RADIO LORE FOR NOVICE AND EXPERIENCED FAN

Decorative Cabinet Can Be Fashioned for 36-Inch Cone

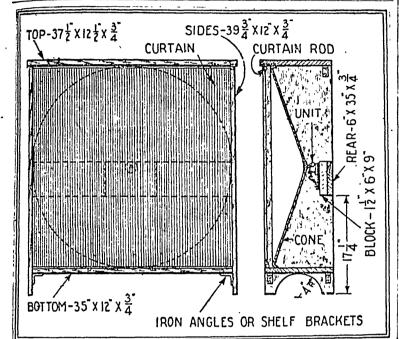
Console Not Only Provides for Loud Speaker, but Houses All Batteries or Power Equipment.—Fits Well Into Scheme of Living Room

pitched and tinny The thin reproduction of these small speakers was rery harsh and irritating, a contract pitched and thinly The time reproduction of these small speakers was yery harsh and irritating, a contrast to the deep mellow tones now obtained from some of the modern large horn and cone reproducers. And now even these speakers fall to satisfy. Most engineers, musicians and acoustical extensions are fairly well agreed that for fear duality of the large cone speaker, three feet in diameter, cannot be excelled. This explains why many lead orchestra was in the room.

The development of radio loud high price asked for large size manufactured to the last few years that it is precisely impossible for the average to be such an instrument. tically impossible for the average obtainable from such an instrument. the the phonograph, the radio of hard to improve upon a home-conserve years ago employed a small mestructed large size cone speaker conserved.

or feal quality of reproduction and the drums and the saxophones is reproduced with startling reality which celled. This explains why many leading manufacturers have already placed ing the disadvantages, the chief objection seems to be the large size, market.

It is not necessary for the radio experimenter who is unable to pay the large size, which makes it difficult to find a plage for it in the average living room. Many suggestions have been offered by



Construction Details of Loud Speaker Cabinet

AVIATION FIELDS ing illustration will appeal to many, as it shows how the speaker may be **WILL TEST MAPS** used to decorate the room.

Weather Warning Device Put Aboard Los Angeles

has been put aboard the great dirigible is believed that if the Shenandoah could have had the advantage of such equipment as this, it might have received warnings in time to have pre-vented its destruction, with accom-

panying loss of life. Results surpassing the fondest expecfew weeks Of particular grati- is scratched with a blunt tool such (5) but ether," said Donald, is that far and away the best a nail. This is necessary, because when she sit on ether, Daddy?" the last few weeks Of particular gratiis that far and away the best which is feetessary, because when she sit on either, baddy?

Issults have been accomplished by short the cone is formed it is bent back.

"You mustn't pay attention to what waves, which means that eventually toward the apex along the line of this popular songs tell you. Donald. The these maps may be flashed half way world, if necessary. And it is hoped eventually this service may be Morded to airships and airplanes as

Another highly encouraging fact ascertained is that static apparently isn't nearly such an obstacle as with audible radio. Recently when the U. S. S. Trenton, flagship of the Atlantic Fleet, from receiving code. weather map reception went on uninterrupted

The most recent experiments have been carried on with the U. S. S. Kittery, now in Carribean waters, about 2000 miles distant from Washington. before last maps were broadcast to the Killery on short waves by C. Francis Jenkins, the Washington inventor, whose laboratory is located almost a stone's throw from the temporary White House in Dupont Circle. Last week the broadcasting was done by the Navy Station NAA at Arlington and this week from the Naval Research Laboratory at Bellevue, in the outskirts of

The results from NAA on a longer length, about 8335 metres were out) with four thumb tacks in the wave length, about 8335 metres were Naval Research Laboratories on 50 and 74 and 24 metres, respectively, time After time radiog, ams have come from the Kittery that the reception has been

"We couldn't expect to do better than that, said Mr Jenkins enthusiastically, "and thus there has been accomplished the first application of visual radio to safeguarding and saving the lires of passengers and the saving of cargo of ships at sea. This is now no longer a theory but a fact"

Profiting by previous experience in aluminum frame of a condenser. Alumbroadcasting these storm signals, the entire map is no longer sent. A base inum cannot be soldered by ordinary map, already printed, is supplied to means because this metal is always corthe vessels before they leave port show-ing the coastline, the Eastern part of the United States and adjacent islands. Even with special flux and aluminum in the South Atlantic ocean It is then solders, it is a very difficult operation necessary to broadcast only the barom- and not always successful

enthusiastic radio fans, such as hanging it on the wall or from the celling However, it is believed that the idea which is presented in the accompany

The drawing gives all the necessary constructional details. As may be guessed, the cone is mounted in the front of the cabinet with the concave side out and the speaker unit is mounted on the heavy backboard of the cabinet. The storage battery and all other accessories are placed on the lower shelf of the cabinet behind the cone, and the radio set itself may be placed on the top of the cabinet. Thus it may be seen that the speaker cabinet takes the place of a battery table or console, and makes the whole radio Fondest installation very compact and attrac-

It is not necessary to give details The next application of weather for building the cabinet, as these are maps by radio will be attempted when clearly shown in the drawing. Howvarious flying fields under Govern- ever, some information might be given ment supervision are equipped with these radio weather map receivers, according to advices from Washington.

> point two concentric circles should be drawn with a compass consisting of

circle for the purpose of forming a flange. Next draw the line for the seg-

ment, which must be cut from the

circle. First draw a line from the cen-

line from the centre to a point on the edge 614 inches from the first line. The

second line is known as the glue line

and should not be cut. The second

cutting line is drawn between these

it meets the first cutting line. The

Gluing is the next step of construc-

tion. The coment is placed on the %-inch flange between the glue line and the second cutting line. The first cut-

ting edge is made to coincide with the

glue line and held in place with weights until the coment is dry. After the glue

is dry a small paper cone three inches

in diameter is made to reinforce the

apex and is glued in place. The metal apex cones supplied with the speaker unit are then fastened in place and the

cone is complete. It may not be fas-

flange formed by the small and large

The speaker unit is mounted in the

centre of the backboard of the cabinet.

and the method of attaching it to the apex of the cone is obvious. It should

require no adjustment, but if it does

Aluminum Difficult to Solder.

lered with a layer of natural oxide that

ordinary flux is not able to remove

Do not attempt to solder to the

be found in the box

directions will be f containing the unit.

segment may be cut out.

derstood that one of these machines with metal cone apexes and one tune of cement. The first step is to place the paper on the floor with the rough or unfin-ished side up. The centre of the paper should then be located, and from this miles away.

singer just meant that she was elated and felt above the rest of us mortals

tre to any point on the edge on the large circle and then draw a second and the stars were peep-holes for the line from the contre to a point on the langels." said the other twin, Doris. "When you were young! Gracious do you regard yourself as aged already?"

face,
"Well, we're half-past-eight, and two lines, parallel to the glue line and 7s of an inch from it. The line con-tinues from the edge to the point where that's pretty old," averred Doris.
"Then I must be decrept, Mamma,"

gram coming in tonight," entreated Donald.

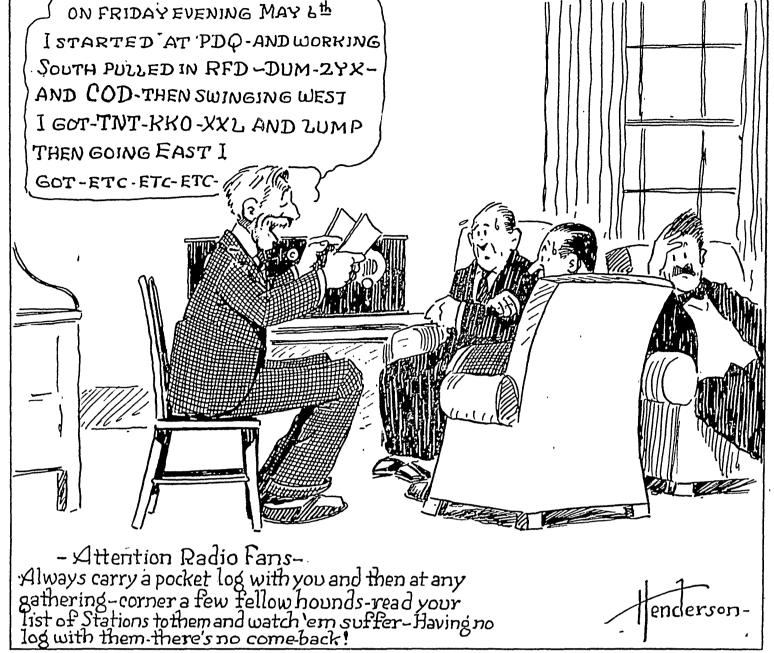
about?

swered Donald quickly.
"I told you about the ether last time, so now I guess I'd better tell you about the electronic roof that covers the world. No. Doris, that couldn't sit on it; she'll have to stay

electrons and protons, the smallest thing we know of. The sun sends its greatest showers when there are spots travelling over it, as I have already told you. The reason it has not en-tirely spent itself in this manner is bethat is floating around through space, at the Royal Observatory at Kowloon, such as meteors and bits of stars and a peninsula opposite the city of Hongother planets.

that all smaller objects would travel boring waters to avail themselves of toward him that were in the range of the warnings.

SHORT CIRCUITS



DADDY DESCRIBES

"I am sitting on the roof of the world," sang the silvery-throated soprano into the microphone a hundred electronic.

in her joy."

"When I was young I used to think

asked Mamma, trying to keep a grave

laughed Daddy.
"Aw, Dad, can't you tell us a radio

"All right, what will I tell you

"Some more about the sky." an-

on the ground, I fear.
"The sun is always busy sending out a great shower of electric particles of the smallest size, mostly consisting of it is constantly receiving matter

"The sun throws off these particles for as you know everything attracts at 15 hoped that the messages can be everything else no matter where it is received satisfactorily by crystal sets Now if Donald here should take a trip which would thus enable the many way out through space, he would find small Chinese junks which ply neigh-

his attraction, and that he would move toward a body that was larger than himself He would be attracting the larger body to him as well as it would

else But just the same it is not only station browleasts a number of vocal sethe earth's gravity that keeps us from lections by William A. Ives, tenor solo-falling off into space, but our own station browleasts a number of vocal sethe earth's gravity, too, by which we unknowingly hang on by attracting the earth as it attracts us; it is the same with objects, without life, animals, and everything else as it is with us human beings, for they all exert this force.

"So, you see, if the earth can pull of the Catholic Girls' Club at 8 05 p. m. Gilbert and Sullivan's comic operation."

I thought it was all nothing up there this layer of gas can actually conduct but ether, said Donald. "How could radio waves, for it has been proven that an "ionized' gas, as we suppose formation changes the properties of the

claimed by some clentists that it is WDWF b impossible to communicate with Mars, 4,45 p.m. but time alone will prove the correctness or incorrectness of this assump- with a program by Joseph Petrucci, Hation. "Aw, what's the use," gloomed Don-

to see if they knew of any way for us The regular program will be to visit them, and now you say our Tuesday (Fenwick Radio News Service)

CHINESE ON AIR

Hongkong Government Station to Send P. m. Typhoon Warnings.

Rear Admiral Bullard, chairman of the 7 20 p. m.—Capitol Theatre program. Closely following the prediction of Federal Radio Commission, that the Chinese soon would wake up to the possibilities of radio, comes word that a new wireless station has been erected

kong.

The new station, which was built by with such force that they are flung the Hongkong Government, will special-beyond the power of the sun to pull ize in broadcasting typhoon warnings them back again, so they just float in a number of languages, including around and do not return. When they English, French, German, Japanese and feel the pull of some larger body than Chinese, in order that the messages thenselves, such as the earth or some may warn vessels of all nationalities of other planet, they are attracted to it, the imminence of weather disturbances.

RADIO PROGRAMS

**ROOF OF WORLD"

The stracting him to it, but the larger body would pull him to it on account of the larger amount of gravity it would possess. The reason we do not notice this here on earth is because we are so close to it and its gravity. The straight is so strong that it counteracts all the earth's gravity that keeps us from falling off into space, but our own gravity, too, by which we unknowingly hang on by attracting the earth as it attracts us: it is the same with observed by the state of personal points and Protons from Sun personal Earth on Fringe of state of the state of the same with observed by missingly and belliah." by the National Grand Opera Company A patriotic talk on considering the carth as it attracts us: it is the same with observed by missingly in the same with obse

Atmosphere, Bonnid and Boris beings, for they all exert this force.

Told.—Layer Barrier to Communication With Mars

The family were enjoying the music lisuing from the loud speaker. The millions and trillions of these electrons is of the Catholic Girls' Club at 8 05 p.m. Gilbert and Sullivan's comic opera, "Ruddigore." presented by the National Light Opera Company, will be broadcast Wednesday, commencing at 8 p. m. An announcement in behalf of the Exhibition for the Blind at the State Auditorium will be made at 9 p. m. by Mrs. issuing from the loud speaker. The millions and trillions of these electrons torium will be made at 9 p m. by airs, twins were cosily seated on the floor come towards the earth they meet the Philip Carey. Beginning at 7:15 p. m. before the fireplace and Mamma was upper edge of our air, where they pile mending stockings under the big rose colored lamp, while Daddy was at the into atoms. As these electrons and with prominent speakers, will be broad-

cording to advices from Washington. Chased separately or in kit form. They dials of the receiving set, smoking his protons from the sun entirely surround cast. An appeal in behalf of the Vethurst Field in New Jersey, and it is most consumer of Foreign Wars Poppy Day will be the consumer of the firing of its atmosters. phere, you see we literally have a roof be delivered Friday at 9 p. m. The over the world, although it must be usual program schedule will be observed said that it is invisible and is merely saturday.

WEAN broadcasts the services of the "I told you before how some of the All Saints Memorial Church at 10:50

The twins looked surprised, and as waves sent out by a transmitting state. At m, and the United Palestine appeal tion ran along the ground and soon at 8 p m. The station will carry out ask him a question or two, he obligingly stopped the music and said. ingly stopped the music and said, the air wave travels upwards until it livered Tuesday, beginning at 6.55 p. m. Results surpassing the fondest expectations of those experimenting with the standing Reilly, planist, will be heard Friday at 4 15 p m, and "Uncle Red," under that an "lonized gas, as we suppose there is up there, can conduct electricity. An ionized gas is a gas the tricity. An ionized gas is a gas the lated tricity. The lated the lost of lated tween Brown and Dartmouth University of lated Saturday. Comatoms of which have either lost or thes will be described Saturday, com-

mencing at 3 p. m.
WLSI goes on the air with programs gas considerably.

"The reason that light coming to use felty at 10 a m. 2 30 p m and 6:30 from the sun, stars and moon is not p m, and the services of the Church affected by this reof is because light of the Seventh Day Adventists at 8 p. 10 ft. waves vibrate much faster than radio m. On Monday at 5 p. m the Provi-waves and this gives to them the power dence College Dance Orchestra will be of greater penetration.

"And because of this layer it is card. Usual programs will be broadcast the remaining days of the week, claimed by some scientists that it is WDWF broadcasts an organ recital at

WCOT goes on the air at 2.30 p. m Spanish guitar A program of new songs "We were trying to signal Mars will be browleast Monday at 2:30 p. m. Peter and Adelaide Favali. signals won't go through the roof of tenor and planist, will be heard at 7:30 p. m. Wednesday. Mrs. Rena Abrosini, coloratura soprano, and other artists will broadcast Thursday at 7:30 p. m. Leon H. Markey, tenor, will be heard Friday at 7:30 p. m. and Miss Alice Rushton and her pupils Saturday at 8

> WJAR-THE OLTLEY COMPANY-483 9.15 p. m. Correct time.
> 9.15 p. m. Correct time.
> 9.15 p. m. Hobert W. Powers Hudson-Essex Ophosica.
> Monday.
> 10.00 s. m. House Ards Endlo Exchange, s. department committed by Mrs. Wood on a language of household interest.
> All question schmitted will be only ewered by radio.

ewered by radio

1 05 p m = 8' dio program,

1 05 p m = 8' dio program,

1 00 p m = 8' dio program,

8 00 p m = Hisseloul scores

8 05 p m = Cotholi Charly Find talk

8 10 p m = Wilton A | Ites, tenor soloist

8 15 p m = Wilton A | Ites, tenor soloist

8 15 p m = Wilton T | Ites

1 00 p m = Cornol time

1 00 p m = Cornol time

1 00 p m = Cornol time

National cond Opera hour" by the

National cond Opera Company, presenting San son and Pediah."

Tuedas.

senting 'San son and Yealah."

Tueday.

'O' p. m. Stide to stam

to p. m. Weather televit.

The product of televit.

The product of televit.

Tabelle About, O'Nell

8.00 p. m. Bashall scales.

8.05 p. m. Tracesm under the auspices of the Cathode Gris Club.

(a) p. in —Orchestra.
 (b) p. m.—The comic opera "Ruddigore." by Gilbert and Sullivan, presented in tabloid version by the National Light Opera Company.
 (c) p. m.—Correct time.
 (d) p. m.—An announcement in behalf of the exhibition for the blind at the State Auditorium, by Mrs. Philip Carey.

9.00 p. m.—Correct time.

9.00 p. m.—An announcement in behalf of the exhibition for the blind at the State Auditorium, by Mrs. Philip Carey.

9.05 p. m.—Providence Trio with Roy Partington, tenor.

9:50 p. m.—Better Rusiness Bureau talk by F. M. Hathavay, manager Providence Better Insteness Bureau.

10.00 p. m.—Wictor Herbert Memorial program" relayed from New York city.

Thursday.

1.05 p. m.—Studio program.

1:20 p. m.—Wemorial program under auplices of the G. A. R. and Sons of Union Veteraus of the Civil War; addresses by Chistopher Carpenter, Designment of the G. A. D.

Hetter Cariers' Band, under direction of Frank Curtis.

7 50 p. m.—One of saics of talks by F.

Stewart Strumhan, Jr.

8.00 p. m.—Bawball scores.

8.05 p. m.—Wuscal program.

8.25 p. m.—Community Chest talk.

8.30 p. m.—Half bour with great compos-

5 30 p. m.—con.

ors.

9 00 p. m.—Correct time.

9 00 p. m.—Orchestra.

10 00 p. m.—Orchestra and tenor.

Friday.

10.00 a. m.—Housewives Radio Exchange, a department conducted by Mrs. Wood on all matters of household interest. All questions submitted will be answered by radio.

1 05 p. m.—Studio program.

m -Weather report

i p. m.—Musical program.
i p. m.—Radio artist.
j p. m.—Radio artist.
j p. m.—Radio artist.
j p. m.—Wisical program, under they
direction of Fred Picitz, bass soloist.
j p. n.—Correct time.
j p. m.—An appeal in behalf of the
Veterans of Foreign Wars' Poppy Day.
j p. m.—Continuation of musical program.
p. m.—Continuation of musical program.
https://doi.org/10.1006/1

1.05 p. m.-Studio program. 1 30 p. m.—Weather report 7 55 p. m.—Baspall scores. 8 60 p. m.—"Week-Unders" 9 00 p. m.—Correct time.

WEAN-THE SHEPARD STORES-365. Today. 10 50 a. m -- Service from All Saints Meme 10 20 a. m — Service from A. Trial Church
1-90 p. m.—Symphony concert orchestra.
relayed from WNAC,
6 20 p. m.—Organ recital,
7 m p. m.—Asia Serenaders,
6 99 p. m.—United Palestine appeal.
Monday.

11 55 a m —Time signals.
12 (b) m —Asia Serenaders.
12 (b) m.—Wasia Serenaders.
12 (c) p. m.—Weather report.
12 (c) p. m.—Continuation of musical pro-

gram,
4 m p m.-Musical program.

Tuesday.

10 00 a. m — Talk
11 55 a. m — Time signals
12 60 m, — Ada serciaders.
12 10 p. m — Weather report
12 15 p. m — Continuation of musical program
4 00 p. m — Organ recital
4 20 p. m — Weather report.
6 30 p. m. — Weather report.
7 45 p. m — Talk on Carboic charities.
8 60 p. m. — Musical program
9 00 p. m. — Musical program
9 30 p. m. — Program from WNAC.

11:55 a. m.—Time signals.

11:55 a. m.-Time signals

Today's Programs in Brief

For the convenience of radio fans, the following hourly schedule of broadcasting today is given in brief form, the complete program being given under the regular listing of announcements. Figures following stations denote wave length.

The hours are based on Eastern Daylight Saving Time.

LOCAL STATIONS 10:00—Bible study, WLSI, 441. 10 50—Church, WEAN, 365. 1.00-Orchestra, WEAN, 365. 2.30-Bible study, WLSI, 441. 2.30—Bible study, WLSI, 441.

Music, WCOT, 265.

3 00—Program, WCOT, 265.

4.45—Organ, WDWF, 441.

6:30—Bible study, WLSI, 441.

Organ, WEAN, 365.

7:00—Orchestra, WEAN, 365.

7:00—Concert, WIAR, 483.

00—Addrass, WEAN, 365.

Ohurch, WLSI, 441.

9:15—Time, WJAR, 483.

OUT-OF-TOWN BTATIONS Orchestra, WJAR, 483.
OUT-OF-TOWN BTATIONS
9.09—Children's hour, WJZ, 454.
10.30—Bunday school, WBB, 223.
Church, WGBW, 297.
Bunday school, WLW, 422.
10:45—Church, WGR, 319.
Church, WHAR, 275.
Church, WOO, 608.
10:50—Church, WBZ, 333.
Church, WHAIC, 314. Church, WOO, 606, Church, WBZ, 333, Church, WABA, 333, Church, WTAM, 889, Church, WQAO, 360, Church, WQAO, 360, Church, WJZ, 434, Church, WRNY

Church, KDICA, 300.
Church, WJA, 454.
Church, WJR, 516.

11:26—Wetther, KYW, 638.
11:45—Church, WGOO, 416.
Church, WMAQ, 447.
11:56—Church, WSU, 428.
12:00—Church, WJA, 228.
12:00—Church, WJA, 248.
12:00—Church, WWI, 852.
Church, WWI, 852.
Church, WWI, 852.
Church, WWI, 428.
12:00—Church, WJR, 236.
Church, WSAI, 326.
Church, WSAI, 326.
Church, WJA, 516.
12:00—Church, WJR, 516.
12:00—Church, WJR, 516.
13:00—Church, WJR, 516.
13:00—Church, WJR, 516.
2:00—Muslc, WHN, 361.
Church, KNI, 467.
Church, KNI, 475.
2:15—Recital, WHAD, 275.
Sunday school, WOO, 508.
2:45—Sermon, WHAR, 275.
3:00—Trio, WHAD, 275.
3:00—Rally, WLWI, 334.
Church, WQAO, 390.
Rally, WENY, 374.
Conference, WEAF, 462.
Church, WGW, 379.
Church, WGW, 379.
Church, WGW, 379.
Church, WGW, 379.
Church, WGR, 361.
Church, KGO, 361.
Muslc, WGN, 363.
3:15—Organ, WTG, 269.
Muslc, WGN, 360.
Muslc, WGN, 379.
Church, KGO, 361.
Muslc, WGN, 379.
Church, WGRS, 316.
Church, KGO, 361.
Muslc, WGN, 379.
Church, WGRS, 316.
Organ, KDKA, 399.
Organ, WGR, 379.
Church, WGRS, 316.
Church, WGRS, 316.
Church, WGRS, 316.
Organ, KDKA, 399.
Organ, WGR, 379.
Church, WGRS, 316.
Church, WGRS, 316.
Organ, WGR, 379.
Organ, WGR, 379.
Church, WGRS, 316.
Organ, WGR, 379.
Organ, WGR, 379.
Church, WGRS, 316.
Orchestra, WHA, 381.
Muslc, WRA, 482.
Organ, WGR, 493.
Orchestra, WHA, 381.
Muslc, WGA, 469.
Lecture, WFAA, 462.
Orchestra, WHA, 381.
Orchestra, WGR, 463.
Orchestra, WGR, 469.
Lecture, WHA, 381.
Orchestra, WGR, 469.
Lecture, WGA, 469.
Lecture, WGA

Concert, WOR, 405.
Organ, WOO, 508.
6:10—Church, WCCO, 416./
6:15—Orchestra, WFAF, 422.
6:25—Baseball, KDIKA, 309.
6:30—Orchestra, KDKA, 309.
Reading, KYW, 536.
6:45—Concert, WJR, 516.
6:50—Baseball, WJZ, 454.

Ig Time.

Irch, WKBW, 297.
sebalt, WEZ, 333.
nsemble, WEZ, 833.
Austc, WJR, 516.
Organ, WJZ, 454.
Organ, WOR, 495.
Music, WTAM, 389.
Correct time, WJZ, 454.
Organ, WBAL, 246.
15—Church, WIP, 108.
120—Capitol Theatre program, WTAG, 545; WEAF, 492; WEM, 480; WSB, 428; WSM, 282; WWJ, 352.
7:30—Secial, WEZ, 333.
Church, WFF, 894.
Feature, WHAN, 278.
Church, WGY, \$79.
Music, WBAL, 246.
Church, WRN, 374.
Music, WJZ, 454.
Baseball, KDKA, 509. Music, WRNY, 374,
Muske, WJZ, 454
Baseball, KDKA, 309,
7:45—Ohurch, WFAR, 275,
Special, WOR, 405,
Church, KDKA, 309,
Church, WGR, 319,
7:55—Church, WGCO, 416,
8:00—Church, WCCO, 416,
8:00—Church, WAIAQ, 447,
Orchestra, WJZ, 454,
Church, WTAM, 389,
Talk, WLYUL, 384,
Orchestra, WBAL, 246,
Baseball, WJR, 316,
Bible study, WFAA, 476,
8:15—Short News, WOC, 484,
Church, WCX, 516,
8:80—Organ, KOA, 322,
Orchestra, WBZ, 333,
Travelogue, WJZ, 454,
Church, WGW, 454,
Church, WGW, 452,
Church, WGW, 379,
Church, WGC, 484,
8:40—Organ, WMAQ, 447,
8:45—Chimes, WSAI, 326,
Recital, WGY, 379,
9:00—Concert, WHAR, 275,
Music, WMAQ, 447,
Feature, WTAM, 389,
Violinist, KYW, 636,
Concert, WHAP, 431,
Baseball, WPG, 299, Concert, WHAF, 331.

Baseball, WPG, 299.

Sermon, WSAI, 326.

Veapers, KFI, 467.

Violinist, WBAL, 246.

Violinist, WDAL, 246.

Violinist, WDA, 454.

9:10—Orchestra, WPG, 299.

9:15—News, WTAG, 545.

Feature, WLW, 422.

Program, WMAG, 447.

Time, WMAG, 447.

Time, WMAG, 447.

Church, WSM, 282.

Atwater Kent hour, WEAF, 482; WRG, 489; WSAI, 320;

WGR, 319; WGY, 379; WCCO, 416; WWJ, 352; WOC, 484.

Church, KNX, 337.

Correct time, WEAF, 402; WFI, 894; WGY, 379; WSAI, 328.

9:40—Orchestra, WBZ, 233.

Orchestra, WBZ, 233.

Orchestra, WBZ, 316.

Orchestra, WBZ, 454.

Readings, WHAP, 431.

Music, KOA, 322.

9:45—Lecture, WBAF, 492.

Feature, WHN, 361.

Music, WCCO, 410.

10:00—Tro, KFI, 467.

Music, WCCO, 410.

10:00—Tro, KFI, 467.

Music, WPG, 299.

Play, WEAF, 492.

Organ, WHAD, 275.

Orchestra, WIP, 508.

Play, WRO, 460.

10:15—Feature, WHN, 361.

Music, WGB, 316.

Orchestra, WENR, 266.

Music, WGBS, 316.

Correct, time, WIZ, 454.

Orchestra, WENR, 266.

Music, WGBS, 316.

Church, KNN, 337.

Orchestra, WGO, 361.

Baseball, WBZ, 333,

Feature, WHA B, 333.

Correct, KGO, 361.

Baseball, WBZ, 333,

Orchestra, WHA B, 361.

UHAB B, 441.

gram.
3:00 p. m.—Baseball game.
6:30 p. m.—Dinner dance.
8:00 p. m.—Wellesley and Forest Hills, relayed from WNAC. 8:30 p. m.—One-act play, "Don't Tell My Wife." 9:00 p. m.—Dance music from Rhodes-on-the-Pawtuxet.. Thursday.

10 00 a. m.—Talk.
11 55 a. m.—Time signals.
12 00 p. m.—Asia Serenaders.
12 10 p. m.—Weather report.
12:15 p. m.—Continuation of musical program.
4.00 p. m.—Organ recital.
4.30 p. m.—Weather report.
4.35 p. m.—Harriet Ziegler, soprano.
6:30 p. m.—Dinner dance.

7:30 p. m.—Talk. 7:35 p. m.—Musical program. 7.35 p. m.—Quartet. 8.00 p. m.—Quartet. 8:30 p. m.—Broadcast, relayed from WNAC-9:15 p. m.—Orchestra. Friday.

11:55 a. m.—Time signals.
12:00 p. m.—Asia Serenaders.
12:10 p. m.—Weather report.
12:15 p. m.—Continuation of musical program.
4:00 p. m.—Orchestra.
4:15 p. m.—Jack Reilly, planist.
4:30 p. m.—Weather report.

dence Rafety Council.

6.20 p. m.—Orchestra.

7:30 p. m.—Talk,

8.00 p. m.—Musical program.

8.20 p. m.—Peature.

9.00 p. m.—Trio.

Snturday.

11.00 a. m.—Talk.
11.55 a. m.—Time signals.
12.00 p. m.—Asia Berenader.
12.10 p. m.—Weather report.
12.15 p. m.—Continuation of 12 15 p. m.—Continuation of matter gramme.
3.00 p. m.—Baseball game, Dartmouth vs.
Brown University.
6.30 p. m.—Boston dinner dance,
8.00 p. m.—Broadcast, relayed from WNAG,
9:30 p. m.—Dance music.

WI.SI, LINCOLN STUDIOS, INC., 441. 10.00 a. m.-International Bible Students 10:00 a. m.—international Bible Students' program.
2 30 p. m.—International Bible Students' program.
6:30 p. m.—International Bible Students' program.
8:00 p. m.—Service from Church of the Seventh Day Adventists.

Monday.
5:00 p. m.—Providence College Dance Or-

chestra.
Tuesday.
7:00 p. m.—Dreyfus Hotel Trio.
8:30 p. m.—'Dick'' Harrington and hts 10.00 p. m.—Hotel Biltmore Orchestra.

Wednesday.

7 0) p. m.—International Bible Students program

9 00 p. m.--Miltmore Market Hour,
Thursday,
6-45 p. m.--Narragansett Hotel Orchestra.

8.45 p. m.—Talk. 8.69 p. m.—Guernsey Plaza program. Friday.

10 00 a. m.-Radio Directory hour.

7.00 p. n.-International Bible Students

program.

1.00 p m. -Arnadia Dance Orchestra.
Saturday.

10 00 p. m. --Hotel Biltmore Orchestra. WDWF-DUTEE WH.COX FLINT-441

Today.

WCOT-CONN'S OLYMPIA THEATRE-265

guitar, and Edgar Fournier, Spanish guitar, and Edgar Fournier, Spanish 3.00 p. m.—Variety program.

Monday,

2:30 p. m.—Organ music and variety program.

7:30 p. m.—Program of new songs, written by John J. Harney and John H. Savage.

7:45 p. m.—Baseball scores and sport news.

8:00 p. m.—Organ and variety program.

7:30 p. m.—Entertainers.

7:45 p. n.—Entertainers.

Wednesday.

2:20 p. m.—Eggan and variety program.

8:00 p. m.—Entertainers.

Wednesday,
2:30 p. m.—Organ and variety program.
7:30 p. m.—Peter Favall, tenor, and Adelaide Favall, planist.
7:45 p. m.—Baseball scores and sports news.
8:00 p. m.—Instrumental sertet.
Thursday,
2:30 p. m.—Organ and variety program.
7:30 p. m.—Dagan and variety program.
8:00 p. m.—Baseball scores and sports news.
8:00 p. m.—Popular musical selections.
Friday,
2:30 p. m.—Dagan and variety program.
7:30 p. m.—Dagan and variety program.
7:45 p. m.—Baseball scores and sports news.
8:00 p. m.—Variety program.
8:00 p. m.—Baseball scores and sports news.
8:00 p. m.—Baseball scores and sports news.
8:00 p. m.—Variety program.
7:45 p. m.—Baseball scores and sports news.
8:00 p. m.—Variety program.
7:45 p. m.—Baseball scores and sports news.
8:00 p. m.—Wariety program.
7:45 p. m.—Baseball scores and sports news.

OUT OF TOWN STATIONS To-Day

KDKA—EAST FITTSBURGH—300

11:00 a. m.—Service of the Point Breeze
Presbyterian Church, Pittsburgh.

2:00 p. m.—Roxy and his gang.

4:00 p. m.—Organ recitul.

4:45 p. m.—Vesper service of the Shadyside
Presbyterian Church, Pittsburgh.

0:25 p. m.—Baseball scores.

0:30 p. m.—Twilight hour of music.

0:30 p. m.—Service of the First Baptist
Church, Pittsburgh.

9:00 p. m.—Violin recital.

KFI-LOS ANGELES-467

HFI—LOS ANGELES—467

2:00 p. in.—Services direction of Los Angeles Church Federation.

9:00 p. in.—Vesper services.

10:00 p. in.—Program by Russian Academy of Musical Art Trio.

10:03 p. in.—Weather forecast.

11:00 p. in.—Organ recital.

12:00 p. in.—Classic hour.

1:00 a. in.—Dance orchestra.

2:00 a. in.—Orchestra.

KGO-OAKLAND-361 3:00 p. m.—First Congregational Church service, San Francisco.
10:30 p. m.—Concert orchestra.
11:30 p. m.—Weather report.
11:35 p. m.—First Congregational Church service, San Francisco.
1:00 a. m.—Diusical program.

KNX-LOS ANGELES-337
2 00 p m.-Service from First Presbyterian Church, Hollywood.
6:00 p m.-City Park Board musical program.

10 15 p m —Service from All-Souls Church,
10 30 p m —Service from First Unitarian
Church.

Continued on Page Twelve

Committee of the

pressure and wind velocity, thus tap a hole for a small machine screw

DESCRIBES CONE

Device Result of Much Work on Part of Experts

speaker many different types of construction were experimented with, C. L. of the Radio Club of America recently. Various materials, including hard rubber, celluloid, wood, metals, paper, etc., were tried for the cone.

A fibrous paper, not highly calen-ered, operates satisfactorlly and predered, operates satisfactorily and presents a good commercial solution. The

and may be deviated from without af fcting operation to any large extent. The freedom of movement, of course hindered somewhat by the flexing of the paper at the edge. This flexing involves a loss of power which can be compared to hysteric losses Experi-ments were conducted to determine the amount of these losses and to lessen them. Sandpapering an annular por tion at the edge of the cone or substi-tuting light, flexible paper or other material and castellating the paper edge

Where heavy paper was used the above experiments improved the results

Inventor Farrand Discusses Mate- and were manifested by an increased treble. Complete freedom of the edge was obtained by suspension of the conon silk thread The cone was mounted on a paper straw and reinforced by silk threads from the straw to its periphery At the end of the straw was mounted a bobbin which floated in the annular field produced by the electro-magnet The complete assembly was supported by threads. There was nothing to retard the axial motion of the bobbin: It Farrand, noted inventor, told members floated freely in the sound wave and motions as large as one-eighth of an inch were sometimes noticed when

As this was done, it was found that the edge of the cone, due to the slow-ness of curvature, was not inclined to move integrally with the rest of the cone. This was overcome by making a circular through-like portion at the proper thickness for the paper was found to be approximately one mil (.001 inch) for each inch of diameter, the circular form of the cone. A method in the circular form of the cone. A method is a control of the cone of the providing a soft-finish paper is used; the thickness should be less if the paper is hard finish. The harder the making a V shape trough instead of paper is hard finish. The harder the finish of the paper, the greater will be the circular trough. The advantages found the tendency to depart from the cone shape, and undue stress will be set up in the paper, which will give rise to rattles, due to "tincan" actions.

The proportion of the altitude of the ring at the edge of a paper are apparamental and th cone to its base can be gauged by the ent. The outer portion of the conangle of the side of the cone to its axis." can be conveniently turned inward and This should range between 30 and 600 the mass of the supporting rings and degrees. These values are approximate the supports materially reduced with-and depend upon the size of the cone, out affecting its operation.

WLW-CINCINNATI-433. NEW INSTALLATION

0.20 a. m.—Sunday school. 12.00 m.—Service from the Seventh Pres-byterian Church.

in - Rally of the Holy Name Sciety, Yankee Stadium.
. m.- Sermon, Paulist choristers.

m - Service from People's Church, m -- Baseball,

m.- Chicago Sunday Evening Chi

WWAQ-CHICAGO-447.

WOC-DAVENPORT-481

2 00 p. m. Rosy and his gang. 3 00 p. m. Musical program. 8 15 p. m. Sport news. 8 30 p. m.- Service from St. John's Epis-copal Church. 9 15 p. m.--Atwater Kent hour. 11 30 p. m.--Musical program.

WORT-ROCHESTER-340

WOO-PHILADELPHIA-508

WOR—NEWARK—405 .--Studio program. .--Orchestra

m.-Organ recital, m.-American Legion program.

m - Organ recital,
m - Vocal and instrumental recital,
m - Concert hour,
m - Since the concert hour,

Concert hour.
 News and baseball scores.

n.- Concert orchestra. m -- Sunday evening musical.

WRC-WASHINGTON-169

Of m.—Church service

of m.—Studio orchestra

of m.—Rovy and his gang

of m.—Noung People's conference,

of m.—Service from Washington Cathedral,

of m.—Capitol Theatre program,

WRNY-NEW YORK-374

WSAI-CINCINATI-326 -Service from the Avondale Meth

WSB-ATLANTA-428

m .- First Presbyterian Church

p m - Capitol Theatre program, p m - Service from First Presbyterlan Church.

WTAG-WORCESTER-515 20 p. in —Capitol Theatre program, 15 p. in —News bulletin.

WTAM+CLEVELAND-389

WWJ-DETROIT-352 2:00 m.-Service from St. Paul's Cathedral, 20 p. m.-Capitol Theatre program, 2:15 p. m.-Atwati Kent hour.

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R-A-D-I-O Exclusively

PROVIDENCE, R. L.

SMALL SHOP

EQUIPMENT

1 00 a. m — Services.
1 00 p. m — Affermon musical.
1 00 p. m — Orchestra.
1 00 p. m — Program.
2 00 p. m — Services.
1 00 p. m — The eventons.

WQAO-NEW YORK-360

to to p. m. Reverte hour,

Powerful Radio Links Mexico with Most byterian Church.
4-60 p. m —Organ recital.
8-30 p. m Services of the First Presbytgrian Church of Walnut Hills,
9-15 p. m.—Grand opening program from
the Cincinnati Zoo, featuring Presella's of World. Installation of two powerful radio systems, sending and receiving, has been completed at the Mexican Govern-ment's radio station at Chapiltepec, the WLWI-NEW YORK-381.

Department of National Telegraphs has The new apparatus makes possible points in the American continent, with given means and property on a wide scale, hoping that thus the Austria, Rusia, Jugoslavia, Belgium and Poland on the European continent, as the continent, as the continent of the deaf may be greatly facilitated beyond the bounds made rell as with Japan, China and the possible by the sign language.

Phillipe Islands. It is understood that the new appa m -Time signals, m -Chicago Sunday Evening Club ratus will also make possible the transmission and reception of messages in the Pacific and Atlantic, oceans, Gulf of Mexico and other oceans and

> The new apparatus is now being subjected to the most rigid of tests, after which it will be officially inaugurated by President Calles. A system of tariffs for the public is now being worked out.

WAVES TRAVEL HIGH

Balloonist Hears Stations at Altitude of

The question of whether or not radio, Punyon, Jr., of Yonkers, N. Y., who, by waves travel far up in the sky has been means of his amateur station, 2AG answered by Capt. H. C. Gray, who re-cently climbed 31,000 feet above Scott Field in a free balloon. He listened in with a broadcast receiver and picked up concerts from KSD and KMOX. St. Louis, hearing them clearly until the altimeter registered 31,000 feet, when he

segan the six-mile descent. Capt. Gray did not listen during the drop because he was to busy preparing to make a parachute jump. He re-ported no static at the high allitude. where the temperature was 70 degrees

RADIO HELPS DEAF

The experiments were suggested by ordinary telephone. The newly devised temple, and the results are described transmitted the story by telegraph on

New York to New Zealand, enabling A running story of the fight was broadcast from a New York station. The broadcast was picked up by C. R.

Insist Un—

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Providence

Tel. Gaspee 6523-6528

RADIO PROGRAMS

Continued from Page Eleven 11:00 p. m .- Service from First Presbyteris . m .- Feature program.

KOA-DENVER-322

2:00 p. m.—Service of Trinity Methodis
Episcopal Church, Denver.

8:30 p. m.—Organ recital from Trinit
Methodist Episcopal Church, Denver.

9:30 p. m.—Dinner concert.

10:45 p. m.—Service of Trinity Methodis
Episcopal Church, Denver. Trinit

KYW-CHICAGO-536 11:25 p. m.—Time signals and weather

port.

12 00 m.—Central Church service.
2,00 p. m.—Roxy and his gang.
5:00 p. m.—Lecture.
5:30 p. m.—Studio concert.
6:30 p. m.—'Twenty Minutes of Good Reading.'' ing."

9:00 p. m.—Godfrey Ladlow, violinist.
0 30 p. m.—Weekly revue.
10.30 p. m.—Concert.
11:55 p. m.—Time signals and weather

WABC-NEW YORK-316 m.-Services West End Presbyteria

WBAL-BALTIMORE-216 m.—Organ recital, m.—Jubilee singers.

8.00 p. m.—Concert orchestra. 9:00 p. m.—Godfrey Ludlow, violinist. WBZ-SPRINGFIELD-333 10:50 a m.—Services from the Church of the Unity, Springfield.

1:00 p. m.—Studio orchestra.

2:00 p. m.—Roxy and his gang.

7:00 p. m.—Baseball results.

7:03 p. m.—Ensemble.

7:00 p. m.—Broadcast under the direction of the National Society of the C. A. R.

8:20 p. m.—Orchestra.

8:30 p. m.—Orchestra. 9:30 p. m.—Studio orchestra. 10:30 p. m .- Baseball results

WCCO-MINNEAPOLIS-416

11:45 a. m.—First Trinity Lutheran Church service.

12:50 p. m.—Hennepin Avenue Methodist Episcopal Church service.

4:50 p. m.—Baseball game.

6:10 p. m.—House of Hope Presbyterlan Church service.

7:55 p. m.—Second Church of Christ, Scientist, service.

9:45 p. m.—Musical program.

11:00 p. m.—Organ recital.

12:00 p. m.—Weather report and baseball stores. WCCO-MINNEAPOLIS-416

WCX-DETROIT-516
p. m.-Talk,
p. m.-Services from Central Methodist Episcopal Church,
WEAF-NEW YORK-492
p. m.-Young People's Conference, auspiece Greater New York Pederation of
Churches

Churches
4:80 p m.— Interdenominational Church
services, auspices Greater New York
Federation of Churches
5:30 p. m.—Young artists' program, featuring Evelyn Klein, violinist, and Beula
La Verde Puffey, planist,
6:00 p. m.—"Appreciation of Poetry," by
Dr. Robert Underwood Johnson, former

Dr. Robert Underwood Johnson, former Ambassador to Italy and Director of the Hall of Fame.

6:15 p. m.—Orchestral concert, direction Pasquale Rescigno.

7:20 p. m.—Capitol Theatre program.

9:15 p. m.—Correct time.

9:16 p. m.—Atwater Kent hour.

9:45 p. m.—'The Writing of Short Stories," by Fannie Hurst.

10:00 p. m.—Biblical drama, "James of Galliee."

WENR-CHICAGO-266 3.00 p. m.—Hour of better music 10 30 p. m.—Orchestra WFAA-DALLAS-476

4 30 p. m.—Farmer's Hour, music.
8:00 p. m.—Bible class
10:00 p. m.—Bervice First Church of Christ,
Scientist.
11:00 p. m.—Music from Grace Methodist
Chares.
1:00 a. m.—Recital.

WFF-PHILADELPHIA-394

D m.—Chapel service under the auspices of the Church Federation of Philadelphia.

D m.—"Ask me another"

D m.—"Service from Arch Street Preshyterian Church

9:15 p. m.-Correct time. WGBS-NEW YORK-316

9 80 p. m.—Orchestra. 10.30 p. m.—Musical program

WGPH-DETROIT-270 p. m.-Services from the First Church Christ, Scientist.

WGR-BUFFALO-310
WGV-SUIENFCTADY-378

11:00 a. m — Service of First Refor
Church
5:00 p. m.— Musical program,
4:00 p m — Crgan recital
7:30 p. m.—Service of First Church
Christ, Stientist
8:43 p m.— Vollen and place recital m.—Vlolin and plano recital, m.—Correct time, m.—Atwater Kent hour,

WHAD-MILW AT KEE-275

WHAD—MHAWAI KEE—275

1:00 p. m.—Organ concert

2:00 p. m.—Children's f-vature.

2:30 p. m.—Studio trio.

4:30 p. m.—Studio trio.

4:30 p. m.—Wisconsin Conservatory
Music classical hour

5:15 p. m.—Haseball

10:00 p. m.—Organ recital.

11:00 p. m.—Popular music

WHAP—NEW YORK—431
9:00 p. m.—Concert of sacred musts
9:30 p. m.—Selections from the Bi
Science and Health with Key
Scriptures.
10:45 p. m.—Organ recital.

Mortgages WHAR-ATIANTIC CITY-275
a. m -- Service of the Chelsea Baptist

2:15 p. m — Recital. 2:45 p. m.—Ventnor I:20 p. m.—Children's period. 7:45 p m.—Service of Chelsen Baptist Church. 9:00 p. m.—'An Hour with the Classics.''

WHN-NEW YORK-361
12:30 p. m.—Organ recital.
2:00 p. m.—Organ recital.
4:30 p. m.—Special feature.
5:00 p. m.—Dance orchestra.
5:30 p. m.—Special features.
9:45 p. m.—Special feature.
10:15 p. m.—Feature.

WIP-PHILADELPHIA-508.

WJR-DETROIT-516. 11.00 a. m.—Service from the First Raptist
Church of Pontlac, Mich
12.45 p. m.—Service from the Central Methodist Episcopal Church of Pontlac,
Mich.
1:00 p. m.—Capito Hox", from the
1:00 p. m.—Capito Theatre program.

WJZ-NEW YORK-454.

7:15 p. m.—Service from Holy Trinity Church, 10:00 p. m.—Orchestra,

ni. m —"Question Box" from the Woodward Avenue Presbyterian Church, Detroit.

Church, Detroit.

3:00 p. m.—Novena service broadcast from the Shrine of the Little Flower, Detroit.

6:45 p. m.—Organ recital.

7:00 p. m.—Twillight Hour."

8:00 p. m.—Final baseball scores.

11.00 p. m.—Service from the First Haptist Church of Pontlac, Mich.

10:15 p. m.—Special feature. 10:30 p. m.—Feature. 10:30 p. m.—'Mind Reading' 12:00 p. m.—Orchestra.

11:00 a. m.—St. Matthew's Lutneran Church services. 3:00 p. m.—Holy Name ra'ly of the Arch-diocesan Union of the Holy Namo So-clety. 5:00 p. m.—Business men's hour. 7:30 p. m.—Chelsea Methodist Episcopal Church services. WSAI-US LOCKED

12 00 m -Service from the Avond
odist Episcopal Church
8 45 p, m -Sacred chime concert,
9 00 p, m -Radio acrimente,
9 15 p, m -Correct time,
Control bour.

WJZ-NEW YORK-454,

9:00 a. m.—Children's hour.

11:09 a. m.—Service from Park Avenue Baptist Church.

1.00 p. m.—Studio orchestra,

2:00 p. m.—Studio orchestra,

2:00 p. m.—St. George verper service,

5:30 p. m.—Radio vespers

6:30 p. m.—Baseball scores,

7:00 p. m.—Correct time,

7:00 p. m.—Organ recital; Helen Turley,

contralto.

7:30 p. m.—Male quartet.

contraite.

7:30 p. m.—Male quartet,
8:00 p. m.—Concert orchestra.
8:30 p. m.—Concert orchestra.
8:30 p. m.—Travelome, "Hits of Old Eugland—Devonshire."
9:00 p. m.—Gedfrey Ludlow, violinist,
9:30 p. m.—Studio orchestra.
10:30 p. m.—Correct time.

WKBW—BU PPALO—297.

10:30 a. m.—Service from chapel of ChurchIII Tabernacle.

12:30 p. m.—Sacred music.

3:00 p. m.—Service.

7:00 p. m.—Evangelistic service.

10.15 p. m.—Melody hour.

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The 6-inch CRESCENT BENCH

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Vienna Mutes Hear Sound and Musi-for First Time.

Much interest has been aroused by the success of experiments with a special radio receiving apparatus upon patients and pupils in an asylum for the deaf and dumb in Vienna, according to dispatches to this country.

the well-known fact that persons cuite deaf to the direct tones of the humen voice often hear perfectly through an apparatus is generally placed against the ear, but sometimes against the

but four heard distinctly the sounds transmitted by radio, whether instrumental music or the tones of the hu-

The four who failed to hear were suffering not merely from station in Jamaica transmitted the impairment of the labyrinth of the ear, but also from decay of the audi-

tory nerves of the brain.

Physicians and scientists are study communication of Mexico with all ing the nature of this achievement and points in the American continent, with will devise means for its application

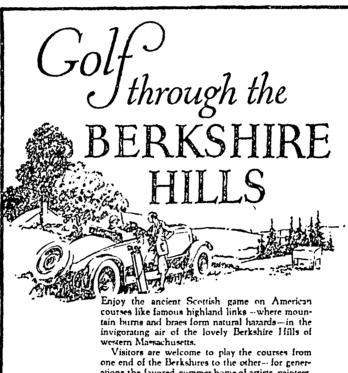
NEW "HAM" RECORD

Amateurs Give New Zealand Early Fight

Providence operators regard as a noteworthy achievement the transmission by amateur radio of a blow-by-blow account of the Tom Heany-Paulino Uzcudun boxing bout from i ewspapers of the latter country, which is Heany's home, to print the story only a few hours after the fight.

UNION ELECTRIC

60 PINE STREET



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409 metres to John Grinan at station NJ2PZ, in Jamaica, British West In-dies, 1500 miles away. Runyon was tions. unable to work New Zealand direct because the fading on 40.9 metres was too severe. At the end of the fight, the blow-by-blow description to OZ2AC, in New Zcaland, on a wave length of 21

At the New Zealand station, news

paper representatives received the dotand-dash report and rushed % to their offices in time for the afternoon edi-

In order to keep up with the blow-by-blow description by the rapid-fire broadcast announcer, the Yonkers brondcast announcer, the Yonkers operator had to telegraph letters in place of whole words. As an example, he found it necessary to boil down "Heany lands right on jaw" to "HRJ."

Insulators are devices made of materials which will not conduct electric ity in the ordinary meaning of that "non-conductors," Some good insulators, including the modern bakelite



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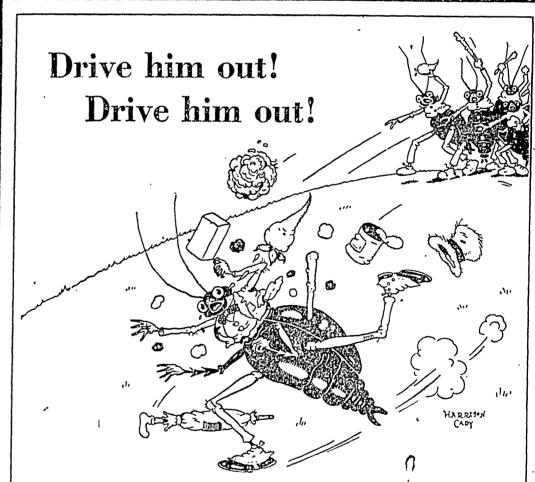
Quantities of Some of the More Popular Sets Very Limited, So Buy Early. Deliveries and installations will be made in rotation by our regular service men.

You cannot afford to pass an opportunity to buy a nationally advertised set—speaker, set of parts or eliminator at a very low price, and to buy from the

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He'll exterminate us all! He stepped in Peterman's!

RIGHT! He will exterminate them Peterman's Roach Food extermi-

nates every roach in your house. It entices roaches from their hid. ing places. They carry it on their legs and bodies back to their nests. They wriggle over all the others there, over their young and their eggs.

Every one dies and disintegrates.

No odor. Nothing is left but a little dry dust. Don't try to fight roaches with a spray. No spray can possibly reach the roaches, the young and the eggs far behind the baseboards and under the floors.

Only the right powder can do that.

Peterman's Roach Food is the right powder. Here is the right insecticide for

PETERMAN'S ROACH FOOD - exterminates cockroaches. PETERMAN'S ANT FOOD—exterminates

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each insect:

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