## RADIO LORE FOR NOVICE AND EXPERIENCED FAN

#### Entire Radio Frequency Range Divided, First Time in History

New Arrangement Work of International Radiotelegraph Conference.—World's Services to Operate on Wave Bands Assigned by Representatives of Nations

Washington. D. C., Nov. 26.—From the highest practicable wave length down to the "border of infinity," die waves. In the band below 1500 kilocycles, or 200 metres, ample provision is also made for broadcasting, particularly, for the first time in history, for the use of the various international radio services. The agreement upon the allocations of frequency bands from 10 to 60,000 kilocycles (30,000 to 5 metres) is perhaps the most noteworthy accomplishment of the International Radiotelegraph Conference, which met in Washington with delegates attendin Washington with delegates attending from 79 nations.

The spectrum has been divided into

ment. The designation of these bands was practically the last item of regulations to be written into the Wash-lations to be written into the Wash-lation of 1927, which write the convention of 1927, which write the convention of 1927, which write the convention of 1927 which we will be co

gent views were represented at the out-set among the technical experts from sults. all corners of the world who participated in these deliberations. As finally heir unanimous agreement.
Ship and shore stations got primary

teurs find themselves restricted to very country.

2. However, for stations, which by

Clearest

To owners of a

"B" eliminator

If your "B" is satisfac-

tory, Balkite "A" will

enable you to make a

complete light socket

installation at very low

Chicago

Civic Opera

On the Air Thursday

Evenings, 10 o'clock

Eastern time. Over

stations WJZ, WBZA,

WBZ, KDKA, KYW,

WGN, WMAQ, WBAL, WHAM, WJR, WLW,

WCCO, WENR. 10:30 Eastern Time, WEBH, KSD, WOC, WOW,

BALKITE HOUR

WHO, WDAF.

cost. Price \$35.

as it does not allow interference with in washington with delegates attenting from 79 nations.

The spectrum has been divided into something like 60 bands, in each of which ship, aircraft, land, broadcasting, amateur and experimental stations will operate according to allot. In the designed international services. Thus, it is anticipated the amateurs will be enabled by assignments from the Federal Radio Commission to carry on communications between themselves this country—17,000 of the world's 25 to 25

ington convention of 1927, which will lington convention of 1927, which will be a second property of the second pr radio, after being taken back to the various countries for ratification.

Six weeks or more were spent by the technical committees in solving the useless realm in radio. Yet so were the wave lengths below 200 metres are the wave lengths below 200 metres are the wave lengths below 200 metres. problem of allocating the long and short waves, the low and high frequencies, to the services to which they were deemed most suited. Many diverbelow 5 metres, the allegedity useless below 5 metres, the allegedly useless channels may yet yield some good re-

Accompanying the table of allocaall corners of the world who participated in these deliberations. As finally framed, the allocations represented their unanimous agreement.

Accompanying the table of allocations, the regulations prescribe the limitations regarding possible interference in the following provisions:

1: Any high contracting party may consideration, of necessity, in the al-locations. But aircraft radio services or any type of emission to any radio assign any frequency or wave length button of frequency (wave length) comprised between the limits 160 to locations. But aircraft radio services or any type of emission to any radio and radio beacon and direction finding station under their jurisdiction on the bands as a guide giving the limits for bands as a guide giving the limits for to are not ignored. Nor is broadcasting, sole condition that it does not the property of the property are not ignored. Nor is broadcasting, sole condition that it does not inter-In the short waves, however, the amasole condition that it does not interrequire all new stations to comply, and 1500 kilocycles (545 to 200

and truest Electric Radio

Is a standard

radio set

equipped with

Balkite

Electric "AB"

Of course you want an AC electric

receiver. For its convenience. Now

you can have it, without the uncer-

tainty of untried apparatus, and with-

out sacrificing quality of reception.

Simply by adding Balkite Electric

"AB" to your present radio set. Bal-

kite Electric "AB" replaces both "A"

and "B" batteries and supplies radio

power from the light socket. It con-

tains no battery in any form. It oper-

ates only during reception. It makes

This method makes possible the

use in electric reception of standard

any receiver an electric set.

sets and standard

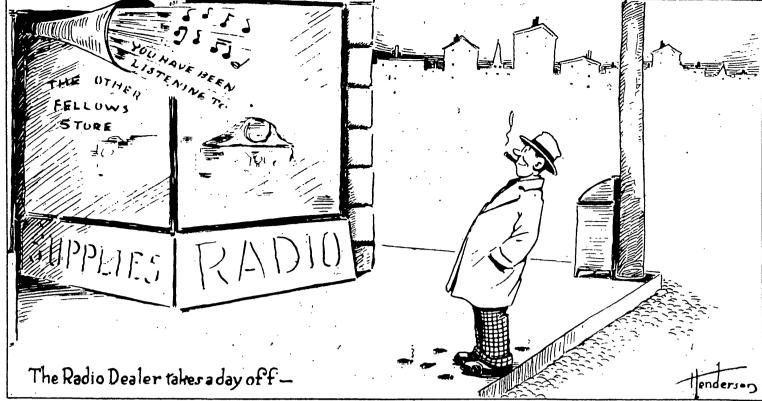
type tubes. Both

are tried and

proved, and give

by far the clear-

### SHORT CIRCUITS



lengths) in accordance with the following table.

3. The high contracting parties are agreed to consider the table of distributions of the following table.

1. The high contracting parties are above 1000 metres), in principle, must be brought within the frequency band

with which they will make existing sta-tions comply in the shortest time prac-of this convention,

est and truest reproduction. With this

method there is no waiting for tubes

to warm up. No difficulty in control-

ling volume. No noise. No AC hum-

No crackling or fading of power. In-

stead the same high standard of re-

ception to which you are accustomed.

.In this method there is nothing ex-

perimental, nothing untried. It con-

sists of two of the most dependable

products in radio—a standard set and

Balkite. And if you should already

own a radio set, the cost of equipping

it with Balkite is only a fraction of

By all means go to AC reception.

Its convenience is the greatest im-

provement in radio. But be as critical

of an AC receiver as you would of

any other. That your AC receiver be

a standard set equipped with Balkite

Electric "AB." Then it will be as clear

and faithful in reproduction as any

Two models, \$64.50 and \$74.50.

Ask your dealer.

Fansteel Prod-

ucts Co., Inc.,

North Chicago,

the cost of a new receiver.

receiver you can buy.

ELECTRIC AB

Contains no battery

within one year after the ratification

narrow bands.

The American broadcasting band is left untouched, while bands among the longer waves are assigned for Europs and other regions where the transmis
The American broadcasting band is their nature are known to be capable of causing material international international international internations and other regions where the transmis
2. However, for stations, which op tically possible without reducing the quality of the service they are giving. having due regard to the actual state of their equipment.

4. However, all the broadcasting stations of their equipment.

4. However, all the broadcasting stations of their equipment inconveniences to existing services, to make the production of their equipment. which already use frequencies com-prised in this band, or to these sta-tions which by the application of Paragraph 4 above are going to use this

The power of existing radio broadcasting stations employing frequencies below 300 kilocycles (waves above 1000 metres) may not be in-creased unless no inconvenience will be caused to existing stations or serv-

account the type of emission to be Following is the complete schedule

of international wave allocations as metres)—fixed. agreed upon by the International Ra- 11,000 to 11 dio-telegraph Conference and to which practically all of the nations of the 11,400 to 11,700 kilocycles (27.3 to 11,400 to 11,700 kilocycles (26.3 to practically all of the nations of the world employing radio services will 25.6 metres)—fixed. oon adhere:
10 to 100 kilocycles (30.000 to 3000 25.2 metres)—broadcasting.

metres)-point to point and mobile 110 to 125 kilocycles (2725 to 2400

125 to 150 kilocycles (2400 to 2000 metres)—mobile, maritime service, general public correspondence only.

150 to 160 kilocycles (2000 to 1875)

metres)—(a) broadcasting; (b) point to metres)—(a) broadcasting; (b) point to point, (c) mobile. Subject to agreement as follows: All regions where broadcasting stations now exist working below 300 kilocycles (above 1000 metres)—broadcasting; other regions, (b) point to voint; (c) mobile. Regional agreements will respect the rights of one another in this band.

rights of one another in this band.

194 to 285 kilocycles (1550 to 1050 metres)—(a) mobile, (b) point to point, (c) broadcasting. Subject to regional agreement as follows: Europe (a) mobile (a) respect to the point (a) mobile (a) respect to the point (b) point (c) broadcasting. (a) mobile (aircraft only); (b) point to point (air services only), (c) point point (air services only), (c) point point (NGP) from 250 to 285 kilo cycles (1200 to 1050 metrcs); broadcasting from 194 and 224 cycles (1550 to 1340 metres); other regions. (A) mobile, except commercia ships: (b) point to point (aircraft only); (c) point to point (NGP).

285 to 315 kilocycles (1050 to 950 metres)—special (radio beacons).

315 to 350 kilocycles (950 to 850 metres)—mobile (aircraft service only).

350 to 360 kilocycles (850 to 830 metres)—mobile (NGP). 360 to 390 kilocycles (830 to 770 metres)—(a) Special (direction finding): (b) mobile, where it does not interfere with direction finding.
390 to 460 kilocycles (770 to 650

metres)—mobile.
460 to 485 kilocycles (650 to 620 metres)—mobile. except damped and radio telephone waves.
485 to 515 kilocycles (620 to 580 metres)—mobile (distress, calling etc.)
8ce Note 2.

515 to 550 kilocycles (580 to 545 metres—mobile (not open to general public correspondence) except damped metres)—broadcasting—See Note 3.

1300 to 1500 kilocycles (230 to 200 kilocycles (230 to 20 metres)-(a) broadcasting; (b) mobile

(on the frequency 1364 kilocycles only, wave length 200 metres).

1500 to 1715 kilocycles (200 to 175 metres)—mobile.
1715 to 2000 kilocycles (175 to 150 metres)—mobile, fixed and amateurs.
2000 to 2250 kilocycles (150 to 133 metres)—mobile and fixed.

2250 to 2750 kilocycles (133 to 109 metres)—mobile.

2750 to 2850 kilocycles (109 to 105 netres)—fixed stations.

2850 to 3500 kilocycles (105 to 85 netres)—mobile and fixed. 3500 to 4000 kilocycles (85 to 75

netres)—mobile, fixed and amateurs.
4000 to 5500 kilocycles (75 to netres)—mobile and fixed.
5500 to 5700 kilocycles (54 to 52 5700 to 6000 kilocycles (52.7 to 50

metres)—fixed. 6600 to 6150 kilocycles (50 to 48.8 metres)—broadcasting. 6150 to 6675 kilocycles (48.8 to 45 6675 to 7000 kilocycles (45 to 42.8 metres)-fixed. 7000 to 7800 kilocycles (42.8 to 41

netres)—emateurs. 7800 to 8200 kilocycles (41 to 36.6 metres)—fixed, 8200 to 8550 kilocycles (36.6 to 35.1 metres)—mobile, 8550 to 8900 kilocycles (35.1 to 33.7 metres)mobile and fixed. 8900 to 9500 kilocycles (33.7 to 31.6

#### Weekly Radio Test

1. How many kinds of tubes are used in broadcasting and receiving? 2. Why do the American radio manufacturers aim to make

most of their sets for Cana-dian consumption in Canada 3. If greater distance is wanted, which group of trans-formers should be considered for replacement: audio or ra-

4. How many radio receiving sets are in use in the world? Why do planos used on the stage sound sharp and sometimes toneless over the radio? Answers to these questions will be found elsewhere in the

(Copyright, 1927.)

9500 to 9600 kilocycles (31.6 to 31.5 metres)-broadcasting. 9600 to 11,000 kilocycles (31.2 to 27.3

"11,900" to 12,300 kilocycles" (25.2 to 12,300 to 12,825 kilocycles (24.4 to 23.4 metres)-mobile. 12,825 to 12,350 kilocycles (23.4 22.4 metres)—mobile and fixed.

12,350 to 14,000 kilocycles (22.4 14,000 to 14,400 kilocycles (21.4 20.8 metres)—amateur. 14,400 to 15,100 kilocycles (20.8 to

17,800 to 21,450 kilocycles (16.85 to 4 metres)—fixed. 21,450 to 21,550 kilocycles (14 to 13.9

13.45 metres)—mobile. 22,300 to 23,000 kilocycles (13.45 to 13.1 metres)—mobile and fixed. 23,000 to 28,000 kilocycles (13.1 to

0 metres)—not reserved. 30,000 to 56,000 kilocycles (10 to 5.35

eserved.

Note 1—3331 kilocycles (900 metres)
5 the international aircraft calling and
9, m, on Saturday the luncheon of the s the international aircraft calling and listening frequency.
Note 2—500 kilocycles (600 metres)

is the international calling and distress frequency. It may be used for other purposes when it will not interfere with Note 3-Mobile services use the band Thanksgiving poem will be read as

tion using this band exclusively for radio telephone broadcasting, Note—N. G. P. means: Not for Gen-

#### HELPFUL HINTS

Light Plug Acrial Efficiency Depends on House Wiring.

plugged into a floor socket depends to a large extent upon the nature of the wiring of the buildings. An aerial

set by counting the number of variable condensers and the number of trans-formers between the audio frequency

10.7 metres)—not reserved. 28,000 to 30,000 kilocycles (10.70 to

metres)—not reserved.

56,000 to 60,000 kilocycles (5.35 to 56,000 kilocycles (5 to 0 metres)—not eserved.

60,000 kilocycles (5 to 0 metres)—not eserved.

Foreign Policy Association will be on the air broadcast direct from the Narragansett Hotel ballroom.

WCOT starts its week of programs

550 to 1300 kilocycles (545 to 230 metres) on the condition that they do not interfere with the services of any na-

be broadcast. Wednesday the usual program will be heard. Thursday at eral Public Correspondence. 8:30 p. m. will be broadcast a musica program by Ernest Reddy, tenor solo

the results obtained. It is not possible to determine the number of stages of amplification in a

stages. There are in radio what are known as "untuned stages." These reto quire no variable condensers for con-

#### Team." At 1:05 p. m. on Saturday Al Williams and his orchestra will be on

netres)—broadcasting. 21,550 to 22,300 kilocycles (13.9 to

special request. Tomorrow at 7:30 pm. Ducky Grinshaw, tenor and Mc-Connelly, pianist will be on the air At 7:30 p. m. on Tuesday, Madame Rina Ambrosina, colortina coprano wil

The efficiency of an aerial that is

merely is an electrical pick-up device and obviously, if the wiring through the house is run through metal pipes there will be an undesirable shielding effect. This explains why some persons who have tried these condenser plugs have found them ineffective, while others have been quite enthusiastic over

### WEAN-SHEPARDS-319.

WEAN—SHEFARDS—319.

Today.

11:00 a. m.—Service from Mathewson Stree Methodist Episcopal Church.

3:00 p. m.—Columbia chain program.

4:00 p. m.—Columbia chain program.

5:00 p. m.—Old time fiddlers program.

6:30 p. m.—Columbia chain program.

9:30 p. m.—Columbia chain program.

9:30 p. m.—Columbia chain program.

10:00 p. m.—Columbia chain program.

Monday.

ist and Miss Gladys Buck, planist. Fri

at 1:30 p. m. with the Wailana troup At 2:00 p. m. Rev. Father Young's

11:55 a. m.—Time signals.
12:00 m.—Asia Serenaders.
12:30 p. m.—Weather report.
12:35 p. m.—Continuation of musical pro-

#### RADIO ILL8 IF YOUR RADIO IS

3. Unable to cut thru the locals and bring in distance as a properly constructed radio should

RADIO JIM OF BROADCAST FAME

Expert Advice Without Charge DEXTER 7274

### RADIO PROGRAMS

gram.
4:00 p. m.—Musical program.
4:30 p. m.—Weather report.
6:30 p. m.—Dinner dance.
6:55 p. m.—Feature.
7:00 p. m.—Orrect time.
7:30 p. m.—Correct time.
7:31 p. m.—Army recruiting realties revealed. WEAN begins broadcasting with the service from Mathewson Street Methodist Episcopal Church at 11:00 a.m. The Columbia chain programs will be on the air at 3:00 p. m., 4:00 p. m., 9:00 p. m., 9:30 p. m. and 10.00 p. m. At 5:00 p. m. an old-time fiddlers program will be heard and at 6:30 p. m. 7:31 p. m.—Army recruiting realities revealed.
8:00 p. m.—Mary Boylan trio.
8:30 p. m.—Where's a New Book," by Linus Travers.
9:00 p. m.—Columbia chain program.
10:00 p. m.—Columbia chain program.
10:00 a. m.—Home service radio chat.
11:55 a. m.—Time signals.
12:00 p. m.—Asia Serenaders.
12:33 p. m.—Continuation of musical program.
4:00 p. m.—Organ recital.
4:50 p. m.—Organ recital.
4:50 p. m.—Dinner dance.
7:20 p. m.—Eature.
8:00 p. m.—Weather report.
8:00 p. m.—Weather resport.
9:15 p. m.—Op'ry House Tonight, WNAC Players present "Uncle Tom's Cabin."
9:15 p. m.—Dudley radio carollers.

Wednesday.
11:55 a. m.—Time signals. the Asia Serenaders. Tomorrow at 8:00 p. m. the Mary Boylan trio will be on the air. The Dudley radio carollers will be on the air at 9:15 p. m. on Tuesday. Wednesday the usual program will be heard. Thursday at 8:30 p. m. the 118th Engineers band will be

WJAR commences its week of programs at 11:55 a, m. with the Capi-tol Theatre symphony concert. The Crosley orchestra will be broadcast at Wednesday.

11:55 a. m.—Time signals.

12:00 m.—Asia Serenaders.

12:30 p. m.—Weather report.

12:35 p. m.—Continuation of gram.

4:00 p. m.—Musical program.

4:30 p. m.—Weather report.

6:30 p. m.—Dinner dance.

7:30 p. m.—Correct time.

8:00 p. m.—Rhodes orchestra.

9:00 p. m.—Columbia chain pi 5:30 p. m., the Weymouth Post No. 7, American Legion band at 6:30 p. m., the Capitol Theatre program at 7:20 p. m. and at 9:00 p. m. will be heard a talk on "Our Government" by David Lawrence. The Robert W. Powers orchestra will be broadcast at 9:15 8:00 p. m.—Rhodes orchestra.
9:00 p. m.—Columbia chain program.
10:00 p. m.—Columbia chain program.
10:00 a. m.—Home service radio chat.
10:30 a. m.—Musical program.
11:00 a. m.—Cooking school, conducted by
Alice Bradley.
11:55 a. m.—Time signals.
12:00 m.—Asia Sercenaders.
12:30 p. m.—Weather report. p. m. Tomorrow at 7:30 p. m. Santa Claus will give a talk to the children direct from Happyland, An auction bridge game will be broadcast from the station at 10:00 p. m. on Tuesday. Wednesday and Thursday the custom-ary programs will be on the air. Friday at 7:15 p. m. Grantland Rice will give a talk on "All American Football

broadcast with Jovite LaBonte, leader. Uncle Red will be on the air at 7:05 p. m. on Friday under the auspices of the Providence Safety Council.

Saturday the usual program will be

12:35 p. m.—Continuation of muscial program.

4:00 p. m.—Organ recital.
6:30 p. m.—Asia Serenaders.
7:30 p. m.—Correct time.
8:00 p. m.—Kalua Hawaiian troupe.
8:30 p. m.—IISH Engineers band, Jovite LaBonte, leader.
Friday.

9:15 a. m.—Community sing by the Shepard chorus.

11:40 a. m.—'American Homemakers' under the air.
WLSI starts broadcasting at 10:30 a, m, with the International Bible students' program. At 6:30 p. m. the I. B S. A. will broadcast Bible questions and answers and at 7:00 p. m. they will give a French lecture. The service from ard chorus.

11:90 a. m.—'American Homemakers' under the direction of Mrs. Ida S. Harrington. the Church of the Seventh Day. Adton.

11:55 a. m.—Time signals.
12:00 m.—Organ recital.
1:00 p. m.—Weather report.
4:00 p. m.—Musical program.
4:30 p. m.—Weather report.
6:00 p. m.—Jimmy Walsh and his dance ventist will be heard at 8:00 p. m. The Cinderella orchastra will be on the air at 8:30 p. m. tomorrow, Charles Vespia. director. At 8:00 p. m. on Tuesday will be broadcast a musical program by James King, baritone, Clara King Har-

4:30 p. m.—Weather report.
6:00 p. m.—Jimmy Walsh and his dance orchestra.
7:05 p. m.—Uncle Red." auspices Providence Safety Council.
7:30 p. m.—Weather report.
8:30 p. m.—Wiss Rose Millman and Miss Doreen Rook, two plano recital.
9:00 p. m.—Columbia chain program.
10:00 p. m.—Columbia chain program.
10:30 p. m.—Columbia chain program.
10:30 p. m.—Columbia chain program.
11:55 a. m.—Time signals.
12:30 p. m.—Weather report.
12:35 p. m.—Weather report.
12:35 p. m.—Weather report.
4:00 p. m.—Musical program.
4:00 p. m.—Weather report.
6:30 p. m.—Boston dinner dance.
7:00 p. m.—Jacques Renard and his Cocoanut Grove orchestra.
8:00 p. m.—Program to be announced.
10:00 p. m.—Program to be announced.
10:00 p. m.—Dance music.
WJAR—THE OUTLET COMPANY—375.
Today.

Today

11:55 a. m.—Capitol Theatre symphony concert.

5:27 p. m.—Weather report.
5:30 p. m.—Crosley orchestra.
6:30 p. m.—The Weymouth Post, No. 79,
American Legion band.
7:20 p. m.—Capitol Theatre program.
9:00 p. m.—'Our Government," by David
Lawrence.
9:15 p. m.—Correct time.

Continued on Page Eight.

#### Insist On—

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No battery or trickle charget. Never charged—never discharged. Absolutely noiseless. Develops clear full-toned

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9:00 p. m.—Biltmore market hour.

Thursday.
8:00 p. m.—Mrs. Marian Tetreau, astrologist.

8:15 p. m.—Musical program.



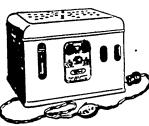
# Put it up to the

to help you pick out the make of Power Unit which will give you most satisfaction from your radio set.

Pick out a fiute solo. Listen to a few turns, trills and cadenzas. Then, leaving every adjustment of your set as it was, switch over to Willard Radio Power.

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Buy on a common-sense basis, just as you buy other merchandise. Compare results. Judge for yourself.



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The Willard "A-B" Power Unit plugs into any lighting socket. It supplies any type of set with the steady "A" and "B" power which you must have for the best radio reception. Turns itself on when you tune in. Turns itself off when you are through. Ask for a dem-

Ask your Lighting Company, your Radio Dealer or your Willard Service Station to demonstrate for you. Let your own ears hear the difference.



#### Today's Programs in Brief

For the convenience of radio fans, the following hourly schedule of broadcasting today is given in brief form. Figures following stations denote wave

length.
The hours are based on Eastern

LOCAL STATIONS

EASTERN STATIONS 9:30—Church, WKBW, 217, 10:20—Church, WFI, 408 10:30—Church, WKBW, 217; WHAM,

10:30—Church, WKBW, 217; WHAM, 278, 278, WGR, 303; WGY, 380; WIP, 508; KDKA, 316; WBZ, 333, 10:50—Church, WABC, 326, 11:00—Church, WRNY, 319; WEEI, 448; WAAM, 349; WBZ, 333, 11:55—Concert, WEAF, 492, 12:30—Missic, WAAM, 349, 1:00—Feature, WJZ, 454; WAAM, 349, 1:00—Feature, WFBL, 258, Church, WEAF, 492, Feature, WEEI, 448, Roxy and his gang, WJZ, 454; KDKA, 316; WBZ, 333, 2.15—Trio, WHAR, 273, 2:30—Sunday school, WOO, 508, Music, WRNY, 309; WAAM, 349, 2:45—Music, WRNY, 309.

Music, WRNY, 309; WAAM, 349.

2:45—Music, WRNY, 309.
Church, WHAR, 273.
3:00—Church, WKRW, 217.
Feature, WAAM, 349.
Talk, WBZ, 333.
Ensemble, WJZ, 454.
Conference, WEAF, 402.
Music, WFBL, 256; WRNY, 309; WOR, 422.
3:15—Oraan, WPG, 273.
3:30—News, KDKA, 316.
Church, WAAM, 349.
Orchestra, WGY, 380.
Music, WJZ, 454; WRNY, 309.
Concert, WHAM, 278.
3:45—Feature, WRNY, 309.
3:55—Church, WJZ, 454.
4:00—Oraan, WGY, 380; KDKA, 316; WHAM, 278.
Lecture, WIP, 508.
Conference, WEAF, 492; WEEL, 448; WTAG, 317.
Music, WFBL, 238; WOR, 422.
4:13—Music, WPG, 273.
4:30—Music, WFBL, 238; WOR, 422.
309.
Church, WFIL, 408

5:00—Feature, WRNY, 309.
Orchestra, WHN, 396; WPG, 273.
Minsic, WHAM, 278.
5:15—Minsic, WPG, 273; WRNY, 309.
5:30—Minsic, WTIC, 535; WEAF, 492; WGY, 386; WGR, 303; WFI, 406; WRNY, 309; WTAG, 517, Vexpers, WLL, 454; WHZ, 333; WHAM, 278; KDKA, 316.
5:35—Minsic, WRNY, 309.
3:38—News, WEEI, 448.
5:45—Minsic, WRNY, 399.
6:00—Organ, WOO, 506.
Orchestra, WHN, 396; KDKA, 316.
Minsic, WFI, 406.
Church, WFBL, 258.
Feature, WRNY, 309.
6:10—News, WEEI, 448.
6:15—Talk, WRNY, 309.
6:20—News, WEEI, 448.
6:30—Talk, WEEI, 448.
6:30—Talk, WEEI, 448.
Feature, WHAM, 276; WJZ, 454.
Band, WEAF, 492; WGY, 366;

## WHAM, 278: WJZ, 454, 454, WHAM, 278: WJZ, 454, Band, WEAP, 402: WGY, 380: WGR, 303, Missic, WFBL, 258: WTIC, 535: WBZ, 303: WTAG, 517, 7100—Ensemble, WHN, 396: WGR, 303, Missic, WMSG, 236: WHAM, 267: WBZ, 333: WABC, 326, Organ, WJZ, 454, 710—Missic, WMSG, 236, 7120—Capitol Theatre program, WFAP, 482: WGY, 280: WTAG, 517, Missic, WMSG, 236.

WFAF, 492; WGY, 280; WTAG, 517, Music, WMSG, 236.
7:30—Ceurch, WOO, 508; WQAO, 395; WFI, 408, Music, WBAL, 285; WMSG, 236; WEEI, 448, Feature, WHAR, 448, Talk, WLZ, 454.
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R:50—Music, WHSG, 236,
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10:15—Talk, WEEL, 448; WGY, 380;
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11:30—Organ, WHN, 306,
11:30—Organ, WHN, 306,

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12:00--Organ, WTMJ, 294.
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1:15--Maric, WOC, 353.
2:00--Rexy and his gang, WJR, 441;
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3:00-- Conference, WOC, 353; WTAM,

2:45 -: I.G.S.C., WFAA, 502.

3:00-- Conference, WOC, 353; WTAM, 190
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3:45-- Feature, WFAA, 500.

4:00-- Music, WTAM, 400; WLW, 428.

4:15-- Orchestra, WTMJ, 294.

5:30-- Music, WMAQ, 448; KNX, 336.

5:30-- Music, WMAQ, 448; WNAQ, 448; WLW, 428; WOC, 353; WSB, 476; WSM, 341; WTAM, 400; KYW, 526.

6:00-- Organ, WTMJ, 294.
Orchestra, WTAM, 400, Music, WJR, 441.

6:15-- Music, WSAI, 428.

6:30-- Talk, KYW, 526.
Drama, WSAI, 361.
Music, WRC, 469.

7:00-- Music, WTAM, 400; WTMJ, 294.
Ensemble, WJR, 441.
Feature, WMAQ, 448.

7:15- Music, WMAQ, 448.

7:15- Music, WMAQ, 448.

7:20-- Capitol Theatre program, WRC, 469; WSM, 341; WSB, 476; WSM, 341; WSB, 476; WSM, 345; WSAI, 426; WMAQ, 448.

7:30-- Orchestra, WTMJ, 294.

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8:15-- Music, WCO, 405; KYW, 526; W.R, 441; WLW, 428; WSAI, 361.

8:30-- Music, WCO, 405; KYW, 526; W.R, 441; WLW, 428; WSAI, 361.

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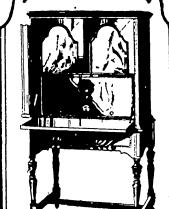
WTAM, 400: WWJ, 375; WFAA, 500.
FRAUIP, KMTR, 526.
9:17-Talk, KYW, 526.
9:30-Music, KGO, 384: KOA, 326: KFI, 469.
10:00-Frauire, KMTR, 526.
10:10-Drama, WSAI, 428.
Music, KMTR, 526.
10:15-Drama, WSAI, 428.
Music, WTMJ, 294: WCCO, 405: WMAQ, 448: KYW, 526: WTAM, 400: WFFA, 500.
Talk, WRC, 469.
10:35-Music, KFI, 469.
10:00-Music, KFI, 469: KNX, 336.
Orchestra, KMTR, 526.
12:00-Frauire, KGO, 384.
Orchestra, WFAA, 500.
Music, KFI, 469; KNX, 336.
1:00-Orchestra, KFI, 469.

Today.

-International Bible Students'

Tuesday.

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WLSI-LINCOLN STUDIOS, INC.-275

Association.
6:30 p. m — I. B. S. A. Bible questions and answers. n.swers.
p. m.—French lecture auspices In-ternational Bible Students' Associa-

tion.

8:00 p. m.—Services from Church of the Serenth Day Adventist.

Monday.

7:00 p. m.—Dreylus string ensemble.

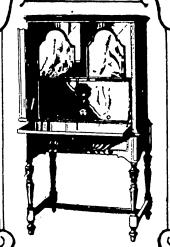
8:30 p. m.—Cinderella orchestfa, Charles Vespia, director.

6:30 p. m.—Guernsey Plaza orchestra.
7:30 p. m.—Studio program.
6:00 p. m.—Recital by James King, haritone, Clara King Hargreaves, contraito and Mildred Watrous, accompanist.
10:00 p. m.—Hotel Biltmore orchestra.
Wednesday.
8:00 p. m.—Musical program.

## United Music Co.

LARGEST

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Price, with Socket-power Unit and 11 R.C.A. Tubes . \$755.00

To-Day EASTERN STATIONS
KUKA—PITTSBURGH—316,
1, m.—Correct time,
1, m.—Church service,
2, m.—Roxy and his gang.

11:00 a. ....
2:00 p. m.—Roxy and his Raup.
4:00 p. m.—Organ recital.
4:45 p. m.—Service from Shadyside Presbyterian Church.
2:00 m.—Symphony orchestra.

OUT OF TOWN STATIONS

Voung's Thanksgiving poem will be read.

Young's Thanksgiving poem will be read.

1 2:30 p. m.—Studio, program.

7:30 p. m.—Ducky Grinshaw, tenor; Miss McConnelly, planist.

8:00 p. m.—Walter Trader's revelers.

Tuesday.

2:30 p. m.—Studio program.

7:30 p. m.—Studio program.

8:00 p. m.—Joe Houlihan's melody boys.

Wednesday.

2:30 p. m.—Studio program.

7:30 p. m.—Studio program.

7:30 p. m.—Studio program.

7:30 p. m.—Studio program.

8:30 p. m.—Studio program.

8:30 p. m.—Feature.

8:30 p. m.—Feature.

8:30 p. m.—Fernest Reddy, tenor soloist, and Miss Gladys Ruck, planist.

Friday.

2:30 p. m.—Studio program.

3:30 p. m.—Studio program.

8:30 p. m.—Studio program.

8:15 p.m.—Collier's radio hour. 9:13 p.m.—Musical concert. 10:15 p.m.—Don Amaizo, the wizard.

WAAM—NEWARK—349.

11:00 a. m.—Service from First Presbyterian Church.

12:30 p. m.—Olga Martin and Dora Fanti, piano duets.

1:00 p. m.—Price and Price, patter songs.

1:30 p. m.—Organ recital.

2:30 p. m.—Blancho Mauclair, French songs.

8:15 p. m.—Musical program.

Friday.

10:00 a. m.—Siudio program.
6:30 p. m.—Mother Hubbard.
7:00 p. m.—I. B. S. A. hymns.
7:05 p. m.—I. B. S. A. hymns.
7:05 p. m.—I. B. S. A. dialogue.
8:00 p. m.—WLSI studio hour
9:00 p. m.—WLSI studio hour
9:00 p. m.—Dreyfus string ensemble.
9:00 p. m.—Dreyfus string ensemble.
9:00 p. m.—Hotel Dietfus dance orchestra.
1:00 p. m.—Hotel Biltmore orchestra.
1:00 p. m.—Nondeast direct from Narragansett Hotel ballroom.
WCOT—CONNS OLYMPIA—223. WARC-NEW YORK-326. 10:50 a. m.—Service from West End Pres-byterian Church. 7:00 p. m.—Feature. 8:00 p. m.—Service from Flith Avenue Presbyterian Church. Today.

1:30 p. m.—Wailana troupe.

2:00 p. m.—Special request. Rev. Father
Young's Thanksgiving poem will be read.

WBAL-BALTIMORE-286. 7:30 p. m.—Concert orchestra. 8:50 p. m.—Musical expositio

Tonight 7:30 P.M.

LaTouraine Coffee Concert Orchestra

Courtesy of W.S. Quinby Company, whose slogan is

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## KOLSTER **RADIO**

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# THE NEW

Electric Radio

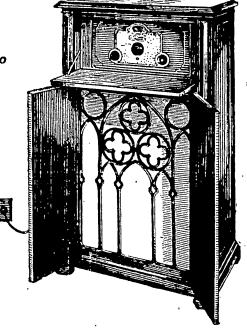
No Batteries No Chemicals No Chargers A Truly Electric Radio

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If you are interested in an all-electric radio be sure to come in: and see the new Freed-Eisemann. Here is a TRULY ELECTRIC RADIO! Six tubes, one dial control, marvelous volume and tonal qualities. Extreme selectivity and

flawless reception on both local and distant stations. Let us

demonstrate this wonderful Electric Radio in your home

POTDICAL FAIRDMENT LLLCYNICAL DQUIFTYLIN · MAZDA LAMPS · FIXTURES · APPLIANCES · CONTRACTING · . 45 WASHINGTON ST. INCORPORATED 1892 PROVIDENCE, R.I.

2:15 p. m.—Oratorio, "The Last Judg-WBSO-BABSON PARK-384.

WBZ-SPRINGFIELD-333. a. m.—Service from South Congrega-tional Church.
p. m.—Roxy and his gang.
p. m.—'10 Years After," by Henry J.
Ryan. Ryan.
3:30 p. m.—News flashes.
5:30 p. m.—Radio vespers.
6:30 p. m.—Musical program.

7.00 p. m.—Blue and gold hour.
7:45 p. m.—News flashes
7.50 p. m.—Ensemble
8:15 p. m.—Collier's radio hour.
9.15 p. m.—String quartet.
10:00 p. m.—Correct time.
10:00 p. m.—News flashes.
10:05 p. m.—Musical program.
10:35 p. m.—Correct time.

WEAF—NEW YORK—492.

11:00 a. m.—Capitol symphony concert.

2:00 p. m.—Interdenominational church services under the direction of the Continued on Page Nine.

### FIRST RADIO STORE IN PROVIDENCE

Buy Your Grebe from This DEPENDABLE Store, Easy Terms if Desired

RIELECTIVIPIEST PADIO STORE IN PROVIDENCE AVENT CO · MAZDA LAMPS · FIXTURES : APPLIANCES · CONTRACTING · 45 WASHINGTON ST. INCORPORATED 1892 PROVIDENCE, R.I.



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From the deep throbbing bass of the pipes to the delicate notes of the reeds, you get the pulsating harmonies of the organ naturally with a Grebe Synchrophase Seven and Natural Speaker. Both high and low notes are sharply defined-none are accented or blurred.

> To be enjoyable, organ music must reach you as a Grebe gets itwith lifelike richness and resonance.

Such superior reception of Grebe receivers is accountable to one thing: principles of design and workmanship, gained from 18 years' experience in building quality radio apparatus.

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39 PLAINFIELD ST.



(Distributors) 140 BROADWAY,

LOCAL STATIONS

10.30—Church, WLS1, 275.
11 00—Church, WEAN, 319.
11:55—Concert, WGAN, 319.
1:30—Concert, WGAN, 319.
1:30—Concert, WGOT, 225.
5:00—Music, WEAN, 319.
5:00—Music, WEAN, 319.
5:00—Music, WEAN, 319.
5:30—Music, WEAN, 319.
5:30—Music, WEAN, 319.
5:30—Music, WEAN, 319.
Music, WIAR, 375.
6:30—Music, WEAN, 319.
Lecture, WLS1, 275.
7:20—Concert, WJAR, 375.
8:00—Church, WLS1, 275.
9:00—Talk, WJAR, 375.
Music, WEAN, 319.
9:15—Orchestra, WJAR, 375.
9:30—Music, WEAN, 319.
10:100—Music, WEAN, 319.

RADIO PROGRAMS

Continued from Page Seven.

9:15 p. m.-Robert W. Powers Orchestra.

9:15 p. m.—Robert W. Powers Orchestra.

Monday.

1:05 p. m.—Studio program.

1:30 p. m.—Weather report.

1:35 p. m.—Centinuation of studio program.

6:45 p. m.—Earl Shean's orchestra.

7:25 p. m.—Weather report.

7:20 p. m.—Santa Claus will talk to the children direct from Happyland, preceded by "The Musik Taxkalog Lady." Miss Mahel Woolsey.

8:10 p. m.—Musical program.

8:20 p. m.—Correct time.

8:30 p. m.—Correct time.

8:30 p. m.—Correct time.

8:30 p. m.—General Motors family party.

Tuesday.

1:05 p. m.—Studio program.

1:05 p. m.—Studio program. 1:30 p. m.—Weather report.

Marshall & Co. R-A-D-I-O Exclusively

94 DORRANCE STREET Opp Narragansett Hotel A CONTRACTOR OF THE PARTY OF TH

M. STEINERT & SONS Steinert Bldg., 495 Westminster St. RECOMMUND WILLARD 'A-B" Power Unit

Convenient Terms If Desired A New Thrill in Radio

> Come in and HEAR

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the difference when the Willard "A-B" Power Unit is used. WILFRED ROY CO.

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Difference

Providence, R. I.

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FULLER BATTERY CO.

1:35 p. m.—Continuation of a studio program.

7:30 p. m.—Honolulu quintet under the direction of Artle McKenzie.

8:00 p. m.—Weather report.

8:05 p. m.—Eoy Partington, tenor soloist.

8:30 p. m.—Safety talk sponsored by the Providence Safety Council.

8:35 p. m.—Musical program by Fred G.

Deltz, bass.

9:00 p. m.—Correct time.

9:00 p. m.—Evercady hour.

10:00 p. m.—Auction bridge game.

Wednesday.

10:00 a. m.—Housewives' Radio Exchange.
a department conducted by Mrs. Wood
on matters of household interest.
Questions submitted will be answered
by radio.

11:00 a. m.—Betty Crocker home service

m.--Studio program. 1:05 p. m.—Studio program.
1:30 p. m.—Weather report.
7:30 p. m.—Weather report.
Van and Schenek.
8:00 p. m.—National musicalities.
8:30 p. m.—Musical program.
9:00 p. m.—Correct time.
9:00 p. m.—Cortinuation of musical program.

9:00 p. m.—Continuation of money program, 9:30 p. m.—Goodrich Orchestra and quar-Thursday. A. m.—Housewives' Radio Exchange, a department conducted by Mrs. Wood on matters of household interest Questions submitted will be answered

1:30-p. m.—Continuation.
1:35 p. m.—Weather report.
7:15 p. m.—Weather report.
7:20 p. m.—F. Stewart Stranahan, Jr., of the Title Guarantee Company of Rhode Island will give one of a series of Human Interest Talks.
7:20 p. m.—Coward comfort hour. of Human Interest Talks,
7:30 p. m.—Coward comfort hour.
8:00 p. m.—Pearl trio.
8:25 p. m.—Emma Bosquet, contralto.
9:00 p. m.—Correct time.
9:00 p. m.—Cilcquot Club Eskimos.

Friday. Friday.

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

a. m.—Betty Crocker home service talk.

a. m.—nec., talk, p. m.—Studio program, p. m.—Continuation of studio program.

1.35 p. m.—Continuation of studio program.
2:30 p. m.—Dedication of tablet in the Washington Monument by the State of New Mexico, direct from Washington. Calvin Coolinge, principal speaker: music furnished by United States Marine Band.
7:15 p. m.—'All American Football Team' by Grantland Rice.
7:30 p. n.—'Musik Tawkalog' by Mabel Woolsey.
7:55 p. m.—Weather report.
8:00 p. m.—Pairlawn entertainers.

The Sensation of the Radio Show **Immediate** 

DELIVERY

**RADIOLA** 

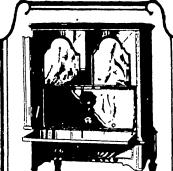
17 A 6-tube R C A receiverall electric-no batteries or battery substitutes - one dial tuner-Less tubes and speaker.

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A limited number now ready for immediate delivery EMPIRE RADIO CO.

23 EMPIRE ST.

9:00 p. m.—Correct time.
9:00 p. m.—Whittall Angle-Persians.
9:30 p. m.—Automobile Club of Rhode Island talk.
9:35 p. m.—Hawalian Island four.
10:00 p. m.—Feature.
Saturday.
1:05 p. m.—Al Williams and his orchestra.
1:30 p. m.—Weather report.
1:35 p. m.—Continuation of Al Williams orchestra.
7:45 p. m.—Continuation of Al Williams orchestra.
7:50 p. m.—Peature.
8:00 p. m.—Feature.
8:00 p. m.—Peature.
10 p. m.—Read Hour' featuring Walter Damrosch conducting the New York Symphony orchestra.



design and craftsmanship.

WOO-PHILADELPHIA-508

WPG-ATLANTIC CITY-273.

3:15 p. m.—Organ recital. 4:15 p. m.—Community vocal and instru

WRNY-NEW YORK-30f

WTAG-WORCESTER-517

4:00, p. m.—Men's conference from Bedford Branch.

Branch.
5:30 p. m.—Crosley's orchestra.
6:30 p. m.—Weymouth Band.
7:20 p. m.—Capitol Theatre program.
9:00 p. m.—"Our Government," by David Lawrence.
9:15 p. m.—News bulletins.

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cal unit for three-tube sets. An elim-

Three medium 45-volt patterles should

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mental recital.

5:15 p. m.—Community vocal and in mental recital.

5:15 p. m.—Twilight concert hour.

9:00 p. m.—News flashes.

9:10 p. m.—Goncert orchestra.

10:00 p. m.—Sunday evening musical.

to one in each city, requiring licenses

Soviet Russia has 750,000 licensed

Cuba has 45 amateur radio broad-casting stations and only two others.

The aniateurs use broadcast wave

Russia has instituted a number of

public radio receiving stations, through which concerts are heard by the peo-

ple. Mexico has experimented with the

wireless operators.

same idea.

"Publicity State's Life-Blood," Argue Its Spokesmen

Efforts of United States Senators

(By the Associated Press.) Florida wants a place in the broad

licity is the life blood of the peninsula empire of the South." the Florida State Chamber of Commerce and the municipalities of St. Petersburg and Clearwaer have enlisted the efforts of United States Senators Duncan U. Fletcher and Park Trammell in a campaign to obtain radio parity with other States.

The recent appearance of a delegation before the Federal Radio Commisclared to be the opening gun in a fight for greater transmitting power. Leaders of the delegation, in addition to the two Florida Senators, were Herman Dann of St. Petersburg, President of the State Chamber of Commerce, and J. H. Baskin, Mayor of Clearwater. The commission granted Station WFLA a frequency of 590 kilocycles and an increase in power from 500 to 750 watts for a period of 60 days. This action annulled the commission's order that WFLA share a channel with Sta-tion WDBO at Orlando, Fla. The Clearwater station and a new \$40,000 broadrasting studio at St. Petersburg now are mintly operated, the St. Petersburg studio being assigned the call letters WSUN. Both are municipally owned

"The tourist business is one of Florida's greatest assets and broadcasting of the State's attractions is an invaluable aid in promoting that business." said Mayor Baskin.

"The combined power of Florida broadcasting stations now in operation is 5660 watts. These stations serve a local population of 1,500,000. The power allotted to other sections of the country is considerably in excess of this figure in comparison to population and area, notably the Chicago and Califor-"WFLA has consistently served the coated, it is a sure sign that your little

territory surrounding the station with one' stomach, liver and bowels need information of value to commerce and a gentle, thorough cleansing at once. navigation; notably the broadcasting When peevish, cross, listless, pale, of market reports, weather reports, doesn't sleep, doesn't eat or act natustorm warnings and time signals. This rally, or is feverish, stomach sour, station has been used in times of great breath bad; as stomach-ache, sore stress, notably the 1926 hurricane sea- : throat, diarrhoea, full of cold, give a son, when it was the only station in teaspoonful of "California Fig Syrup." the storm area which could be heard and in a few hours all the foul, con-and which transmitted accurate infor-stipated waste, undigested food and mation to the outside world. It is the sour bile gently mayes out of the little only station consistently serving the bowels without griping, and you have English speaking people of Central a well, playful child again.

Tons of Tram Tickets.

than 1,600,000,000 tickets. dighing 725 tons, are salued annual— Ask your druggist for a bottle of by the London General Omnibus "California Fig Syrup," which has mpany. Each night 10 motor-vans directions for babies, children of all weighing 725 tons, are sslued annualbring the ticket boxes of the 9000 con-ductors from 47 garages. No less than bottle. Beware of counterfeits sold here. 4.500.000 tickets are distributed daily. To be sure you get the genuine, ask to kind with contempt.

## RADIO PROGRAMS

Greater New York Federation of Churches. Churches.

3:00 p. m. Young People's Conference under the direction of the Greater New York Federation of Churches.

4.00 p. m.—Men's Conference from the Bedford Branch Y. M. C. A.

5:30 p. m.—Crosley orchestra.

6:30 p. m.—Crosley orchestra.

6:30 p. m.—Capitol Theatre program.

9:00 p. m.—Capitol Theatre program.

9:00 p. m.—Curchestra.

9:15 p. m.—Correct time.

9:15 p. m.—Atwater Kent hour.

10:15 p. m.—Biblical drama.

11.00 a. m.—Service from Old South Church.
2.00 p. m.—Sager hour of hospitality.
4.00 p. m.—Dr. S. Parkes Cadman-Bedford
Branch Y. M. C. A.
5:38 p. m.—Bulletin from Boston Automobile Club.
5:40 p. m.—Five minutes of flying.
5:50 p. m.—Radio chat.

WEEI-BOSTON-118.

p. m.—Radio chat.
p. m.—News dispatches.
p. m.—Newspaper sidelights.
p. m.—Musical program. m.—Concert orchestra. m.—Musical program.

9:15 p. m.—Correct time, 9:15 p. m.—Atwater Kent hour, 10:15 p. m.—Your Government," by David Lawrence, 10:30 p. m.—Cruising the air with Bill Hartion before the Federal Radio Commission to appeal for a better channel for some station WFLA at Clearwater was destant on the commission of the commission of the commission of the Boston Bruins-New York Rangers hockey

WFBL-SYRACUSE-258. b. m.-(International Bible Students' rogram.

m.-Columbia chain program,
m.-Concert band,
m.-Service from Delaware Baptist

6:30 p. m. · Dinner concert. 9:00 p. m. · Columbia chain program, 9:30 p. m. · - American singers. 0:00 p. m. · - Columbia chain intimate hour.

i. m.–-Service from Arch Street Meth-odist Episcopal Church. 4:30 p. m .- Service under the auspices of

Look at the tongue mother!

You needn't coax sick children to take this harmless, "fruit" laxative; they love its delicious taste, and it al-

ways makes them feel splendid.

STEWART-WARNER

AT last, here are
Two Reproduction Bring You Every Note in the Turn up the volume Reproduction Musical Scale—the Full, Rich, ume! These speak-

Vibrant Bass, as Well as the

Reproducers -

the Church Frue....
phia.

5.30 p. m.—Crosley orchestra.

2.15 p. m.—Correct time.

9.15 p. m.—Atwater Kent radio hour.

16:15 p. m.—Biblical drama.

WGBS—NEW YORK—349
8:00 p. m.—String ensemble.
8:30 p. m.—Dinner to Hon. James J. Walke
tendered by members of Friars' Clui WGR-BUFFALO-303 a. m.-Service from W Presbyterian Church.

5:30 p. m.—Crosley orchestra.
6:30 p. m.—American Legion band.
7:45 p. m.—Service from the Central Presbyterian Church.
7:45 p. m.—Atwater Kent hour.

WGY—SCHENECTADY—380

10:45 a. m.—Service from First Church
Christ. Scientist.
3:30 p. m.—Symphony orchestra.
4:00 p. m.—Organ recital.
5:30 p. m.—Grosley orchestra.
6:30 p. m.—Grosley orchestra.
7:20 p. m.—Capitol Theatre program.
7:00 p. m.—Talk, "Our Government,"
David Lawrence.
9:15 p. m.—Correct time.
9:15 p. m.—Atwater Kent hour.
10:15 p. m.—Biblical drama.

-WHAM-ROCHESTER-278 10:30 a. m.—Morning church service. 3:30 p. m.—Theatre concert. p. m.—Organ recital. p. m.—Musical mile p. m.—Musica: .... Truelove MacKown.

Truelove MacKown.

5:30 p. m.—National radio vespers.

6:30 p. m.—Preside forum.

7:00 p. m.—Dinner concert.

8:00 p. m.—String quartet.

9:15 p. m.—String quartet.

9:15 p. m.—Worley singers and Utica juble singers.

10:00 p. m.—Correct time.

10:00 p. m.—Morley singers and Utica juble singers.

10:15 p. m.—Worley singers and Utica juble singers.

WHAR—ATLANTIC CITY—278
10(4) a. m.—Service from Chelsea Baptist
Church.
2:15 p. m.— Recital by trio.
2:45 p. m.—Central Methodist Church service.

Cross, Feverish

9.00 p. m.—Musical program. 9:30 p. m.—American singers, 10:00 p. m.—Columbia intimate hour

WIP-PHILADELPHIA-508 10:45 a. m.—Service from Holy Trinity Church. 4:00 p. m.—Lecture by Harry Holmes o New York. 2:30 p. m.—Sunday school.
6:00 p. m.—Organ recital.
7:30 p. m.—Services from Bethany Presbyterian Church. 10:00 p. m .-- Symphony Orchestra.

w.JZ.—NEW LUKE—10.2.
p. m.—Feature.
p. m.—Roxy and his gang.
p. m.—Jospe Woodwind ensemble.
p. m.—Devora Nadworney, contralto 3:30 p

WJZ-NEW YORK-454

3:30 p. m.—Devora Nadworney, contralto and string trio.
3:55 p. m.—Service from St. George Church.
5:30 p. m.—National radio vespers.
6:30 p. m.—Pesture.
7:00 p. m.—Correct time.
7:00 p. m.—Organ vespers.
7:30 p. m.—Musical literature.
8:15 p. m.—Collier's radio hour.
9:15 p. m.—Vollier's radio hour.
9:15 p. m.—Vibrant melodies with celeste, harp and flute.
9:30 p. m.—Louilse Hemming, contralto, with muted trombone.
9:45 p. m.—Utica Jubilee Singers.
10:00 p. m.—Correct time.
10:00 p. m.—Correct time.
10:00 p. m.—Utica Jubilee Singers.
10:15 p. m.—Utica Jubilee Singers.

WKBW-BUFFALO-217. . m.-Episcopal service from studio.

studio.

10:30 a. m.—Public worship, chapel of Churchill Tabernacle.

3:00 p. m.—Sermon by Rev. James T. Haugh.

7:00 p. m.—Evangelistic service.

10:15 p. m.—Back home gospel melody hour from the studio. WMSG-NEW YORK-236. 7:00 p. m.—Mary May Mider, pianist. 7:10 p. m.—Blanquita Alverez, piano ac 7:20 p. m.—Mary May Mider, pianist. 7:30 p. m.—Blanquita Alverez, piano ac

WTIC—HARTFORD—533. 4:30 p. m.—Howard radio hour. 5:30 p. m.—Crosley orchestra. 6:30 p. m.—American Legion Band. cordion.
7:40 p. m.—Aaron Goldberg, violinist.
7:50 p. m.—George Allen, baritone.
8:00 p. m.—Frances Friedman, contraito.
8:10 p. m.—Emil Schneider, planist.
8:20 p. m.—Lyra Singing Society.
8:30 p. m.—Phyllis De Rosa, coprano.
8:40 p. m.—Lyric ensemble.
8:50 p. m.—German folk songs. inator for such an outfit is a luxuer

WOR-NEWARK-122.

3:00 p. m. Music d program.

4:00 p. m.-Conzert band.

7:45 p. m.-Sunday evening musical.

8:45 p. m.-Randall Hargreaves, baritone.

densers, their life may frequently bo stretched to nine months or perhaps

ANSWERS TO RADIO TEST 1. This is difficult to say because are many freak and experimenta types. One manufacturer recently displayed 30 tubes ranging all the way from the dry-cell 199 to the 20-kilo-

watt, water-cooled type which is used in broadcasting. 2. Because it is not possible to ob tain a Canadian patent on a set unless 50 per cent. of it is manufactured in the Dominion.

3. Radio. That side of the set attends to the distance.
4. Eighteen million, according to recent estimate.

11:00 a. m.—St. Matthew's Lutheran Church 2:30 p. m.—Chester Hall, tenor. 2:45 p. m.—Ralph Rose, violinist, 3:00 p. m.—Florence Stern, soprano. 3:30 p. m.—Leonard E. Allen, tenor. 3:45 p. m.—Monticello players, 4:30 p. m.—Salvatore De Cicco, saxophono quartet. Because stage planos are tuned to year. concert pitch which is more brilliant 4:30 p. m.—Salvatore De Cicco, saxophone quartat.
5:30 p. m.—Mme. Florence Wessell and assisting artists.
5:15 p. m.—Emily Roosevelt, soprano.
5:30 p. m.—Corinne Erb. contralto.
5:35 p. m.—Dorothy Hoyle, violinist.
5:45 p. m.—Helen O'Shea, soprano.
6:00 p. m.—"Little Journeys Into Great American Industries."
6:15 p. m.—Dr. Arthur K. Kuhn, president of American Branch of International Law Association. than the pitch used in the home piano and for broadcasting studios. A piano tuned to the usual pitch would not sound particularly well to a theatre or concert hall audience.

\$3000

by Saving

\$15 a Month

Vagrant Waves of Interest to Fans

A power amplifier will give increased olume and minimum distortion.

Prohibition of broadcasting exists in Roumania, Bulgaria and China. Dust accumulates moisture in a se and causes a drain on the batteries.

The receiver will give better results

Only one broadcasting station is allowed in each city of the United Kingdom.' Twenty are operating now.

Let's Get Started

You say: "Winter is no time to start

We say: "Winter is the best time to get

Come in and talk it over with us. Why

the preliminaries all arranged so that you

may be ready for an early start in the

not take out a monthly payment BOOK

NOW with a home of your own in mind?

Sweden limits broadcasting stations

#### Thomas H. Early COMPANY

283 Thurber Ave. Mason's Supplies

Electric Goods Auto Supplies: Sheet Rock Window Glass Set Storm Door Combinations Stove and Furnace Pipe Oak and Chestnut Wood Dry and well seasoned Lowe Bros. high standard

Paints Berry's quality Varnish

LOW PRICES

PROMPT DELIVERY

to any part of the city Phone BRoad 0401-0102

Call personally for full particulars. OLD COLONY CO-OPERATIVE BANK

building a home."

58 WEYBOSSET STREET-OLD COLONY HOUSE

MOTHER! Charge Patrons May Buy Now Look at Child's Tongue if Sick,

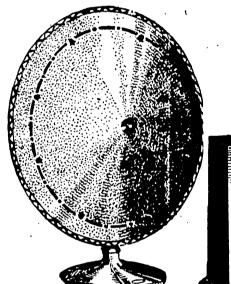
Pay in January

# The Dutlet Community

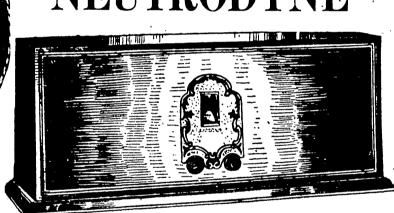
On Sale in Our Radio Store-Fifth Floor-Use Garnet Street Elevators

## A TIMELY CHRISTMAS SALE

"Do Not Miss the Wonderful Entertainment Being Broadcast Now" The New 7 TUBE—Shielded—Single Dial



"FLEETWOOD" **NEUTRODYNE** 



This Large Set Measures 10 inches high

24 inches long 11 inches deep The Cabinet is of highly polished gen-

uine mahogany.

The Year's Sensation Licensed under patents of Radio Corporation of America—Hazeltine Neutro-dyne Corporation — Latour — General

Electric-Westinghouse Co.'s.

Weekly

After 1st Payment

to Buy

Thousands enjoyed the Thanksgiving holiday broadcasting. Buy this wonderful radio and hear the marvelous programs now on the air. Dont miss any more of the world's greatest and most inexpensive entertainment.

What The Name "FLEETWOOD" Stands For In The Radio World!

-The name Fleetwood stands for precision and performance. -- It stands for finest radio products. It is a prom-

ise of many joys and no worries. -This set is made in a factory that occupies 90,000 feet of floor space. Here they have been making radio and telephone apparatus for over 30 years. Thousands of the sets made in this factory are giving excellent service throughout the United 7 Tubes! Shielded! Single Dial! (Illuminated)

-- Last year we sold many hundreds of 5 Tube Three Dial Sets. The set we offer this year is not a 5 tube set nor even a 6 tube set, but a powerful 7 tube Shielded, Single Dial Neutrodyne Set, much larger in size, and is as far ahead of the average 6 tube set as the latter is conceded to be ahead of a 5 tube set.

High Quality Accessories You Get with This Set for Only \$79.50 Complete

Latest 7-tube Fleetwood Neutrodyne Set 1 R. F. I. Large Cone Speaker 7 Genuine Cunningham CX301 A Tubes 3 45-volt B Batteries

Battery Complete Aerial Equipment

C Battery Our Regular Price for This Outfit Would Be \$145!

Westinghouse Large Rubber Cased Storage

Entire outfit guaranteed by the manufacturers and by the Outlet Company.

## Electrified with Philippe AB Socket Power

**Operates** From House Current

Everyone Has Heard of the Philco Socket Power

The switch on the Fleetwood radio set controls everything. It is as easy as turning on your electric light. This Philco Socket Power alone sells at \$59.50.

-When you buy one of these complete outfits at \$129 you are paving only \$49.50 more for the table model set and you receive a \$46 cabinet, a \$59.50 Phileo instead of the battery equipment and you receive also a \$4.50 Power Tube instead of tne regular CX301A Cunningham Tube.

There Are More Philco Socket Powers in Use Than Any Other Single Type of Socket Power - Over 500,000 of Them Were Placed in Use in a Single Year.



In this highly figured Walnut finish Console Cabinet

This Is a Genuine Caswell Runyan Cabinet



Broadcasting Station W J A R

#### Stewart-Warner Radio is licensed only for radio amateur, experimental and broadcast reception Reproducer, Model pact. Of bronzed mesh grilles. Drum diameter, 9 inches. Complete with cord

same remarkable clarity and fidelity

that you hear the middle and upper

These newSTEWART-WARNER

Reproducers will acquaint you with

the full, vibrant bass voices that round

out male quartets . . . with the bass

tones and drum beats that are the very

foundation of orchestral music.

A two Reproduc-

ers that bring you

bass notes with the

\$17.50



the rich, resonant Middle and Upper Tones!



Stewart Warner receivers range in price from \$80.00 to \$255.00. There is a your purse. Model 523 (illustrated) sells, without \$80.00

Constructed of brouzed metal, wish silk mash grille,

front and back. Drum di-ameter, 1134 inches; com-

\$25.00

ers will "take it!"

No matter what

make of set you

own, attach one of these STEWART-

WARNER Reproducers, and acquire

a new conception of the real, true

Hear them at one of our Blue Rib-

bon Dealer's today. You'll be aston-

ished that Reproducers of such in-

spiring tone and beauty should sell

beauty of broadcast music.

at such moderate prices!

Stewart-Warner Radio Distributor Gaspee 0843 Providence, R. I. 110 Broadway



Meant

Simply this:-

Not very long ago the yearly use of Vicks for all cold troubles, was 17 million jars. Now it has grown to over 21 million. It means, too, that Vicks not only finds its way back in a home where once it has been tried, but also into new homes.

From 17 to 21—four million more jars used yearly still further means that users find it does relieve cold troubles - often overnight.



## **WJAR TO RETURN**

Local Station Put Back to

Possible DX Listening.—in All. disparity in power—one using high power and the other using extremely

WJAR, broadcasting station of the Outlet Company of Providence, will re- plished as easily as it is set forth is turn to its old frequency, 620 kilocycles (483.6 metres), Thursday, Announcement to this effect was made yesterday by an official of the company, in charge of broadcasting.

minimized.

Whether the task will be accom-

doubtful. In making the announce-ment, the commission said that "the

a very good reason why it should be

moved to its old or a better frequency,

the commission will require it to abide

these cleared channels it will thus be possible for rural and remote listen-

rs to pick up stations in all sections

of the country. Listeners with a pe-culiar taste for DX will also find the

have adequate power to deliver a signal

in the East under good reception con-

Tex., respectively.

San Francisco can be heard for three

While in Your Possession

68 Exchange Place

**Anthracite Coal** 

Equal to any sold in Provi-

dence and at \$1.00 per ton less. White Ash Egg, \$15.25; Chestnut, \$15.50; Stove,

\$15.75 per ton; Lehigh Egg, \$16; Chestnut, \$16.25; Stove,

\$16.50; Pea, \$13; delivered in your cellar. All carefully screened. Why pay more?

Bowen Coal Co.

86 WEYBOSSET ST.

Studiey Bldg. Gaspee 4378

GARAGE

Space in modern fire-proof garage. Fox Point, near Merchant & Miners Trans. dock. and Point St bridge. Service to trucks a specialty. Will make alterations to suit fleet owners.

PHONE DEXTER 0866 OR

DEXTER 5193

Providence

Pennsylvania

Gaspee 2405

Anthracite

by the assignment.

of asking for hearings.

However, this new plan is said to represent the commission's interpretation ordering about 75 stations to change heir frequencies or time divisions by Dec. 1, in order to clear 25 channels for of its responsibility for providing the great listening public of America with its investment of many millions in

There are 46 channels in the entire There are 46 channels in the entire band, five of them exclusively Canadar radio receivers, an opportunity to use ian, leaving 11 still to be cleared. This, the commission plans will be accomised the commission plans will be accomised to th the commission plans, will be accom-plished by co-operation between stations before Jan. 1, or through hearings beginning that date, precedent to the granting of new licenses on those

#### that two other local stations are to undergo changes of frequency Dec. 1, these stations—WEAN of the Shepard Stores and WLSI of the Lincoln Studios, Inc .- have not been apprised of the TO ABOLISH QRM fact, according to attaches of both studios. Neither station has received orders to change and until such instructions are forthcoming from the Radio Commission, both will continue to broadcast on present frequencies. In clearing the 25 channels, the com-

Commission. However, Finds mission has so lined up these stations that no more than two or three are

Advisors Inexperienced

broadcasting on a single frequency at the same time. Where there are two the same time. Where there are two using the same frequency at the same time, they are practically sparated by the width of the continent and great so the chance of their interfering is

(By the Associated Press.) Radio "experts" in all parts of the country bombard the Federal Radio stations adversely affected in some in- | Commission with letters demanding imstances must be martyrs to the cause mediate clearance of the air channels of better radio." Many of the stations and offering "permanent solutions" of will probably not view the matter in the broadcasting problem. Members of the same light. It is understood a few thave already expressed their intention the suggestions and criticisms come of saling for hooseless. these suggestions and criticisms come chiefly from critics who have little understanding of the broadcasting situ-

ation.
"The process of clearing channels is one of selective progress not for arbitrary rulings," states the commission.
"As the stations improve their programs and mechanical apparatus for good transmission, the roads are being cleared for them and in the interest of the audiences who want the best service. The commission is looking forward to the time when the listener, on any night of good reception, can hear broad-casting stations from the Atlantic to The newly designated band includes important stations scattered throughout the entire United States. Over the Pacific without interference on

> "There are, however, many stations which are rendering valuable service will be little or no interference within normal service ranges."

blanket reception of near-by hearers.

heard when two 500-watt stations in New York city are off. And Porto Rico. Iar dilemma. It may improve service which shares Louisville's channel, will to fisteners 20 to 100 miles from the a long distance Southern test station, cause interference two miles the Kentucky broadcaster has away and howis 1000 miles distant. The osed down.

Four cleared channels have been proided for four high-powered New York

balancing of one set of disadvantages
against another inevitably results in a
degree of disastisfaction."

cycles (468.5 metres) and 5000 watts order to secure for this 5000-watt power, transmitter a cleared channel across WMAQ. Chicago, dividing time with

transmitter a cleared channel across the continent.

Under the new plan, it is hoped.
Providence listeners will be enabled to reach out greater distances than ever before. Some of the stations to be shifted, which they will be likely to one of the stations to be shifted, which they will be likely to one of the stations to be shifted.

O., on 700 kilocycles (428.3 metres) and 5000 and 500 watts power. WOR, Newark, N. J., on 710 kilocycles (422.3 metres) and 5000 watts power.
WLIB, Chicago, dividing time with

VGN, Chicago, on 720 kilocycles (416.4 metres) and 15.000 watts power:

WEAR, Cleveland, O., dividing time
with WTAM, Cleveland; on 750 kilo-

WTAM, Cleveland, O., dividing time with WEAR, Cleveland, on 750 kilo-cycles (399.8 metres) and 3500 watts

No additional security or endorsers required. Strictly confidential — one day service.

AUTO OWNERS LOAN CO.

WASH and WAAP, both of Chicago, on 770 kilocycles (389.4 metres) and 5000 watta power.

WGY, Schenectady, N. Y., on 790 kilocycles (379.5 metres) and 50,000 watts power.

WCBD, Chicago, dividing time with WLS, Chicago, on 870 kilocycles (344.8 metres) and 5000 watts power.

WKAQ, San Juan, P. R., on 930 kilo-cycles (322.4 metres) and 500 watts

KFAB, Lincoln, Neb., dividing time with KOIL, Council Bluffs, Ia., on 940 kilocycles (319 metres) and 5000 watts

power. KDKA, East Pittsburgh, Pa., on 950

with WBOQ, New York City, on 970 kilocycles (309.1 metres) and 5000 watts power (to 6 p. m.) and 2500 watts power (after 6 p. m.)
WHT, Chicago, dividing time with WIBO, Chicago and WHAZ, Troy, N. Y., on 980 kilocycles (305.9 metres) and

KNOX, St. Louis, Mo., on 1000 kilo-cycles (300 metres) and 5000 watts

That of Ground. A point to remember in constructing

set is that the aerial connection to a uning coil always should be higher than the ground connection. This is just an evidence of the familiar analogy between electricity and water.

There is a flow of electrical energy from the aerial to the ground, and this point must be considered in handling aerial and ground connections in the set.

Obtaining Selectivity.

the antenna at right angles to the aerial

of the broadcaster and use a wave trap sistance across the secondary of the If this does not help, try a vertical antenna. It may be necessary to com-pletely shield the receiver, batteries and all wires leading to the set except the antenna wire, in order to stop the pick-

first transformer, or again across the loudspeaker terminals. The former is preferable, since the sooner in the reantenna wire, in order to stop the pick-up of energy except where it is desired in the antenna.

able variable resistance should be one with a wide range of resistance, say from 100 ohms or less to a 1,000,000 or more ohms. The device should be noise-less in operation, and campble of hold-Volume control in the receiver may ing any adjustment over a long period be effective in many ways, although so as not to introduce changes in the the simplest is to place a variable redesired volume setting.



The whole world knows Aspirin as an effective antidote for pain. But it's just as important to know that there is only one genuine Bayer Aspirin. The name Bayer is on every tablet, and on the box. If it says Bayer, it's genuine; and if it doesn't, it is not! Headaches are dispelled by Bayer Aspirin. So are colds, and the pain that goes with them; even neuralgia, neuritis, and rheumatism promptly relieved. Get Bayer-at any drugstore-

#### Physicians prescribe Bayer Aspirin; it does NOT affect the heart

#### ANDERSON STEEL GARAGES



x18'8" Claphoard \$299 Erected ncluding

## A BIT OF COMMON SENSE

There are many steel garages on the market today selling at a price much higher than an Anderson. Is it necessary to pay that much? Due to increased production and the big demand for the Anderson Steel Garage, these low prices are made possible.

We ask you to visit our exhibit and see for yourself the superior construction of these buildings, notice the gauge and kind of metal we use, how our gables are made, and the manner in which the building is assembled. Compare it with any other steel garage you

We make your scale drawings and obtain your building permit free

PAYMENTS JUST LIKE RENT

A Small Deposit Down

ANDERSON SHEET METAL COMPANY 168-170 Carpenter St. Gaspee 0477 Providence, R. I.

# your car needs this Silver Lining

Put a Protectahood under the hood and notice how quickly your engine will start in cold weather. When the heat reaches the proper driving temperature, notice that it stays at that temperature. You don't have to pull the choke for fifteen or twenty minutes while driving. Nor do you have to pull the choke a dozen times to get the engine started.

hood makes starting easier; warms motor quickly; increases driving efficiency; saves gas; prevents oil dilu-tion; acts as a car heater. In all weather, it protects hood finish from heat of motor, and deadens engine

Protectahood is a vital neceasity to your car. At Your Car Dealer's

Distributed by Providence Auto Equipment Co., Inc. 65-69 Mathewson St., Providence, R. 1.

Phone GAspee 7474

"Kellogg recommends it"





#### The Truth About Electric Radio Sets

A great deal of confusion exists in the mind of the public today regarding Electric Radio Sets. This has been brought about through indiscriminate statements made by irresponsible dealers and manufacturers. Radio Sets today can be divided into two distinct classes:

#### BATTERY SETS AND ELECTRIC SETS

Battery Operated Sets use the 201A type of tube, the filament of which is lighted from a 6-volt storage battery. This type of set can also be run satisfactorily from so-called battery eliminators—that is—a rectifying unit supplying "B" Battery current from the house lighting circuit, and a 6-volt. storage battery with a built-in charger, or an "A" Battery eliminator, also connected to the house current.

ELECTRIC SETS—in the true sense of the word—are sets that are built to operate with the new A. C. Tubes. The development of the A. C. Tube has made it possible to dispense entirely with the storage battery or "A" Battery supply. With the addition of a rectifying unit to furnish the Battery current this type of set can correctly be called an electric set. In other words-any set to be correctly termed an Electric Set Must use the new A. C. Tubes.

WE NOW HAVE IN STOCK, READY FOR DEMONSTRATION, THE FOLLOWING

#### **ELECTRIC SETS**

#### RADIOLA 32

This is a custom built set—that is the supreme achievement of the Radio Corp. of America-no outside wires whateverexcept one cord leading to the light socket, complete...

#### RADIOLA 30 A

The new eight tube Super-Heterodyne with built-in 100A \$495 speaker operating on outside aerial, complete ........

#### RADIOLA 17

A six tube set table model, single control, \$157.50 

KOLSTER 6 K A new Kolster Console operating with A. C. tubes \$277.50 and built-in speaker, complete

KOLSTER 6 J New table model using A. C. tubes, beautifully de- \$187.50

Speaker Extra

**NEW KELLOGG CONSOLETTE** 

handsome floor model-burled walnut-

FREED-EISEMANN CONSOLE

## No. C. 4. Built-in speaker using A. C. tubes,

FREED-EISEMANN NO. 60 Table model—using

Speaker Extra

FREED-EISEMANN NO. 57 \$167.50

NEW ATWATER KENT NO. 36 Table model, using A. C. tubes.

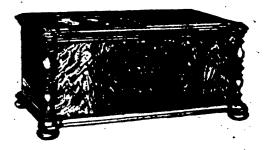
Speaker Extra

\$153.50

NEW CROSLEY CONSOLE Using A. C. tubes. Built-in Newcom-Hawley speaker. \$182.50 This set can be bought without cabinet for \$45.00 less

FOR THE BEST IN BATTERY OR POWER SUPPLY OPERATED SETS WE OFFER

## GREBE 7-TUBE **SYNCHROPHASE**



This is the latest masterpiece of A. H. Grebe Co., and the result of years of successful Radio manufacturing. Super Selectivity—Perfect Tone and Volume—Without \$135

A demonstration in your home is the only way to realize what perfect radio reception is

CONVENIENT TERMS ARRANGED

B. & H. Supply Co., Inc.

116 MATHEWSON STREET Phones Gaspee 5550-1-2-3

ous a danger to guess about.

\$22.50 to \$30.00. Special Models for Ford. \$15.00: Chevrolet, \$17.50; Dodge Four, \$20.00.



The Only Automatic Radiator Shutter on the Market

Gabriel Snubber and Specialty Co.

# TO OLD CHANNEL

483.6 Metres Dec. 1

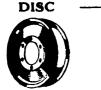
This change is part of probably the

channels.

Although it has been worded about







Straightening, Parts, Repairs 💐

LOVEJOY

**HYDRAULICS** 

**CHEVROLET** DODGE 4 **ESSEX OLDSMOBILE** WHIPPET 4-6 **PONTIAC** 

**STAR 4-6** SET OF FOUR \$25.00

W. R. BURNS CO.



45 BROADWAY

**PROVIDENCE** 

THIS enemy causes 50 to 75% of all premature motor wear-far too seri-

equip your car with Pines Automatic Winterfront—the only positive means of effectively fighting cold. Nothing to forget-nothing to remember. Winterfront works with scientific exactness.

Models for all cars-priced

PINES AUTOMATIC

695 BROAD ST. PHONE DEXTER 6820

better broadcast reception in the 600 to 1000 kilocycle band.

for Passenger Cars, Buses and Trucks







CORP BROTHERS | PROVIDENCE P |

# Now Available For

CHRYSLER - 52-60-62



AUTOMOBILE ELECTRICIANS

# DON'T-

## Guess About Cold

At 60° Fahrenheit

#### If You Have Experienced Trouble With the battery of your car or

feel that your battery service has not been satisfactory we invite you to get acquainted with DEPENDABLE EXIDE BATTERY SERVICE. Next time you need a battery or service drive in and see us. We can save you money on your battery costs. Battery Service

Company 2363Fred | Signe 1020 GEORGE B. LIPPRARDT, Mer. PARKING SPACE AT REAR

## HIGHER AERIAL

When it is found impossible to tune out a near by broadcasting station to get others farther away, try running

but by the normal process of demon-strated fitness. within a limited area and which can continue to render such service without tracks cleared for them all the way across the continent in the case of several of the Pacific coast stations which excessively high power. The stations will be brought together gradually or frequencies where, although long-distance reception will be difficult, there

For example, on 640 kilocycles, when station WRC at Washington shuts down at 10:30 or 11 o'clock, the entire na-"We have always considered every station problem in terms of public service," Orestes H. Caldwell, New ion can test out is long distance receiving sets on KFI, the 5000-watt broadcaster at Los Angeles, Cal, York member of the commission, points out. "Programs being equal, we consider Another test for distance hounds will

be the 5000-watt pair, WBAP and WOAI, at Fort Worth and San Antonio, a 5000-watt station more important than a 500-watt station solely in terms of the audiences. The whole history of San Francisco can be heard for three hours after Newark shuts down on 710 kilocycles. And Portland will come in on WEAF'S wave length after the big Long Island transmitter has closed for it a certain location on the dial may be he night.

KOA, Denver, Col., as a mile-post for tant listeners and at the same time oross-continental radio tourists, will be heard when two 500-watt stations in

vided for four high-powered New York stations, WEAF, WJZ, WOR and WABC, the last named assignment becoming effective with the Dec. 1 changes, in

shifted, which they will be likely to hear on the cleared channels, are: hear on the cleared channels, are: WBB, Atlanta, Ga., on 630 kilocycles (475.9 metres) and 1000 watts power. KFI, Los Angeles, Cal., on 640 kilo-

WBBM, Chicago, dividing time with WJBT and WAAF, both of Chicago, on No additional security or endorsers required. Strictly confidential — one day service.

> WOC. Davenport. Ia., on 800 kilo-cycles (375 metres) and 5000 watts WSAI. Cincinnati, O., dividing time with WOS, Jefferson City, Mo., on 830 kilocycles (361.2 metres) and 5000 watts

power.

WWJ. Detroit. Mich., on \$50 kilocycles (352.7 metres) and 1000 watts power.

WEW. St. Louis. Mo., on 850 kilocycles (352.7 metres) and 1000 watts power (6 a. m. to 6 p. m.)

WLS. Chicago, dividing time with WCBD, Chicago, on 870 kilocycles (344.6 metres) and 5000 watts power.

WCBD, Chicago, dividing time with

WSM. Nashville, Tenn., on 890 kilo-cycles (336.9 metres) and 5000 watts WHAS, Louisville, Ky., on 930 kilocycles (322.4 metres) and 500 watts

with KFAB, Lincoln, Neb., on 940 kilo-cycles (313 metres) and 5000 watts

kilocycle (315.6 metres), and 50,000 watts power.

WABC, New York City, dividing time

Place Tuning Coil Connection Above

Voltage is electrical pressure. The relationship between aerial and ground s likened to that between high and ow points of a water pressure system.