wanted to sell me the exclusive rights to broadcast. Said he was Mr. Tribune himself. I didn't want to take him up on it because I had only \$397 with me and he wanted \$500. So he said it would be all right to leave the \$397 with him as first payment. He gave a receipt, so I guess I can't lose by that eh, Indi?

"Nother guy said to me, "Are you from Wisconsin, mister?" I said, "Yes." Then he told me he was an inventor and he had a scheme of keeping the lake level up by gathering in all the worn Radio waves after you got through using them on the Radio and putting them in Lake Michigan. I don't know if it will really work but he had an honest way about him so I let him have \$100 and he said he would never forget me.

Then there was Mr. And of Sears And Roebuck. He was very high toned. He told me that his concern was not going to issue any more catalogues but that they are going to broadcast them. He offered me the job of chief announcer at 60,000 a year per annum. I said I'd take it and gave him \$600 to show my good faith that I would be on the job when they started. Pretty soft, eh?

I sure cleaned up on my Chicago trip, all except some tubes I bought. A store had an ad, "Radio Tubes—while they last—10¢ a piece." I bought a dollar's worth and when I got them home they wouldn't light. So I wrote to the store and they wrote back and said you must of got them just as they were out. Hoping you are the same.

THE THIRD TROMBONE PLAYER

Oh, he had a way about him, did the third Trombone player.

Raucous voice of INDI: 'Sa pity he don't weigh more!

"NuRrie RimE%/? (Dam that period)

Hiz didle de diddel,
The Sheke PLAid a fiddel &—
And Hiz Cheba. suNg ov tHe Moon &—
Hit made tHe thurd Trombeoen grin;./
As he wipped offen his chin?/?
Too rede Whut MaRcellie rote ov tHe loon%/?
Younrs turle,
OLD KING TUTT.
Hiz-~~his~~ his self.

No, "Old King Tut" Did Not Violate Mr. Volstead's Act, before typing off the above. His only alibi is that his portable "Grona" was trying to keep up with the heterodynes, new stations, etc., oozing forth from his loud speaker as he attempted to concentrate on this masterful writing.

Whozit?

Who is it took away our beer,
And put a heavy tax on cheer?
Who said it surely is a sin,
To mix highballs with rye and gin?
Whozit?

Who is it said he picked up Mars,
And heard the rumbling of her motor cars?
Now wouldn't that wreck your Leyden jars,
And make you curse like Southampton Tars?
Whozit?

Whozit says he'll give a prize,
To those that have good cars and eyes?
Don't know his weight; don't know his size,
But he's one of the best of regular guys?
Whozit?

ARTHUR C. STOWELL

"Hoover Says Boom Year for All," sez the Chi Tribune. Whereupon we wish to comment before signing off. Yes, Yes, Herbert, we have indeed had a boom year, especially in Radio Broadcasting Circles, with which you are undoubtedly familiar. For instance, during 1926 we have added nearly a hundred new stations which are now bombastically booming forth and jamming up the air and wave lengths which were once upon a time 99-44/100ths per cent pure.

INDI.

Trying to Separate 'Em



Condensed

BY DIELECTRIC

While the sending of messages to remote parts of the world may carry little of interest to many in the Radio audience, there must be those to whom these personal messages from civilized communities to desolate centers carry a romantic tinge and something of pathos. Broadcasting from the studio of Station KDKA to various individuals in the frozen North was a feature of just such import upon a recent occasion. We who listened heard fathers addressed by members of their family in the comfortable surroundings of city life, while they were engaged in endeavors calculated to increase the scientific knowledge of mankind. Prefaced by remarks from the station's announcer to the effect that this represented the first attempt ever to reach so far north with broadcast messages, it left one with a vivid mental picture of the surroundings of the distant relatives of friends eager to receive these greetings. It was out of the ordinary.

It was humanly impossible to absorb all of the rich offering the new broadcasting company had in store for us on their inaugural night. Possibly the intent of those in charge of the program was to disclose to what extent cooperative effort could succeed in supplying the majority of American listeners with the very best talent obtainable. Possibly without a dissenting voice every tribute to Titta Ruffo would be sanctioned by the entire body of listeners. Here is a voice lending itself to the multitude of tone shadings necessary to a conveyance of human emotions, deftly managed by one of the greatest operatic singers of the generation. A voice capable of tremendous volume, when such is required, it could as easily register the veriest pianissimo without loss of that rich quality so notable in the singing of Enrico Caruso. Add to his work the playing of Harold Baur in Chopin's S sharp minor scherzo, the inimitable wit of Will Rogers and the New York Symphony orchestra, little was needed to make this an unforgettable program. The pity is that "Our Mary" could not have chosen numbers better suited and far more characteristic than she sang.

There remains, possibly will remain for some time, the habits of a strongly criticised procedure which turns many would be followers to stations without these practices. One of the most objectionable interludes in any program is that devoted to the reading of telegraphic messages, yet the practice continues unabated from some of the broadcasting stations marking their origin years back. WOS, Jefferson City, is an offender of the first water and seems to revel in the fact.

Another of those good organ recitals from Station WCCO, Minneapolis-St. Paul, came through very clearly to the enjoyment of all who heard. While the famous minuet in G of Beethoven sounds more familiar when played as a violin solo, the organist rendered it most acceptably. In fact, he was happy throughout the program.

Two other artists require mention for the excellence of their musical offerings: Moritz Rosenthal and Reinald Werrenrath; the latter of whom is the better known to the Radio public. In his offerings there was exemplified the heights to which artistic tendencies may carry one. Each number as he sang it was treated with due deference to its peculiar setting so that Danny Deever could not possibly have been placed in a setting identical with the aboriginal songs preceding. Mr. Rosenthal ranks among the topmost artists of his instrument and impresses equally with technical supremacy and interpretative insight. He should come to us again.

COMPLETE RULES OF GAME OF "WHOZIT"

1. Radio Digest will sponsor a national game to be called the game of Whozit, which will be participated in by the following radio broadcasting stations: WJZ, Chicago; WMCA, New York; WNAC, Boston; KJR, Seattle; WMAK, Buffalo; WKX, Cleveland; WPC, Atlantic City; WJW, Cincinnati; WT, Detroit; WOOD, Grand Rapids, Mich.; WSOE, Milwaukee; CKY, Winnsboro; WMC, Memphis; WSM, Nashville; KTHS, Hot Springs, Ark.; KMOX, St. Louis, Mo.; WOC, Davenport; WLB, Kansas City; WOW (formerly WOAN), Omaha; KDA, Denver; KFNB, Los Angeles; KFRC, Houston, Tex.; KVOO, Bristow, Okla.; WJAX, Jacksonville, Fla.

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

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

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

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

6. Conditions of the game: Beginning with the issue of November 15 and for eight consecutive issues Radio

CROSLY TELLS CURE

(Continued from page 2)

by a new Radio Commission created by congress, the agency which controls and directs broadcasting must have the power to actually control it. Legislation must, therefore, provide the necessary power to unscramble the present condition which borders on chaos; it must have the power to eliminate from the present band of broadcasting hundreds of the existing stations, prevent the further pirating of wave lengths and assign stations not entitled to wave lengths in the present band to waves in a new band to be created."

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

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

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

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

The Readers' View

Brickbat for Shenandoah

To me the most vital problem of this Survey of Radio Interference is the fact that the small stations of 1,000 watts and less can crowd up into the high wave lengths and interfere with the superpower stations.

For instance, in this part of the country, we have scarcely heard a concert from WJZ since KFNF and KMA, Shenandoah, Iowa, took a wave length only a few meters above WJZ. There could be

no comparison of the concerts from these two stations, as WJZ has the pick of the finest talent in the country. It would not be so bad if these small stations were on only a few hours of the day, but they are on continuously from early morning until late at night and it is most annoying to have to listen to old time fiddlers and farm talks when some very fine concert of real artists is being broadcast from New York.

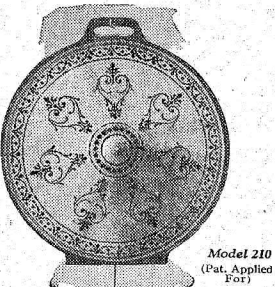
On a recent Tuesday night when the WEAF chain stations were broadcasting their very fine concert, KSO, Clarinda, Iowa, interfered to such an extent with WCCO, Minneapolis, that the New York Symphony orchestra was playing a duet with the "Haymow Five" of Clarinda.—J. P., Sioux City, Iowa.

Shenandoah Again

If the "gentleman" from KFNF only knew what the majority of people thought of him and his bag of wind, he certainly would let up a little. Radio in another three months for Northern Iowa will be utterly ruined unless some action is taken to put such unethical advertising out of business.

(Continued on page 28)

Windsor Wall or Table Type Cone Speaker Amazes Radio World



Model 210 (Pat. Applied For)

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



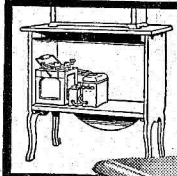
Model 210 22-Inch Cone Loudspeaker with sounding board and easel back. \$15.00 (West of Rockies, \$18) (Pat. Applied For)

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



(Pat. Applied For)

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



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

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



(Pat. Applied For)

Model 200 with 22-inch Cone Loudspeaker

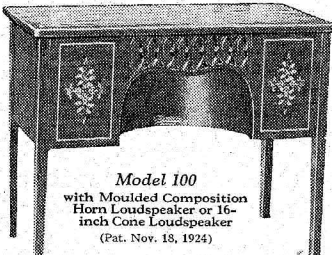
This Windsor Cone Loudspeaker Console is equipped with a 22-inch Windsor Cone Loudspeaker. Its top is 30 in. x 17 in., and is 29 in. high. The battery shelf provides ample space for batteries, charger, battery eliminator and other equipment. Beautifully finished in either Mahogany or Walnut.

Model 200

\$29

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

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



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

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

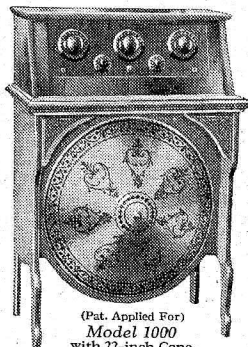
To the right is shown the newest Windsor Loudspeaker Console. It is equipped with a 22-inch Cone Loudspeaker and cabinet suitable for 7-in. radio panels up to 26 inches in length. Battery shelf provides ample space for all equipment. Beautifully finished in either Walnut or Mahogany. Price (without receiving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

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

Electrical Department

WINDSOR FURNITURE COMPANY

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



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

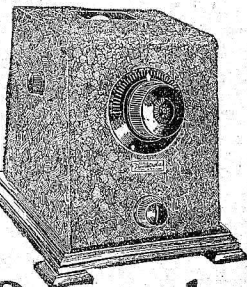
New Stations

New stations licensed by the department of commerce last month include: WBKN, Brooklyn, N. Y., 291.1m-1020kc; WJFZ, Chicago Heights, Ill., 419.3m-715kc; WSYR, Syracuse, N. Y., 352.7m-850kc; KXVI, Tacoma, Wash., 242.5m-1237kc; WDWWM, Newark, N. J., 280.2m-1070kc.

The following stations changed wave lengths: WCBR from 209.7m-1430kc to 234.2m-1280kc; WCWS, now WIOC, from 209.7m-1430kc to 232.4m-1290kc; KFIDY from 305.9m-930kc to 299.8m-1000kc; KFWM from 315.6m-950kc to 295.9m-990kc; WEDC from 422.3m-710kc to 249.9m-1200kc.

KFRC, San Francisco, Calif., has changed owners. Don Lee, Inc., takes the place of City of Paris Dry Goods Co.

This month brings two deletes, KFJC, Junction City, Kan., and WJEX, Ooster-ville, Mass.



Penetrator penetrates interference

Now you can cut through interference and double your stations with Penetrator, the proved radio "booster." Will improve any type set. Easily attached in a few minutes. Ask your dealer or write direct to Walbert Manufacturing Company, 911 Wrightwood Avenue, Chicago—makers of record-holding Isorad receiver.

PRICE \$35 Walbert Penetrator
Prices slightly higher West of Rockies and in Canada

S MERRY YULETIDE SEASON OPENS



nd Radio broadcasting certainly are a big gentlemen with so many friends among low he works nowadays, the above picture was broadcasting by direct wire through ant, holding the microphone, is Ji-Nip-Yak, rd on many stations, and will be heard on raining before Christmas. On the left is lar pianists of the Northwest who plays WCCO. A Mrs. Peterson, dramatic soprano, Wednesday of each month from KYW.

NCING

- Monday: 10:30, Kins; 11:50, Kins; 12:45, Kins; 2:10, Kins; 4:15, Kins; 6:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins; 1:30, Kins; 2:30, Kins; 3:30, Kins; 4:30, Kins; 5:30, Kins; 6:30, Kins; 7:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins.

- Tuesday: 10:30, Kins; 11:50, Kins; 12:45, Kins; 2:10, Kins; 4:15, Kins; 6:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins; 1:30, Kins; 2:30, Kins; 3:30, Kins; 4:30, Kins; 5:30, Kins; 6:30, Kins; 7:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins.

- Wednesday: 10:30, Kins; 11:50, Kins; 12:45, Kins; 2:10, Kins; 4:15, Kins; 6:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins; 1:30, Kins; 2:30, Kins; 3:30, Kins; 4:30, Kins; 5:30, Kins; 6:30, Kins; 7:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins.

- Thursday: 10:30, Kins; 11:50, Kins; 12:45, Kins; 2:10, Kins; 4:15, Kins; 6:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins; 1:30, Kins; 2:30, Kins; 3:30, Kins; 4:30, Kins; 5:30, Kins; 6:30, Kins; 7:30, Kins; 8:30, Kins; 9:30, Kins; 10:30, Kins; 11:30, Kins; 12:30, Kins.

WBLS Chicago, Ill. (302.8m-990kc) 7-7:10 p. m. Dinner concert, Drake concert ensemble; Blackstone string quintet; 7:10, Old Fashioned Almanac and the Million Sing; 7:22, Adventures of Oney Fred Sweet; 7:30, recital, Jimmy Coats, baritone, Edward Barry, pianist; 8: WEAP; 12:1 a. m. Frolic.

WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. Chicago theater organ; 8: Gus Edwards orchestra; 9 music; 9:23, WMAQ air line. WMBB Chicago, Ill. (249.5m-1200kc) 7-8:30 p. m. Piano duo; Bessie Beelman, contralto; Monte Blum, tenor; 8:30, orchestra artists.

WSDC Chicago, Ill. (288.3m-1040kc) 6:30-7:30 p. m. Dinner program; 9:30-11, New Jeffrey Tavern symphony. WSM Nashville, Tenn. (282.5m-1060kc) 6:45 p. m. Andrew Jackson hotel orchestra; 8, Vito and his Radio Club; 10, headliner.

Mountain Time Stations KOA Denver, Colo. (322.4m-830kc) 8 p. m. Scherzerman's Colorado orchestra; 8:15, studio program. Pacific Time Stations KFI Los Angeles, Calif. (467m-640kc) 7 p. m. Virginia hall room orchestra; 7:30, Nick Harris; 8:9, program, California Petroleum corp.; 9:10, semi-classical wood; 10-11, Sunset instrumental quartet.

THURSDAY, DECEMBER 16 Headliners

Table with columns: Eastern, Central, Mountain, Pacific. Lists radio programs and times for Thursday, December 16.

Table with columns: Eastern, Central, Mountain, Pacific. Lists radio programs and times for Thursday, December 23.

FARMER'S PROGRAM INDEX

Large table with columns: Eastern, Central, Mountain, Pacific. Lists farmer's programs, dinner concerts, special farm features, and headliners for Thursday, December 16 and 23.

Table with 4 columns: Station, Central, Mountain, Pacific. Includes stations like Eastern 9:45 p.m., WLAS 3:59-5m-700kc, KTHS 3:74-8m-800kc, etc.

Educational Features

Table with 4 columns: Station, Central, Mountain, Pacific. Includes educational programs like WOV 5:26m-570kc Literary period, WOL 5:30m-570kc Freighton educational period, etc.

Regular Saturday Features

Table with 4 columns: Station, Central, Mountain, Pacific. Lists regular Saturday programs such as CKAC Montreal, Que., Can., KDKA Pittsburgh, Pa., PWX Havana, Cuba, etc.

Table with 4 columns: Station, Central, Mountain, Pacific. Lists stations and programs from Philadelphia, Pa. to Buffalo, N.Y., including WLIT, WLNW, WMAK, etc.

Table with 4 columns: Station, Central, Mountain, Pacific. Lists stations and programs from Chicago, Ill. to Denver, Colo., including WENR, WGN, WJAZ, etc.

Table with 4 columns: Station, Central, Mountain, Pacific. Lists stations and programs from Los Angeles, Calif. to San Francisco, Calif., including KFI, KFMB, KGO, etc.

SUNDAY, DECEMBER 19

Table with 4 columns: Station, Central, Mountain, Pacific. Lists Sunday church services from various cities including Los Angeles, San Francisco, and Chicago.

Advertisement for Valley Electric Co. featuring 'The pioneer vibrator-type charger' and '5 ampere bulb type charger'. Text includes 'Use either one for a dependable source of "A" battery current' and 'YOU can get the famous Valley Battery Charger in both vibrator and bulb types.' Also includes 'VALLEY ELECTRIC CO., ST. LOUIS, MO.' and 'RADIO DIVISION'.

Advertisement for Chicago Radio Company featuring a 'Tube Set \$4.75'. Text includes 'Big Production Brings Big Reduction in the prices of this six tube chassis...' and 'CHICAGO RADIO COMPANY, 80 E. Jackson Blvd., CHICAGO, ILL.'.

Advertisement for 'ENSCO' speaker featuring 'WORLD'S FINEST LOUD SPEAKER Genuine "ENSCO" 3 FOOT CONE KIT ONLY \$10'. Includes an illustration of the speaker and text: 'MAKE YOUR OWN THREE FOOT CONE SPEAKER IN LESS THAN AN HOUR...' and 'Buy this wonderful speaker under our absolute guarantee...'.

Eastern Central Mountain Pacific
8:00 p. m. 8:00 7:00 8:45
WSJL (328.3m-700kc) North Presbyterian church.

SUNDAY, DECEMBER 19
Headliners

4:15 p. m. 3:15 2:15 1:15
WHAJL (373.1m-1090kc) Turnverein Little symphony.
5:30 4:30 3:30 2:30
WSJL (328.3m-700kc) Cantata. "The Righteous Branch."

SUNDAY, DECEMBER 26
Headliners

Eastern Central Mountain Pacific
8:30 p. m. 7:30 6:30 5:30
NPRC (299.8m-1000kc) Texan Theatre pipe organ.
WOS (440.9m-630kc) "The Messiah."

Regular Sunday Features

Eastern Time Stations
CFCA Toronto, Can. (356.9m-640kc) 11 a. m. services:

7 p. m., St. Paul's Anglican church; 8:45, musical program; 8:59, services.
CKRQ Montreal, Que., Can. (410.7m-730kc) Capitol Theater symphony.
KDKA Pittsburgh, Pa. (369.1m-870kc) 6:30 p. m. KDKA Little Symphony orchestra; 7:45, service;

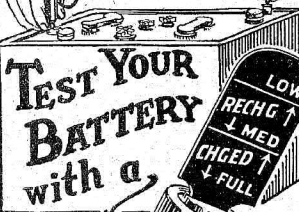
WJAX Jacksonville, Fla. (336.9m-890kc) 11 a. m. service; 8:59, services.
WJR Detroit, Mich. (516.9m-880kc) 10 a. m. First Baptist church; 10 p. m. special song service, First Baptist church.
WJZ New York, N. Y. (454.3m-660kc) 11 a. m. and 7 p. m. Park Avenue Baptist Church Cantillon; 7:20, Hotel Ambassador trio; 8, musicale; WJZ; 9, Hotel Commodore concert orchestra, WBZ, WGV; Godfrey Ludlow, violinist; 10:15, Maxwell House Coffee hour, WBZ, WRC, WGV, RJK&A.



SUNDAY, DECEMBER 26
Church Services

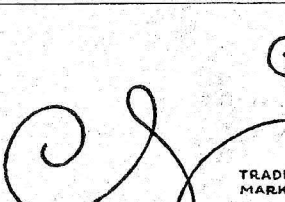
Eastern Central Mountain Pacific
11:45 a. m. 10:45 9:45 8:45
WLS (344.6m-870kc) U of Chicago church service.
1 p. m. 12 11 10
KOA (322.4m-930kc) St. John's Episcopal cathedral.

It's Quick! It's Clean!
TEST YOUR BATTERY with a GA-JIT



BATTERY GA-JIT REPLACES MESSY HYDROMETERS
\$1.25

NO RADIO OR AUTO COMPLETE WITHOUT ONE
No more spilling of carboys with acid. Battery Ga-Jit replaces the messy acid spilling hydrometer and tests your battery in a second.
At Your Dealers
If he can't supply, send price and we will forward one postpaid.
General Instrument Corporation
477 BROADWAY NEW YORK, U.S.A.



The Symbol of Value

THIS Tower trade-mark on a radio speaker or headset is your guarantee of maximum quality at minimum cost. Over 2,000,000 users of Tower products confirm this statement. Speakers from \$4.95 to \$15. Headsets, \$1.95 and \$2.95. Phonograph Attachment, \$3.95.

TOWER CONES
Manufactured by TOWER MFG. CORP. Boston, Mass.
Scientific \$9.50
Meistersinger \$15.00
On Sale from Coast to Coast

**TUESDAY, DECEMBER 21
Headliners**

Eastern	Central	Mountain	Pacific
WVIC (475.9m-630kc) Heublein trio.			
WEAF (491.5m-610kc) Ervan Davies, impersonator.			
WLW (422.3m-710kc) Santa Claus.			
WGK (379.5m-790kc) "The Barth and the Other Planets."			
WEAO (293.9m-1020kc) On the Hills of Judah.			
WEAA (475.9m-630kc) Marion Wakefield Romine, Literary chat.			
WRNY (374m-602kc) Christmas carols.			
WGDS (315.6m-950kc) Percy Mackaye, poet.			
WLS (344.6m-870kc) Prof. Davis Edwards.			
WBAP (475.9m-630kc) Wagoner Hawaiian trio.			
WHAS (399.8m-750kc) Carl Zoeller's Melodists.			
WLW (422.3m-710kc) Uncle Jack's barnyard family.			
KLDS (440.9m-680kc) Mrs. Herbert Spokesfield, pianist.			
KOIL (310.5m-980kc) Lions Club program.			
WVCD (344.6m-870kc) Concert quartet.			
WBAP (475.9m-630kc) Ft. Worth Club orchestra.			
WHD (526m-570kc) Prof. Paul Stoye.			
WHAS (399.8m-750kc) Kosar auditorium.			

Eastern	Central	Mountain	Pacific
WLW (422.3m-710kc) Formica orchestra.			
KOA (322.4m-930 kc) Ray-O-Vac Twins.			
WQAW (526m-570kc) Pat Kroh's Omadala orchestra.			
WFAA (475.9m-630kc) Jimmy Joy's orchestra.			

**TUESDAY, DECEMBER 28
Headliners**

Eastern	Central	Mountain	Pacific
WRNY (374m-602kc) Overture to Marriage of Figaro, Excerpts Gypsy Baron, Ballet, La Source, Serenade Hopak, Down South, in a Night Club.			
WVIC (475.9m-630kc) Ivella Ensemble.			
WLS (344.6m-870kc) Prof. Davis Edwards.			
WVIC (475.9m-630kc) Margery Nielsen, pianist.			
KLDS (440.9m-680kc) Marvel de Voll-Fell, violinist.			
KOIL (309.5m-980kc) Jack Halpine, Jr.			
WVIC (475.9m-630kc) Travelers Symphonic ensemble.			
WVIC (475.9m-630kc) Hotel Grayson orchestra.			
KPRC (299.8m-1000kc) Polar Wave Ice Palace Music.			
WQAW (526m-570kc) Pat Kroh's Omadala orchestra.			

7 Tube Set Single Dial Radio



30 DAYS FREE TRIAL

The Metrodyne

ONLY ONE DIAL TO TUNE

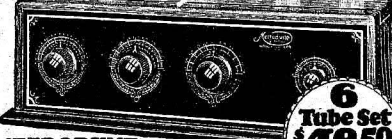
Retail Price \$75.00
COMPLETELY ASSEMBLED

WORLD'S GREATEST RADIO! Wonderful Offer Direct from Factory. This marvelous 7 tube single dial control radio set will be shipped on 30 days free trial anywhere in the United States, just to prove that it is the greatest long distance receiver made.

F. L. Warnock, Greentown, Ind., writes: "I received the Metrodyne in good shape and am most pleased with it. Got stations 2000 miles away." C. J. Walker, Mariposa, Calif., writes: "I believe that these one-dial sets are going to be excellent sellers. I had no trouble in tuning in stations enough to satisfy anyone, so you will please send me 1 more set." Thousands of similar letters received.

The Metrodyne Single Dial is a 7 tube Tuned Radio Frequency set, approved by America's leading radio engineers. Highest grade low loss parts, magnificent walnut cabinet. Exposed metal parts are finished in 24 karat gold. Genuine bakelite panel, artistically designed in gold. Easy to operate. Only one dial tunes in all stations. Dial is electrically lighted, 1,000 to 5,000 miles on loud speaker. Powerful volume—clear, distinct reception. Shipped to your home for 30 days free trial.

Big Profits to Agents and Dealers!
Home agents and dealers make big money selling Metrodyne. All or part time. Metrodyne radios have no competition. Lowest wholesale prices. Demonstrating set on 30 days free trial. Greatest money making opportunity.



METRODYNE SUPER SIX RADIO

Wonderful 6 tube, long distance radio set. Approved by America's leading Radio Engineers. Easy to operate. Dial is easy to tune in your favorite stations instantly on the same dial numbers every time. No guessing. 30 days free trial.

Mr. Howard of Chicago said, "With a Chicago Station on the air I tuned in 17 out-of-town stations, including New York and San Francisco on loud speaker very loud and clear."

METRO ELECTRIC CO., 2163 N. California Avenue, Dept. 176 Chicago, Illinois

Write!
Get our offer before buying a radio. Read the hundreds of letters from users who acclaim the Metrodyne as the greatest radio set in the world. None better at any price. A postal or letter brings complete information, testimonials, wholesale prices and our liberal 30 days free trial offer.

STOPS RADIO INTERFERENCE

ON YOUR SET. SIMPLE AND EASY TO OPERATE

NO TOOLS REQUIRED TO INSTALL. SIMPLY ATTACH YOUR AERIAL LEAD IN TO ONE OF THE LEADS ON THE LIMITATOR AND RUN THE REMAINING LEAD TO YOUR ANT. POST ON YOUR SET.

This is a new interference eliminator that limits the interfering stations from spreading all over your tuning dials. It keeps them separated from interfering with each other, helps to bring out some stations stronger. Built with the new type low-loss cyclone coil, really and substantially constructed, nothing flimsy, everything enclosed. Don't confuse with anything you have ever tried. Wonderful for broad tuning sets. Works on any aerial except a loop. *Try The*

"KING LIMITATOR"

BEST EVER OFFERED FOR ONLY ONE DOLLAR

MONEY BACK IF NOT SATISFIED WITH RESULTS.

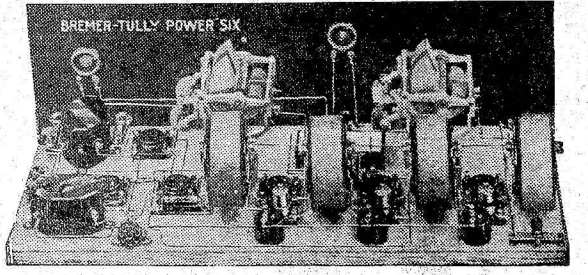
ARLINGTON RADIO MFG. CO.
BOX 42 FIRESTONE PK. STA. AKRON, OHIO

POSTPAID

ORDER ONCE

MAKE OF SET?

THE BEST IS ALSO THE EASIEST TO BUILD!



BREMER-TULLY POWER-SIX

The following statement of Gerald M. Best, technical editor and superheterodyne authority means much to fans who know the B-T record—

"The new Bremer-Tully Power-Six is by far the best Bremer-Tully receiver yet developed.

"Its remarkable selectivity and simplicity of operation leads me to believe it will be one of the season's most popular circuits. It is one of the easiest circuits to wire of any I have seen. Its engineering principle is sound.

"Congratulations to Bremer-Tully on this new development."

A 13 Year Old Fan Finds It Easy to Build

Bloomington, Ill., Nov. 4th, 1926
I am only thirteen years old but thought the Counterphase-Six the simplest set I had ever built. I have never heard a radio so selective combined with such amazing tone quality and volume.

In three weeks I have had seventy-four stations from Winnipeg, Canada to Miami, Florida; Los Angeles, Calif., and Springfield, Mass.

The essential parts cost \$41.50 in a kit. All high-grade dealers carry the Power-Six kit as well as B-T condensers, audio Transformers, Sockets, Dials, and the B-T B-Power Unit.

BREMER-TULLY MFG. CO. 520 SO. CANAL ST. CHICAGO, ILL.

Flexibility



Majestic "B" Current Supply

delivers pure direct current from your light socket

Majestic Standard-B Capacity seven tubes or six plus 1 power tube. 45 milliamperes at 135 volts. \$32.50 West of Rocky Mts., \$35.00	Majestic Super-B Capacity one to twelve tubes, including the use of power tubes. 45 mls \$35.00 at 150 volts. WEST ILLUSTRATED West of Rocky Mts., \$37.50	Majestic Master-B For Radiola 25, 28, 30 and Super heterodynes. Operates power tubes. 60 mls at 150 volts. \$42.50 West of Rocky Mts., \$45.00
---	---	---

The voltage can always be accurately adjusted to meet the varying conditions of every city and on any set. Economical—cost a fraction of a cent per hour. No acid or liquids; Uses Raytheon Tube; No filament to burn out.

No Hum—Superior to Any Source of Power

See your dealer today. Insist on a demonstration on YOUR set immediately!

(Can be purchased on deferred payments)

ORIGSBY - GRUNOW - HINDS - CO. 4576 ARMITAGE AVE CHICAGO-ILL

BUILDING REGENATROL
(Continued from page 7)

For mounting the parts on panel and subpanel, you will need the following screws and nuts:

Thirty 3/8-inch 6-32 flat or oval head brass machine screws.

Twenty 1/2-inch 6-32 flat or oval head brass machine screws.

Four 3/4-inch 6-32 flat or oval head brass machine screws.

Twenty-five 6-32 hexagon brass nuts.

If you use nickel-plated screws and nuts it will improve the appearance of your receiver.

This article on the construction of the Bruno Regenatrol receiver will be concluded in the next issue with a complete pictorial wiring diagram showing the connections on the layout from terminal to terminal and complete instructions for mounting the parts and wiring. Information on the operation of the receiver will also be given.

Meanwhile, builders anxious to finish, can assemble the set, using figures 3 and 4 as guides.

MIKE AND MOVIE STARS
(Continued from page 5)

experiences with Radio. She was scheduled to appear before KNX and while visiting one of her best friends, Leatrice Joy, the latter suggested she convey a message to Lucille Rickson, a friend of the two then in ill health and who, as movie fans will remember, later died.

This she promised to do, but when the time came to say the words into the microphone the thought of attempting to convey her personal thoughts to a dear friend while the whole world listened in was too much and she burst into tears.

"Imagine standing up and trying to speak a piece for nobody," snorted Lew Cody, when mention of Radio was made to him. All the same he is quite a Radio hound, although he still insists getting used to the microphone is like the stage actor getting used to the camera or the American tourist in France eating snails—they do it but it never seems natural.

Lew Cody is the official master of ceremonies for the movie colony in Holly-

wood. He is often on the KFI midnight frolics on Saturday nights and serves as liaison officer for the more inexperienced members of the Metro-Goldwyn studios when they are confronted with microphone appearances.

"I had to play with lions in the Devil's Circus," explained Norma Shearer when asked about her reaction to the mike, "and (Continued on next page)

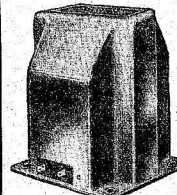
—as usual—

CARTER
Rheostats—Switches
Jacks

are specified in

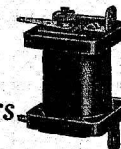
Bruno-Regenatrol
and other leading circuits, because of preferred Design and Quality

In Canada—Carter Radio Co., Limited, Toronto



use of the specified
Samson
Transformers
and Chokes

Success with
Bruno
Regenatrol
demands



The pleasure you get from your set largely results from its tone quality. This depends principally on two things—keeping all radio frequency currents in their own circuits, a job only Samson R.F. Chokes can perform because of their patented helical winding, and amplifying impartially all notes. Only the Patented Helical Winding of Samson Audio Frequency Transformers equally amplifies all notes through nullification of distributed capacitance effects.

Price, Choke No. 85, \$1.50
Transformers, all ratios, \$5.00

Samson Electric Co.
Main Office MEMBER Sales offices in
Canton, Mass. RMA all large cities

Again **ELECTRAD**
Parts are Mentioned
Use
ELECTRAD
Certified
Mica Condensers
ELECTRAD

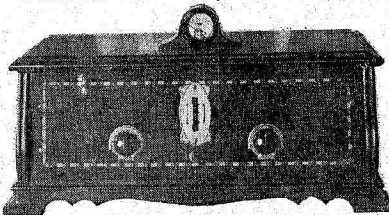
For Perfect Filament Control
3 AMPERITES
are specified in the
BRUNO REGENATROL Receiver
described in this issue.
Radiall Company
Dept. R.D.-7, 50 Franklin Street, New York City
At All Dealers
AMPERITE
The "SELF-ADJUSTING" Rheostat

LIGNOLE Chosen by Joseph Calcaterra for the Bruno Regenatrol Receiver
AS DESCRIBED IN THIS ISSUE

The most discriminating radio engineers and designers now regularly choose LIGNOLE, the new specially treated wood that meets all panel requirements.

Completely drilled and decorated panel can now be obtained for such prominent circuits as Victoreen, Madison-Moore, St. James, Bernard, Karas Equamatic and others.

If unable to obtain from your local dealer, write us direct.



FREE Write for interesting report on Lignole for Radio Panels by Professor Guy M. Wilcox, Senior Professor of Physics, at Armour Institute of Technology.

THE LIGNOLE CORPORATION 504 S. Dearborn St. CHICAGO, ILL.

THE Simplicity of tuning
THE Efficiency of the Bakelite Shaft Condensers and the Beauty of the Bronze Front Plate

Makes the "UNITUNE" the most desirable tuning device ever designed.

ALL BRUNO "UNITUNES" may be mounted on a panel with only two screws.

The basic "UNITUNE" consists of a frame upon which are mounted two condensers operated independently by two bakelite drums projecting thru a beautiful bronze plate. It may be obtained in all standard capacities. Completely assembled it lists at \$11.00. Other "UNITUNES" assembled with one or more Quartzite Coils for all popular circuits range from \$12.00 to \$21.00.

Booklet of Instruction and Blue Prints—25¢
BRUNO RADIO CORP., LONG ISLAND CITY, N. Y.

Build This New "Bruno" Regenatrol Receiver
As Described in This Issue by Joseph Calcaterra
Complete Kit of Parts Ready to Wire With **\$60.00**
Instructions

All regenerative UNITUNE kits are licensed under the Armstrong patent No. 1,113,148 and are assembled by the Clapp-Eastham Company exclusively for The Bruno Radio Corp.

Other Popular Kits Ready for Shipment. Every Kit Includes Full Instruction Sheets for Wiring.

New Improved Diamond of the Air Kit 5 Tubes
Complete Parts, **\$37.50**

Radio World's Popular Bernard 6-Tube Kit
Complete Parts, **\$40.00**

Silver-Marshall Shielded Six.....	\$95.00
Hammamund-Roberts Hi-Q.....	63.05
New Samson Dual Receiver.....	71.35
L C 27 Receiver.....	87.25
Henry-Lyford Receiver.....	69.50
Daven Bass Note Receiver.....	65.00
Improved Browning Drake Receiver.....	65.90
Four Tube Diamond of the Air.....	30.00
New Karas Equamatic.....	88.70
Cockadays Power Pack.....	65.15

Also B Eliminator parts and Speakers in Stock.
We carry a complete stock of standard merchandise.

75c (without bulb)
BRUNO LIGHT SWITCH provides a visual indication when the batteries are turned on.
When mounted under the UNITUNE drum, it reflects sufficient light on the scale to make it visible in the dark.
TURN IT—IT LIGHTS! PUSH IT—IT'S OFF!

Adjustable Bracket 45 to 90 Degrees
Die-cast Aluminum, will beautify and strengthen any set. Also in non-Adjustable, \$1.00 per pair.

\$1.25 PER PAIR
Die-cast Aluminum, will beautify and strengthen any set. Also in non-Adjustable, \$1.00 per pair.

All parts specified in the Bruno Regenatrol and other listed kits, can be purchased separately

SEND IN FOR BOOKLET
B. C. L. RADIO SERVICE CO. INCORPORATED
221-D Fulton St., N. Y. C.

CROSLEY

BETTER COSTS LESS

RADIO

CROSLEY RADIO INSTRUMENTS

Each item the nearest in radio at its price. All prices slightly higher west of the Rocky Mountains. Prices without accessories.



THE "PUP" \$9.75

This little double-circuit one-tube set has brought happiness to thousands and made records for long distance receiving.



THE "4-20" \$29

A 4-tube receiver of amazing efficiency. Crescendon equipped! Everywhere considered marvelous at its price.



THE "PORTABLE" \$22.00

The 4-20 in portable form, handy, compact, efficient.



THE "5-32" \$33

A five-tube tuned radio frequency set, with two stages of non-oscillating radio frequency amplification, Crescendon controlled. Two stages of audio frequency amplification.



"RFL-75" \$65

5-tubes. True cascade amplification, non-oscillating, non-radiating even under any mis-handling. Its perfect balancing achieved by Wheatstone Bridges in each stage of amplification. Exceptional selectivity and tone.



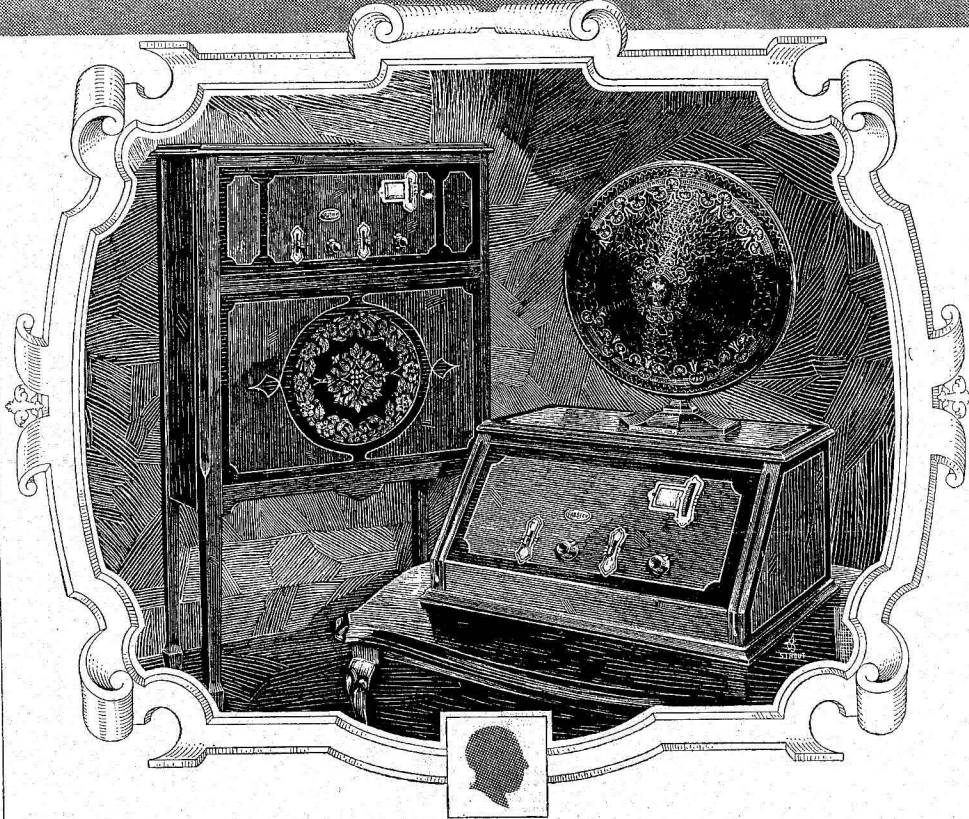
THE "MUSICONE" \$32.00

Embodies the Musicone in a beautiful console of two-tone mahogany finish and provides room for batteries and accessories; 24 1/2 inches long inside.



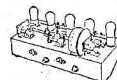
5-TUBE "RPL-90" CONSOLE \$90

Introducing the double drum station selector! Includes Musicone in exquisite console. Room for batteries and accessories; 40 inches high by 30 1/2 inches wide.



CROSLEY 1927 FEATURES

Many exclusive—others found only in highest priced radios.



ALL-METAL SHIELDED CHASSIS

This truly great radio achievement, found in several Crosley sets, furnishes a substantial frame for mounting elements, produces excellent alignment of condensers, shields 4th o units from each other, prevents interference, improves the stability of the circuit, increases selectivity and saves costs by standardizing this phase of manufacture.



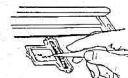
"THE ACUMINATORS"

Crosley Acuminators permit tuning in—loud and clear—weak stations passed over an entirely missed by ordinary single dial radios. In tuning high powered and local stations they are not used. They are an exclusive Crosley feature.



THE "CRESCENDON"

When, on ordinary radios ears must strain to catch a station miles away, a turn of the Crescendon on Crosley radios instantly swells reception to room-filling volume. An exclusive Crosley feature.



THE SINGLE-DIAL STATION SELECTOR

Nothing in radio equals the joy or the convenience of single dial control. Crosley's single drum control enables you to find the stations sought without log book or "tuning."



POWER TUBES

Power tube adaptability marks the Crosley "5-50," "5-75," and "RFL" sets. This feature typifies Crosley provision for best radio reception at moderate cost.

Amazing single dial control and reproduction

THE 5 tube 5-50 THE SUPER MUSICONE THE 5-75 CONSOLE

Such a success! Enthusiastic owners report amazing performance—a drum dial delivering stations loud, clear, sharp; each an almost imperceptible turn of the drum apart. Write station letters on the drum; return to them at will. This marvelous receiver containing these advanced ideas in radio (some of them exclusive to Crosley), including metal shielding and power tube adaptability indicates Powel Crosley, Jr.'s genius in lowering prices by mass production methods.

Listen to this wonder reproducer of broadcasting! Then you'll understand why it is the biggest selling loud speaker on the market EVERYWHERE, and the most imitated. Its shape, however, is NOT the secret of its wonderful performance. Its delightful tone and the fidelity of its reproduction is achieved solely through the Crosley patented actuating unit. Avoid imitations. There is only one genuine MUSICONE. Smaller model, 12-inch cone, \$12.50.

This set includes ideas for radio reception perfection NOT found in any other radio. Marvelous exclusive Crosley "Crescendon" and "Acuminators" increase volume on distant stations and bring in programs entirely passed by and missed on ordinary one dial control radios. Console is 40 inches high with ample room for batteries and a genuine Crosley Musicone is built in Radio chassis same as in the 5-50 receiver. Beautifully finished two-tone mahogany cabinet, rose gold fittings.

\$50. \$14.75 \$75.

Prices slightly higher west of the Rocky Mountains Write Department 49, for Illustrative Literature

Crosley manufactures radio receiving sets, which are licensed under Armstrong U. S. Patent No. 1,113,149, or under patent applications of Radio Frequency Laboratories, Inc. and other patents issued and pending.

THE CROSLEY RADIO CORPORATION
CINCINNATI, OHIO. POWEL CROSLEY, Jr., President

The Gift for the Entire Family For all time

New and Improved **FRESHMAN MASTERPIECE**

Model 6-F-11 illustrated here is

The Most Perfectly Toned Radio Ever Produced

ITS construction, with the large cone speaker filling the entire space immediately below the receiver, is so co-ordinated that it results in a tone unexcelled in any radio set.

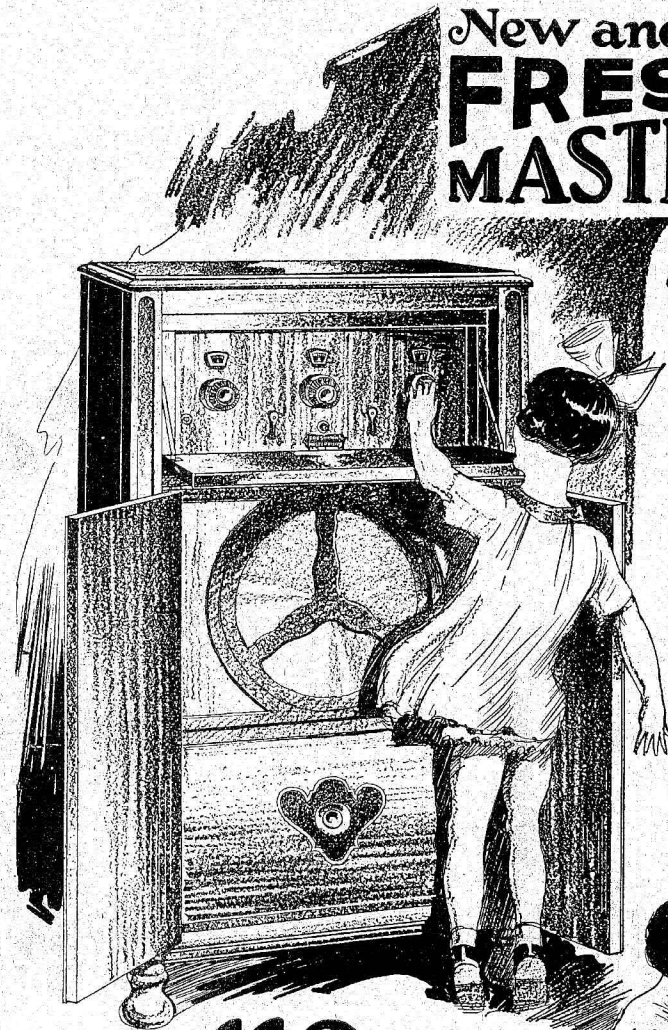
The large cone speaker has been designed to exactly match Freshman's new **QUALITY RADIO**. It easily handles the full volume that this powerful set delivers.

And, yet, when the power is reduced, the softest and mellowest tones come forth in a manner never before achieved by any sound-producing device.

OPERATES BY ELECTRICITY

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

Genuine RCA Radiotrons are recommended for use with **FRESHMAN MASTERPIECE RECEIVING SETS**.

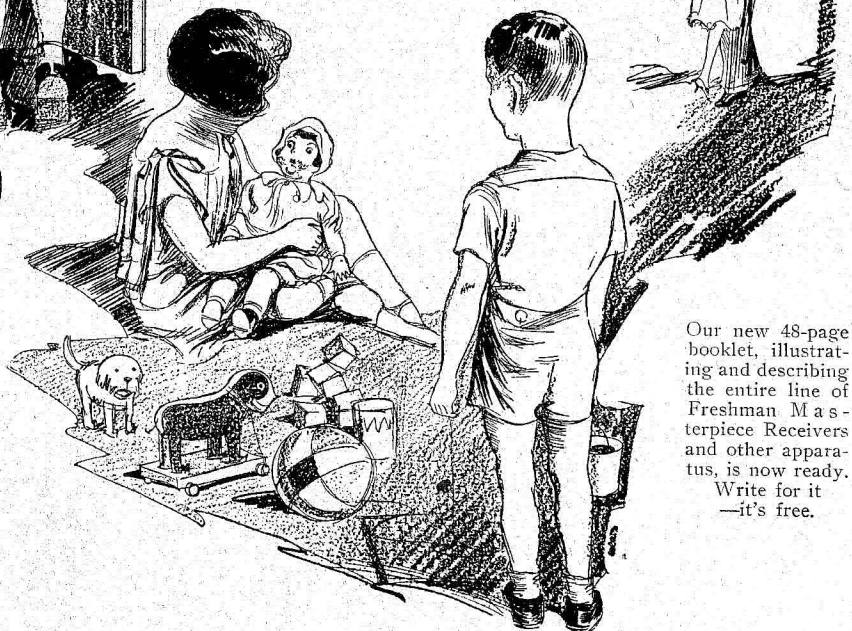


\$ 119 50

It is massive—it is beautiful; an article of furniture you will be proud to have in your home. Made of the finest genuine mahogany, with vigorous, finely proportioned lines, it certainly surpasses every expectation—the most perfect radio ever designed.

A storehouse of entertaining treasures for all—from grandmother to the youngest children—opera—dance—music—concerts—sports—sermons—and a thousand and one other desirable features—just take your pick.

Make life more pleasant with this "Masterpiece of Masterpieces."



Our new 48-page booklet, illustrating and describing the entire line of Freshman Masterpiece Receivers and other apparatus, is now ready. Write for it—it's free.

Sold on Convenient Terms

by Authorized Freshman Dealers—who also install and service them.
CHAS. FRESHMAN CO., INC.—FRESHMAN BUILDING—NEW YORK
2626 W. Washington Blvd., Chicago.

The Worlds Greatest Radio