# RADIO LORE FOR NOVICE AND EXPERIENCED FAN

To-day's Hook-Up

### Acmetlex Set Uses D-Coil Tuner and Sodion Detector

Operates on Reflex Principle and Is Designed to Work With Loop Antenna.—Great Selectivity " Advantage in Cities

all radio fans who build their own sets when they have finished the receiver and and that the outfit works to their entire satisfaction or expectation. The fan is proud of the receiver because he built it. and is thus partially responsible for its dial, successful functioning. And his workmanship or skill really is an important factor in the operation of the receiver, for no matter how efficiently the apparatus or circuit used, unless it is carefully assembled and wired correctly, the full possibilities of the circuit cannot be realized.

In selecting the circuit to be used in your receiver, it is well to remember that there are only a half-dozen basic radio principles. Every radio receiving set is based on one or more of these principles.

This article will discuss a circuit emradio-frequency amplification. Radio-frequency amplification may be attained by means of either tuned or fixed transformer coupling. Until recently, however, use of tuned radio-frequency amplification has proven more or less objectionable on account of the necessity for multiplicity of adjustments and using some means of stabilizing or pre venting oscillations. Several methods are used to control oscillation, some of which are not efficient over the whole broadcast range or accomplish the results with con-siderable loss of energy. Many types of tuned R-F receivers, which have no effective means of control-

ling oscillation, are a constant source of trouble. Contrary to popular belief, many tuned R-F receivers are as powerful "radiating offenders" as "howling" regenera

One of the most popular circuits in use at the present time is the reflex circuit. A reflex circuit is essentially one din which one or more vacuum tubes are used for both radio and audio-frequency amplification, the advantage being that this arrangement reduces the amount of ap-

paratus necessary.

The fact that a loop can be used with the reflex circuit is a measure of its senstivity. Only a really sensitive set can use a loop effectively, and those that can have the advantage of reducing interference to a minimum.

Loop antennas, as a rule, have a lower resistance than the outdoor serial. This makes for increased sensitivity. They aid in making an outfit more selective because they can, of themselves, tune stations in

The Acmeflex is designed especially to work with an Indoor rotating loop an-A loop antenna is included in the at. The range of the set, it has kit outfit. en found by experiment, is increased the use of a larger stationary loop and a variable condenser. The largest loop can be made by using about 100 feet of wire wound in the form of a one or two-turn loop, down the walls and slong the floor, the two ends being connected to a .0005 mfd, variable con-

For convenience, this variable condenser loop is, of course, directly connected to that will cause the solder to flow, like the receiver. wire connection between the large loop wound around the wall and the smaller loop of the receiver proper.

This large loop has a great "pickup" and the coupling between it and the loop attached to the set is of such a loose order that sharp tuning may easily be obtained. If this system is used, the tuning

The use of an outdoor antenna will often increase the range of the Acmeflex but will at the same time increase the interference to a point which makes the interference signal ratto sometimes internal impedance of this tube was so greater than when the loop is used. How-high that when the audio transformer ever, out in the country and at places where interference is more or less negligible, the use of antennas and large sta-tionary loops is strongly recommended. A most efficient antenna is one erected

out of doors, away from trees and buildings. A single wire about 100 feet in length, measured from the extreme end to the set, is sufficient. In other words, the lead-in wire and the horizontal wire. added together, should not exceed 100 feet This wire should be about No. 14 B. & S. gauge, copper, or equivalent, and must be well insulated and kept a reasonable distance away from all buildings, trees and other objects. Place the aerial wire not less than 25 feet above the ground.

Outside the window through which the wire is lead into the house put a lightning arrester. Complete instructions for the installation of protective devices are usually supplied with the arresters. The

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plead-in wire should be passed into the There is a certain thrill experienced by house through an insulating bushing The list of parts is as follows;

One Acme radio-frequency transformer,

One 10005 mfd. variable condenser, with

One Aome D-coll unit, complete. Five standard-base tube sockets. One Pot-Rheo (Gohm Pheostat, 100-ohr otentiometer). One fixed mica condenser, .0004 mfd.

One bypass condenser (1 mfd, conac Eight binding posts.

One metal front panel.

One baseboard. One Bradley switch. One Sodion tube adapter.

One pair storage battery offps. box containing all screws, soldering lugs, washers; nuts, con

All necessary parts for loop. Thirty feet rubber-covered flexible wire for battery leads.

In addition to the uniterial listed above which is Jurnished in the Rit set, the following accessories will be required; Four vacuum tubes, storage battery

Due S-13; Sodion detector tube. One 60 to 100-aurpore hour 6-volt storge A battery.

Two 45-volt B batteries. One 414-volt C battery.

One D battery. This is a small 22½-volt B battery. The dimensions of this battery should be such that it will fit the buttery box supplied with the kit, the inside measurements of which are 3% by 2% inches by 2% inches high! Batteries to fit this box are readily obtainable.

One loud speaker. With the exception of the tubes, bateries and speaker, everything necessary

s included in the kit. The parts are so equipped that solder ing is unnecessary, each load is fastened to a terminal and held securely in place by a binding post.

However, if you are adept with the soldering from and prefer to make solder-ing connections this may be done just as building any other type of receiver. Soldering, that/is, correct soldering, with many fans seems to be a "lost art." The chief difficulty lies in the failure to use a good, clean, hot from That; together with obtaining clean surfaces to be sol-

dered, is the secret of soldering.

The most efficient method of soldering is to use a small electric from. If an electric from is not available get an from that is heated by a torch or gas flame, but be sure that it is of sufficient size "to hold the heat." A small from will not hold the heat long enough after it is comoved from the flame.

Do not use any soldering flux or paste that will cause corrosion. Acid pastes fallures.

The proper way to solder is to use just nough solder to gether, that is, just enough solder is used to hold the wires together, this amount in the perfect joint being only a thin Hold the wires firmly together with should be of the table mounting type. As a pair of longnose pilers until the solder this is an active tuning control it should be placed adjacent to the input end of the pilers for mechanical strength. Remember the solder for mechanical strength. receiver, preferably close to the base of the only way to assure a good strong the rotating loop. The small rotating loop, the small rotating loop.

> Keep the soldering Iron away from the tricity. cellulold covering of the variable conlensers if you decide to "solder the

I will be noted in the diagram for this set, which is especially arranged for the use of the S-13 Sodion detector tube, that the primary of the audio transformer adjustments are then made with two con- connected in the Sodion input circuit, is

not used.
This is due to an important discovery regarding the S-13 tube made during experimental work conducted in the factory laboratory. It was found that the internal impedance of this tube was so was connected in the conventional manner maximum results were not obtained due to the relatively low impedance of the primary. The secondary of the trans-

Continued on Page Nine.



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Try for yourself entirely at my risk the wonderful innercomment this inexpensive little device will make in the reception of your set. Hold on absolute guarantee of satisfaction or money back and the greatest dollar's werth ever offered the radio public. Improves results on both crystal and tube sets that use an indoor aerial, outdoor serial or light socket; but will not help a sut using loop settenna. Clears up reception wonderfully and partially absorbs static.





And We Guess Pa Ought to Know

#### Vagrant Waves of Interest to Fans

it will be to tune.

Poor battery connections cause more statte" than any other one thing. Always give a new hook-up a thorough ryout before attempting another design When the rotary plates of a variable condenser are all the way "in," the dial reading should be 100.

An old dry cell can be revived by a

solution of salamoniac for a short time but it is seldom worth while,

Ammonia or biggrbonate of soda will check acid that has been spilled from a battery from eating into the fibres of the

All crystal detector sets should have long aerials. The longer the serial is within certain limits, the better the re-

sults should be on the crystal.

The temperature of the flaments he vacuum tubes has much to do with many sets, and so the filament rheostats

must be carefully adjusted as well as the Radio is nothing more than applied elec-

Always wash the hands after testing, refilling or handling a storage battery, To properly learn to tune a new set relouger.

Use a porcelain tube when passing the the army and navy. aerial or ground wire through any wall, so that the wire will not touch anything. Spain has no fewer than 100 amateur radio transmitting stations.

By connecting the wires from the grid of the vacuum tube to the stationary

#### Radio Cabinets Why not a genuine Mahogany, little

difference in cost? Can make inexpensive or elaborate

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the undesired stations.

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he hand capacity will be eliminated. speaker is often due to reversed polarity. Merely reverse the cord tips in the jack. This applies to headphones as well.

Body capacity, or hand capacity, is the

term applied to the property of the human

body which makes it act as an electric condenser. The body is not a good con-The transmission range of the highpower radio stations that terminate in the United States totals over 40,000 miles.

Philadelphia, Pa., has a church broad-asting station. The Gethsemane Bapeasting station. tist Church is listed as WFDD, and has a wave length of 234 metres. pltat in the Bronx, New York city, is equipped with separate wall sockets into

There are more than 3000 manufacturers of radio supplies in the United States, ranging from the production of complete sets and tubes to colls and other parts.

The United States Patent Office has according to United States Pat than 2500 patents as "unpatentable." More than 2500 patents have been issued for Gen. Ferrie called attention to the radio inventions, and some 2000 are that while radio appears to an outsider to be rather a dry subject, full of mathematical and strange terms, there is actual.

terhausen, Germany, operates with 21 in-

It is estimated that there are close to ment of this one, 5,000,000 receiving sets in the United "Waves now States, 1,000,000 in lengtand and 100,000 in

ferent types, most of which are used by

There are no more than a dozen amateur receiving sets in Russia. This is due to the non-manufacture of home wireless apparatus; to the prohibitive duty on

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the reluctance of the Soviet Government to permit the indiscriminate use of radio Says Radio Saved

ignorance of what wireless means and to

## Famous Eiffel Tower

That without the advent of radio the famous Eiffel Tower would by now have been a thing of the past-a memory in pital in the Bronx, New York city, is equipped with separate wall sockets into which radio headsets may be plugged for back bed.

There are more than 3000 manufacturers a recent lecture before the Amitles Fran gaises, in Liege. The General pointed out that the lower would have been of little value had it not been found that the antenna of the great radio station

ly no science in the world which has had the romantic and almost poetic develop-

sciences," he continued, fand showed to what vast futures the present develop-The rederal Government purchases an ment of radio and the consequent study nually over 100,000 vacuum tubes of direct waves and wave trains might point. In medicine, in communication, in power transmission, in lighting, in heating and, in fact, in every concelvable branch of study waves were part of the fundamental theory of the work.

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talk radio with him the evening follow- turn of the inductance coll you tan and ng our lunch-table discussion about the tuner showed that he had gained a little through it to the ground, ead on the young son whose superior radio knowledge had become such a source of annovance to father. When I reached the Smith household the big machine was set for the strains of an opera, but down cles of these waves are so high that you on the floor Smith and Smith junior were busy with a few wires and knick-knacks which they insisted would soon be a re-

"You know," said Smith, divulging his discoveries, "I get puzzled when I try to figure out those wiring diagrams but when I actually start to make a set and follow the instructions it's really very simple. I find I have an end of a wire nere and one there, and very often comnon sense tells me where to attach them." "Fine!" 'I said. "You've got the right

dea. About the best way to discover now your big set works is to start building a small one. Pretty soon the two meet and you're ready to talk super-heterodynes as fluently as foreign exchange." Smith laughed, "You're an 'optimist," e accused me. "I'd think the world was nine if I even had a slight idea as to now the simplest set works." He said this while Smith Junior ran

over to a friend's house to borrow a fixed condenser, so Smith could talk freely. "For the simplest set, and one that probably wouldn't work except under the most favorable conditions, you need but an aerial, a ground connection, an inductance of some kind, a crystal detector and a pair of ear-phones. Crystal detec-tors are of several varieties, some being very cheap and very pesky, while others that are scaled higher in price are quite satisfactory. The wise radioist just goes to the accessory store and buys the best they have. The inductance, as I told you before, can be merely a coll of wires that you can tap at any turn you desire. The telephones are a story in themselves, but or your purpose just picture them as delicate electro-magnets operating upon a thin diaphragm which, in vibrating, gives the same sound values that are being regis-tered on the microphone at the broadeasting station.

"The next thing is to connect these simple units so that they will form a circuit, for you know that all electrical instruments operate only when the circuits

re complete and correct,
"Start with the aerial, for here is where the radio frequencies are coming in. The aerial gathers the faint energy and conducts it down to the lead-in wire to one

is then led to the crystal detector and

"You know that the tuner is used to bring the aerial-ground circuit into tune with the radio waves you want to catch. cduldn't begin to hear them with the carnating or oscillating several hundred times per second. Something has to be done to change these into frequencies that are within hearing rangé

"Here's where the crystal detector figures. The phones are connected in series with the detector. By this I mean that one of the phone wires is attached to the quency is entering while the other is atleads to the ground connection. phones, therefore, register the audible sounds that the detector makes possible. "With such an arrangement, however, you wouldn't hear a thing until the waves you were catching were varied at the broadcasting station by someone talking, singing or playing into the microphone."

Just then Smith Junior came running back with the small article known as a fixed condenser. Smith and I stopped a moment to watch him connect it in series with the phones. That is, he connected it across the circuit of the phones just as though he were cutting the phones out

altogether.
"Now what's that for?" Smith asked. The boy shook his head and mumbled omething about the Jones lad getting

better results that way.
"What it does," I said, "is to furnish an easy path for the high frequency to pass through the circuit. would all have to pass through the cir-cuit of the phones and would be serious ly hindered by reason of the high resistance they offer. These condensers are a whole story in themselves, and you'll probably find a number of them in your big set."
"Do you hear that?" Smith addressed

junior. / "If we're going to get anywhere with our radio we've got to know why "If we're going to get anywhere we get results, and not just guess at At last they were working as partners.

Smith radio stock was ready for a boom. (Copyright, 1925, Ullman Feature Service.)

Importance of Location.

The signal length of a radio set will be affected if the cabinet is on a table located near a steam radiator or other metal, or if the aerial lead is parallel to absorbing material. The difference is remarkable sometimes when the set is moved to ar other part of the room or house.

Monday

and

Sale

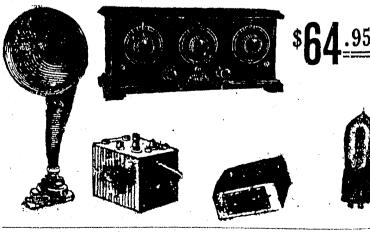




The high class, 5-Tube Tuned Radio Frequency Set which made such a big hit in New York! THE AMAREXII We are going to offer this Set to the Providence public at an exceptionally low price for Monday and Tuesday. At this Big Sale, the price will be \$64.95 for the Set and Accessories, as follows:

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## **BATTERY SOLUTION ACTION DESCRIBED**

Bureau Warns Against Use of Improper Mixtures.

Government Experts Say Salts and Acids Will Not Charge Storage Batteries Without Use of Dicotrient Carrent,-Point Out Harm-

The Bureau of Standards has Issued a warning to radio fans to guard against certain solutions which are said to charge batteries instantly or in a short time, as compared with the usual process. An investigation has been made by the bureau which revealed that changing the solution in a storage battory does not charge it. The tests showed that balteries containing these solutions, contrary to the claims made for them, behave in accordance with well established laws of electrochemistry.

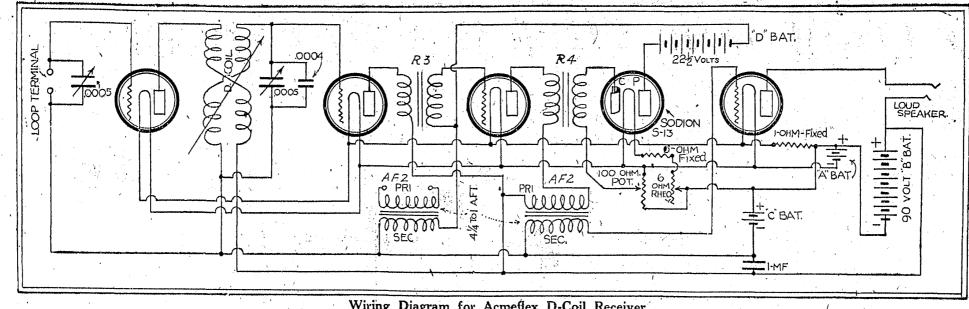
"Analysis revealed these solutions to contain 38 to 42 per cent. of sulphurio acid," says the Bureau of Standards warning, "which is whait the amount in the ordinary electrolyte of an automobile battery when charged. In some of them were found significant amounts of sedium or magnesium as well as coloring matter. The sodium may have been added as soda, tve or Clauber salts; the magnesium as Epsom salts.

"The use of sodium sulphate in battories is an old story. It was suggested more than 35 years ago, various authorities since that time have stated that such material is without beneficial effect. This has been confirmed by the bureau's rehas been confirmed by the bureau's recent experiments which show the rate of proper specific gravity at the completion of plates to be unaffected by even 4 to 5 per cent. of Epson salts of best."

"Comparison was made between batterles containing these solutions and similar batteries containing electrolye or apulphuric acid of equivalent strength. No essential differences were shown in the caconial interences were snown in the charging, the voltage, the efficiency or the temperature. When a battery is said to be charged it is understood that the battery is fully charged. A battery that is almost completely discharged may have nearly the same voltage as one that is charged. In this condition it may be able to operate the starter of an automobile, but this fact can not be taken as cylines that the battery is fully charged. It takes as long to fully charge a battery containing one of these solutions as to charge a similar battery containing the ordinary electrolyte

The indiscriminate addition of these solutions to a battery is not advisable, although in some cases no great harm may be done. If the solution is used to replace the electrolyte of a completely dis-charged battery, as is usually the cust, the battery may be spurred on to give a little more current because the plates retain a surplus of active material. When the battery is recharged by an electric current the specific gravity will rise much too high. This is because formed at the plates by the charging current is added to the acid already present in the solu-

This is not desirable because the local



Wiring Diagram for Acmeflex D-Coil Receiver

action or self-discharge within the battery ls materially increased. A battery containing one of these solutions lost 47 per cont. of its charge in four weeks as compared with 8 per cent, which was lost by a similar battery with the ordinary solu

"Batteries containing solutions algher than normal specific gravity give less capacity at high rates of discharge as when cranking the engine of an auto mobile, depending upon the behavior or the negative plates. The higher the specific gravity of the electrolye the more in-jurious is the action upon the separators. t is a well recognized principle in bat tery operation that acid should be added only to replace that which may have been spilled, or to rare instances go adjust the specific gravity to the required standard after the completion of full charge.

"Although the materials and coloring matter considered individually may be harmless, the disadvantages in using such solutions more than offset by temporary gain. The usual electrolyte of pure sul-

#### PARIS TAKES CENSUS

To Determine Popularity of Broadcasts o

The French radio magazine, Radio-Amateur, has asked all its readers to write them, setting forth their wishes as regarde the dally broadcasting of a play or an opera being performed at one of the large State theatres, the Opera, the Stabilizer to prevent oscillations and at Opera Comique, the Odeon, the Comedie Francaise, the Galete-Lyrique or the Tri- effect" of the inductance of the "D" coils.

the Parls broadcasting stations and, some amplitude. This plate current, which is believe, that there are now a million radio fans in France, it is probable that a very small monthly contribution would suffice to increase the salaries of the actors taking the court of ing part in the programmes.

#### Concerning Loop Aerials.

Toop aerials must be rotatable because they are "directional;" that is, they receive best in the directions in which the sides point. To cover stations in all parts sides point. To cover stations in which the sides point. To cover stations in all parts of the country then, the frames must be capable of being swung in those directions.

This erecut to drop to a minimum and this allows a still greater potential to be set up in the secondary of this transformer. This is impressed upon the grid of the second tube, where it in turn

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(5-tube)

Continued from Page Eight

formers, which has a much higher impedance, therefore is used as an imnedance coupler.

The "D" coil is a piece of apparatus new to the average fan and very efficient in operation. It consists of a flat plate (molded) rotor and stator, each of which carry two low-loss coils shaped like the letter "D.", These four colls are connected in parallel so that when the winding of the rotor and stator coils are the circuit is maximum. The constants of the coils being properly arranged, the variation of inductance from minimum to maximum corresponds to a difference in wave length of 200 to 560 meters, which more than covers the broadcast range.

By mounting the rotor of this radio-

frequent transformer on the shaft of the variable condenser, all of the tuning for the set is easily accomplished with one With this tuning arrangement equal amplification is obtained virtually over the entire broadcast range.

The right hand condenser is connected across the secondary of the "D" coil ra-dio-frequency transformer and acts as a effect" of the inductance of the "D" coils.
The current generated in the loop cir-

Transacs, the amount of the amateurs are willing to pay a nominal sum each month to cover intakaltion expenses in the area. As there are at first tube, causing its plate current to make in the same form, but increased in the same form, but in the same form, but increased in the same form, but in the same form i many times stronger than the initial sig-

The coupling of this transformer remains fixed, but the varying of the mutual inductance by rotating condenser and coil of the D unit until the circuit is in resonance for whatever wave length it is desired to receive, causes the impedance of this circuit to drop to a minimum and

causes a variation in the plate current of

This plate current passes through the primary of the first fixed R-F transformer, which is built to give equal amplification over a wide band of frequencies. The secondary potential is then impressed on the grid of the third vacuum tube, where it, as before, causes variations in a much stronger current in the plate circuit of that tube.

The third tube is used for amplification for both radio and audio-frequency, and this time acts as a radio-frequency ampli-

the "collector" of the Sodion tube. The S-13 Sodion tube is an extremely sensitive, non-oscillating detector, whose filament and sensitivity are best controlled by a combination rheostat and potentio-meter. This tube is more sensitive to

weak signals than strong ones, acting as n "valve", which greatly reduces trouble-some fading and causes distant stations to come in exceptionally strong under average reception conditions. Do not atempt to use any other type detector with he circuit shown.

From the detector on, the current is at audio frequencies, and from the plate of the detector tube it passes through the first audio transformer impressing a potential on the grid of the third tube, making this tube function at audio as ime acts as a radio-frequency ampli-The plate current from the third the plate circuit of the third tube passes tube passes through the primary of the through the primary of the second audio second fixed R-F transformer, which is especially designed to work with the S-13 audio-frequency signal to be set up in tube. The secondary potential of the secondary, which is impressed upon the fixed transformer is impressed upon grid of the last tube. The current in the plate circuit of this tube passes through the loud speaker, and becomes audible

sound, that is, speech or music.

The operation of the set is very easy. After the tubes have been inserted in

and loop connected, pull out the fllament Gently tap the third tube and switch. Gently tap the third tube and note if the tapping is heard in the loud speaker. This is by no means as indi-cation of the sensitivity of the set, it nerely indicates whether or not the audio umplifier is working.

The right hand condenser is, then set with the dial at approximately 100. Rotate the potentiometer arm clockwise until a hiss is heard. (The Sodion tube requires about a minute to warm up.) With the left hand on the vernier of the "D" vernier of the other condenser, adjust the

dials as follows:
Slowly rotate the left hand dial and at he same time rotate the right hand dial n a clock-wise direction, keeping its seting just about at the oscillating point

Selectivity, which is the ability to cut out one station in favor of another, is acout one station in favor of another, is accomplished to a very high degree by the use of a directional loop and the efficiency of the "D" coil tuned transformer. The set is so sharp in that the left hand dial must be rotated very slowly or stations will be missed.

In cases of severe interference maximum that the left hard set of the left had be turn.

heard the volume can be controlled with

mum selectivity may be obtained by turning the loop and if this is not sufficient rotating the potentiometer knob in a counter-clockwise direction, and simultaneously rotating the right hand condenser dial nearer the oscillating point, should effect the desired results.

> To Locate Trouble An ordinary dry cell or storage battery

and a pair of headphones are all the equipment necessary to locate trouble in a radio set. With them it is possible to go over the system from one end to the other, test coils, transformers, condensers and connections and locate all manner of trouble in a very short time To test a set that is not giving results connect one terminal of a dry cell or storage battery to one of the phone terminals. To the other battery terminal attach a short piece of wire. First test the phones by touching the free end of the wire from the battery terminal to the second phone terminal. If a "click" is heard in the phones it indicates that the circuit of the phones is O. K. and the examination of the set can proceed. When the testing wires are touched to the binding posts of a condenser there should be no "click." It a click results, the condenser is defective. If it is a variable condenser the plates are probably touching. Just remember there should be a click when a circuit is supposed to be closed, but no click when the circuit is supposed to be open.

## The Radio Tube that is fully **GUARANTEED**



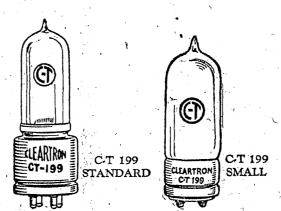
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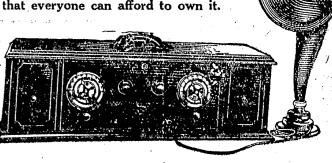
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## RADIO PROGRAMMES

Two concerts this afternoon, both re- 4:35 p. m.—Solos layed from Boston by station WEAN, are by James Durant, a bit out of the ordinary and add variety to the local offerings. There will also be a special meeting of the WEAN Noonday Club to-night at 10 o'clock. These concerts are in addition to the church services this forenoon and this evening broadcast by this station. At WJAR the usual Sunday evening programme by Roxy and his Gang and the organ recital from the Chapel of Columbia University will be relayed from New York, The chimes and Bible readings at WDWF this forenoon will be followed at 5 this afternoon by a

#### WJAR, THE OUTLET CO.

#### (305.9 METRES.)

7:20 p. m.—Musical programme by "Roxy and His Gang" direct from the Capitol Theatre, New York city, by courtesy of the Capitol Theatre management part of the programme will be taken from the stage of the theatre and will consist of music by the featured artists and the Capitol Grand Orchestra, The second part of the programme will consist of a special presentation by Mr. Rothafel of vocal and instrumental artists direct from the broadoasting studio in the theatre, 9:15 p. m.—Organ recital direct from

the Chapel at Columbia University, New

MONDAY, 5 0 m.—Housewives Radio 1:05 p. m.-Jullana Allen, soprano; Ed-

dle Plerce, plano; Carl Agornick, violinist; Miss Alice McHugb, reader.
7:30 p. m.—Mrs. Dorothy Forbes Furlong, soprano, "I Hear You Calling Me," "Danny Boy," Plano duets-by Mrs. Pud-Furlong and Miss Theresa Furlong, and Hearted Hannah," medley of \*\*Pular songs including "Me and My loy friend," "She's My Girl," "Big Bad Bill," Mrs. Dorothy Forbes Furiong, "Carmena," "Honey, That's All."

7:50 p. m .- Speaker from the Providence Safety Council.

Si00 p. m.—Programme under the dilection of Bjarne Ericson.

8350 p. m.—Gertrude Wilcox Harrop.

on Red Cross. 9:00 p. m .- A. & P. Gypsy String Dm semble relayed from our New York studio
TUESDAY.

1:05 p. m.—Providence Billmore Hotel

Orchestra. 7:30 p. m.-Songs. 8:30 p. in.—Gold Dust Twins direct from our New York studio.

9:00 p. m.—"Everady Hour WEDNESDAY. 10:00 a. m.—Housewiyos"

1:05 p. m.—Studio programme. 7:30 p. m.—Programme from our New

York studio. 8:20 p. m .- Philharmonic Society of New 10:15 p. m -- Lestle Joy, bass barltone

accompanied by Kathleen Stewart, 10:25 p. m.-Mayo Wadler, Europea

THURSDAY, O 1:05 p. m .- Studio programme.

7:30 p. m.—Musical programme, 8:00 p. m.—Arthur S. Barberlan, talk under the ausplees of the American Institute of Banking. 8:10 p. m .-- Programme under the direction of Ethel Cardiner Tattersall.

9:00 p. m -- "Atwater-Kenl Radio Art-

10:00 p. m The Silvertown Cord Or-

chestra under the direction of Joseph

10:00 a. m.-Housewives' Radio Ex-1:05 p. m. The Woodstock Orchestra. 8:00 p. m.—Programme to be announced. 11:00 p. m.—Providence Biltmore Hotel

Dance Orchestra. SATURDAY.

#### WEAN, THE SHEPARD STORES

(210 METRES) TO-DAY 11:00 a. m.-Entire services, broadcast from Chace Church.

1:30 p. m.—Concert, broadcast from Young's Chinese-American Restaurant Orchestra and Victor Wren, baritone; Dorothy Hodgens, planist, relayed from WNAC, Boston; Selections from "Prince of Pilsen," Luders; baritone solo, "One Fleeting Hour," Lee; "Hungarian Dance No. 5," Brahms; plano solo, "Sun Down," Hopekink; "Le Cygne," Saint-Saens; baritone solo, "O Sol Mio," De Capua; "On the Road to Mandalay" (request), Speaks; "baritone solo, "Friend of Mine," Sanderson; "The Skaters' Waltz," Waldteufel; baritone solo, "Anchored," "Gems of Tschalkowsky,"

4:00 p. m.—Concert, broadcast from Boston Square and Compass Club, Mario Cappelli, tener; Bessie Hall Poster, vio-linist, seprano and reader; Scott Suther-land, accompanist: Violin solo, "Hunga-rian Fantasie," Tobani; tener solos (a) "The Violet," Mozart, (b) "Where'er YouWalk," Handel; soprano solos (a) "Il" Faclo" (Hallan), Arditi, (b) "Ah Marle" (Hallan), Capua; tenor solo, "Le Cid" (French), Massenet; readings (a) "The Little Prophet," Kate Douglass Wiggin, (b) "Foolish Questions;" tener solos, Italian folk songs, (a) "Rimepando," Toselli, (b) "Conne, le Rose," Rosario, (c) "Siellian Wedding Dance," Marco,

7:30 p. m.-Mathewson Street Mothodist Episcopal Church monthly musical: White Cross Quartet—Frank 19. Streeter, organist and director; Virginia Boyd Anderson, violinist; Harriet Kinder, 'cellist; Wilfred F. Oldale, assistant organist. Duo for organ and plano, "To Spring," Grieg; trio for violin, 'cello and organ, "Langsam" from Trio Op. 39, Erim!; hymn No. 282, St. Hilda; prayer; chant, "The Lord's Prayer," dilbert; duo, "I Will braiss Him," Ackley; psaller, "Thirteenth Sunday evening;" Gloria Patrio, Groasimaly evening; Gloria, Patrio, Greatorex; trio for violin, 'cello and organ, "Legende," Friul; offertory anthem, Sanctus from St. Cecilia Mass, Gounod; doxology; sermon, R. D. Hollington, "Jesus, the Orator;" quartet, "Soft Floating on the Air," Root; benediction; amen, Greek Liturgy; organ postlude, "Fostival Greek Liturgy: organ postlude, "Festival

Greek Liturgy; ergan postlude, "Festival Postlude," Demarest, 10:00 p. p., ..... Special meeting of the WEAN Noonday Club, with selections by the following members: Fred Weaks, tenor; Fred Prentice, barttone; Fred Travers, bass; Herbert Tarryton, barttone; Fred Warren, tenor; Florence, tenor; Gorden Berger, posterites, buth, Resett with the Postler with the posteries. Brown, contralto: Julia Benoit, whistles and contralto; Idla Day, soprano; Peggy Greene, soprano; Joseph Doak, enter-tainer; WEAN Noonday Club Quartet tainer; WEAN Noomas Kalua Hawalian String Quartet

#### MONDAY, A

11:55 a. m.—Time signals. / 12:00 m.—Shepard Colonial Concert Orchestra, Harold Sheffers, director, 12:10 p. m.-Lonton noonday sorvice broadcast from Grace Church, Providence, Sermon by the Rev. Philemon F. Sturgis. 12:30 p. nn-Weather report. 12:35 p. M.-Noon meeting WEAN Noon-

4:00 p. m .- Shopard Colonial Dance Or-

4430 p. m .-- Weather report.

4:45 p. m.—Shepard Colonial Dance O

chestra. 8:00 p. m.-Maldon Cadot Band, Frank lin Russell, leader, assisted by Maud Erlekson, soprano, relayed from Station

TUESDAY. 10:00 a. m.—'The Bluebird's Message to lousewives by Miss Gladys J. L. Fockiam, home service department, Provi-Gas Company.

11:55 a. m. Time signals. 12:00 m .- Shepard Colonial Concert Or

12:10 p. m.-Lenten noonday service broadcast from Grace Church, Providence. Sermon by the Rev. Donald Aldridge of St. Paul's Church, Boston. 12:30 p. m --- Weather report.

12:35 p. m.-Continuation of musica 4:00 p. m .- Shepard Colonial Dance Or

4:10 p. m. Incidental music by the Smory Theatre Concert Orchestra, Wil Omery Theatre Concert Orchestra, William J. Faucher, director, broadcast from the Emery Theatre, Providence, 4:30 p. m.-Weather report.

4:35 p. m.-Shepard Colonial Dance Or oheštra. 6:30 p. m -- WEAN dinner dance, Shep-

ard Colonial Orchestra, Harold Sheffers director; baritone solos by Chester H Miller: Allde Murray, planist 7:05 p. m.—Liméricks, Billy B. Van, reayed from Station WNAC.

7:46 p. m.—William J. Manning, tenor Warren Nicholsen, ukulele. 8:00 p. m.—Auna Russell Griffin, con-tralto; Alleene Lowry, soprano; Gertrude

Fox, planist. 8:10 p. m .- Orchestra, relayed from Sta-Uon WNAC.

WEDNESDAY, 11:55 a. m.—Time signals. 12:00 m .- Shepard Colonial Concert Or

12:10 p. m.-Lenten noonday service roadcast from Grace Church, Providence Sermon by the Rev. Donald Aldridge of St. Paul's Church, Boston. 12:30 p. m -- Weather report. m .- Noon' meeting WEAN

loonday Club 4:00 p. m .- Shepard Colonial Dance Orchestra.

4:15 p. m.-Soprano solos by Elsle wain 4:30 p. m.-Weather report

4:35 p. m.—Shepard Colonial Dance Or-8:00 p. m.-The Old Plantation concert, lirection Virginia Hardy, relayed from

Station WNAC. 9:30 p. m.—Dance music. Rhodes Or-chestra, direction Charles E. Culverwell, proadcasts from Rhodes-on-the-Pawtuxet,

THURSDAY, WAYV 10:00 a. m .- The Bluebird's Message to Housewives by Miss Gladys J. L. Peck-nam, Home Service Department, Provilence Clas Company.

11:55 a. m.—Time signals. 12:00 p. m.—Shepard Colonial Concert Orchestra.

12:10 p. m.—Lenten Noonday Service

broadcast from Grace Church, Providence. Sermon by the Rev. Donald Albridge of St. Paul's Church, Boston. 12:30 p. m.-Weather report. 12:35 p. m.-Continuation of musical

rogranune. 4:00 p. m .- Shepard Colonial Dance Orchestra.

4:30 p. m -- Weather report 4:35 p. m .- Shepard Colonial Dance Orrnostra. 8:30 p. m .- WEAN Dinner Dance, Shep-

ard Colonial Orchestra, Harold Sheffers, 7:00 p. m.-Master Bruce Wilson will ntortain, with Master Billy Stubbs at

he plano. m.-Rose Millman, planist; Sarle Mountaine, xylophone.

FRIDAY. 11:55 p. m .- Time signals. 12:00 p. m.-Shepard Colonial Concert rchestra.

12:10 p. m.-Lenten Noonday Service. broadcast from Giace Church, Providence. Sermon by the Rev. Fhllemon F. Sturgls

12:30 p. m.—Weather report. 12:35 p. m.—Neon meeting WEAN oonday Club. 4:00 p. m.-Shepard Colonial Dance Or

4:30 p. m.-Weather report 4:35 p. m .- Shepard Colonial Dance Or hestra.

8:00 p. m.—Band concert, Vetgrans c Foreign Wars, Aliston Post Band, re layed from Station WNAC. SATURDAY, 💢 10:00 a. m.—The Bluebird's Message to

Housewives by Miss Gladys J. L. Peckham, Home Service Department, Providence Gas Company. 11:55 a. m .- Time signals. 12:00 p. m.-Shepard Colonial Concert

Orchestra. 12:10 p. m .- Weather report. 12:15 p. m.-Continuation of musical

4:00 p. m.-Shepaid Colonial Dance Or-4:30 p. ni-Weather report.

4:35 p. m.-Shepard Colonia: Dance Or. chostra. 8:00 p. m.-Harverd Freshnen Musical Club, relayed from station WNAC.

10:00 p. m.—Dance music by Ed D'Alphonso and His Hotel Dreyfus Orchestra, broadcast from the Parisian Room, Hotel Dreyfus, Providence.

> WSAD, FOSTERS (256 METRES)

MONDAY 2:30 p. m.-Musical programme. 3:30 p. m.-Beauty talk by Grace An-

3:40 p. m .- Musical programme. 6:00 p. m.—Fosters Story Lady, 6:15 p. m.—Recitations, by Marguerite McEnnenny. 6:25 p. m.—Concert by the "WSAD Or-chestra."

TUESDAY 2:30 p. m.-Instrumental music.

6:15, p. m.-Pifteen minutes of music. WEDNESDAY. 2:30 p. m .- Edison concert. 6:00 p. m.—Fosters Story Lady, assisted by Dolly Gibb, with plane accompani-

lents by Frances M. Ostiguy. 6:20 p. m.-Musical programme to be THURSDAY.

2:30 p. m.—Instrumental music. Evening programme to be announced. FRIDAY 2:30 p. m.-Musical programme.

6:00 p. m.—Safety talk by Fosters Story ady, in co-operation with Providence Safety Council. 6:05 p. m.-Fosters Story Lady. 6:15 p. m .- Concert by the "Belvodere

SATURDAY. 2:30 p. m.-Dance music. m. Saturday night story by Posters Story Lady.

## To-day's Programmes in Brief

For the convenience of radio fans, the following hourly schedule of broadcasting to-day is given in brief form, the complete programme being given under the regular listing of announcements, The hours are based on Eastern Standard Time.

4:45-Vespers, KDKA LOCAL STATIONS 5:00-Concert, KYW. 10:00—Chimes, WDWF. Vespers, WFBL 1:00-Church, Orchestra, WHN. 1:30—Congert, WEAN, 1:00—Concert, WEAN, 5:30—Song service, WHAS, Songs, WHN, 5:00+Recital, WDWF., 7:20-Roxy, WJAR.

9:15-Organ recital, WJAR. OUT-OF-TOWN STATIONS 9:00-Children's Hour, WJZ, 10:00—Church, WOAW, 10:30—Sunday school, WLW,

7:30-Church Musle, WEAN.

10:45—Church, KDKA, Church, WCAE, 10:55—Church, WBZ. 11:00—Church, WHAS. Church, WJZ. Church, WWJ: 11:45—Sermon, WEMC. 12:00—Church, KYW.

Church, WCCO. Sacred music, WEMC. Church, WLW. 12:30—Concert, WJZ. 12:45—Sermon, WEMC. 1:00-Church, KNX.

Organ reeltal, WHN, 1:30—Church, KGW, 1:45-Church, KFL 2:00-Church, KGO. Song, WEAF, Concert, WLIT

Orchestra, WWJ. 2:20-Concert, KDKA. Music, WOAW. 2:30-Bible class, WJY. 2:45-Church, WEAR. 3:00-Church, WCAE. Church, WHN.

Vespers, WGR. 3:15-Orchestra, WIP, Concert, WOAW, 3:25—Orchestra, WBZ, 3:30—Lecture, WCTS. Muslc, WGBS,

4:30-Musle, WHN,

Songs, WJY. 3:45-Men's conference, WEAF, WEEL. 3:55-Vespers, WJN. 4:00—Organ recital, KDKA, Piano recital, WCAE, Recital, WHN Concert, WSAI. Organ recital, WGR.

5:40-String trio, WHN, 6:00-Concert, KGW. Orchestra, WLIT. 6:15—String sextet, WFEL. 6:30—Concert, KDKA. Concert, KGO. Concert, WCAC, Music, WLS. 7:00-Vespers, KFI. Orchestra, WBZ. Orchestra, WJZ. 7:15 Church, WIP. Church, WGR. 7:20-Roxy and His Gang, WEAF, WEEL. WCAP, WCTS.

7:45-Church, KDKA, 8:00-Church, -Church, KNX. Concert; WBZ. Services, KGW. Songs, WJZ. Church, WSAL 8:15-Orchestra, WJY. 8:30-Music, WEZ. Church, WCCO.

Church, WLW. 8:45—Orchestrn, WJZ. 9:00—Church, KGW, Concert, WBZ, 9:15-Music, KNX. Organ reeltal, WCTS, WEAF, WEEL WCAP, WWJ. WCAE Music, WEMC 9:30-Concert, WGBS.

Orchestra, WIP Orchestra, WLW 9:45—Music chat, KFI 9:50--Sermon, WEMC 10:00-Theatre, KFI. Concert Church, KNX, Music, WHN.

Talk, WJY. Quartet, WJZ. 10:15—Concert, WCCO. 10:45—Orchestra, WHN.

11:00—Songs, KFI. Church, KGO. Concert, KNX. 12:00:-Musle, KNX. 1:00-Dance music, KFL

6:15 p. m.—Regular Saturday evening dance music by Lar Potter's Orchestra,

#### WDWF, DUTEE W. FLINT, INC.

(441 METRES) TO-DAY

10:00 a. m.—Chimes. Bible reading. 5:00 p. m.—Recital, Venetian Serenad-'s; Willard C. Amison, tenor; Willis Cadwell, organist.

TUESDAY 8:30 p. m.-Arcadian Orchestra. THURSDAY 8:00 p. m .- Talk, Mrs. Ray Cox Flint

8:00 p. m.-Health talk.

WGBM, T. N. SAATY

(234 METRISS) MONDAY 10:00 p. m.—Concert by Sullivan's Or-hestra—James Sullivan, plano; Albert Donais, violin: Jack Maher, saxophone: Hirst, cornet; John Croft, drums William Lavine, banto.

WEDNESDAY 6:30 p. m.—Group of classical selec-ions for the piano by Miss Isabel Reilly. FRIDAY

6:30 p. m.-Special programme to be KDKA, EAST PITTSBURGH, PA.

(309 METRES)

10:45 a. m.—Services of the Calvary Episcopal Church, Pittsburgh, Rev. E. J. Van Etten, pastor. 2:20 p. m.—Concert by the Westingouse Symphony Orchestra, under the diection of Victor Saudek.
4:00 p. m.—Organ recital by Dr. Charles

Heinroth, director of music of Carnegie Music Hall, Pittsburgh, broadcast directly om Carnegie Music Hall. 4:45 p. m.-Vesper services of the Shadyside Presbyterian Church, Pitts-burgh, Rev. Hugh Thomson Kerr, pastor, 0:39 p. m.—Dinner concert from Pitts-burgh Athletic Association Orchestra inder the direction of Gregorio Scalzo, 7:15 p. m.—Services of the First Bup

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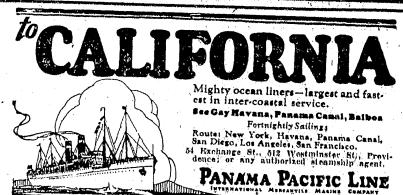
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THE BUSINESS—opportunities that bloom in the classified section are waiting to be plucked,

# RADIO PROGRAMMES

Continued from Page Ten KFI, LOS ANGELES, CAL, (467 METRIES)

ire Orchestra of 45 plocos.
11:00 p. m.—Estello Heartt-Dreyfus

#### KGO, OAKLAND, CAL. (30t MISTRES)

2:00 p. m Service of the First Church of Christ, Scientist, San Francisco. 6:30 p. m .-- Concert, KGO Little Symphony Orchestra, Carl Rhodehamel, conductor; Arthur S. Carbott, musical interpretative writer; guest artists. 11:00 p. m.-Service of the First Church of Christ, Scientist, San Francisco.

#### KGW, PORTLAND, ORE. (491.5 METRES)

p. m.-Service from First Presbyterian Church, Dr. Harold Leonard Bow

6:00 p. m .- Municipal concert by wire telephony from auditorium.

0:00 p. m.--Church services provided by the Rev. W. G. Pillot, Jr., pastor Church Jof our Pathor, Unitarian.

10:00 p. m.—Dinner concert by Colburn Concert Orchestra of Hotel Portland; intermission solos. KNX, LOS ANGELES, CAL.

(887 METRES) TO-DAY. 1:00 p. m .-- Pirst Presbyterian Church of Hollywood.

m .- Radio sunset service, ducted by Rev. Charles P. Asked, D. D. 14. D., and Rov. Frank Dyer, D. D. Ambassador Hotel. 0:15 n. m.-International Bible Students

Association hour of music. 10:00 p. m.-Itlest Presbyterian Church of Hollywood.

11:00 p. m.—Anybassador Concert Or chestra, Josef Rosenfeld, leader. 12:00 p. m .-- Programme of music.

#### KYW, CHICAGO, ILL. (586 METRES) TO-DAY.

. 12 m.-Central Church service from Or chestra Hall, Chicago, Rev. Dr. E. F. Shannon, pastor. Musical programme ander the direction of Daniel Protheros. 5:00 p. m.-Classical concert from West inghouse Station KYW's studio in Heart

8:00 p. m.-Chicago Sunday Evenina Club service from Orchestra Hall, Chieago. Musical programme arranged under the direction of Edgar Nelson. The speaker will be Albert Parker Fitch, Carlton College, Northfield, Minn.

#### WBZ, SPRINGFIELD, MASS. (338.8 MITTRIOS)

in.-Church services from the South Congregational Church, Rev. James Gordon Clifkey, pastor; music by Prof. Unifato, R. J. MacAlpino, D. D. minister; William P. Moog, organist and choir of 24 voices; the quartet is as follows: Mrs. A. E. Grace R. Donovan, soprano; Mrs. A. E. Song of India," Rinsky Korsakow; "An-Grace R. Donovan, Soprano; Mrs. A. E. Gantino, "Lensky Korsakow; "An-Gantino," Lensky Korsakow; " contralto; William L. Spittal, dantino," Lemare.

Walte, contralto; William L. Spittal, tener; Albert Edwards, bass.

3:25 p. m.—Broadcast of People's Symphony Orchestra direct from the St. James Theatre, Boston, through the Flotal Brunswick, Boston.
7:00 p. m.—Copicy-Plaza Orchestra

sam, planist, Hotel Brunswick, Boston, 8:00 p. m.—Concort by Leonord Doorsam, either player, and Florence Doorham, planist, Hotel Brunswick, Boston,

direction of E. Rupert Streom; organist, ter, Men and boys' choir of 60 voices.

#### WCAE, PITTSBURGH, PA. (401 METRES)

10:45 a. m.—Services from Rodef 3:00 p. m .- People's Radio Church serv

4:00 p. m .- Plano recital by Prof. Otto 6:30 p. m:—Dinnor concert transmitted from William Ponn Hotel.

#### WCCO, MINNEAPOLIS-ST. PAUL (417 METRES) 12:00 m.—Trinity Baptist Church, Minneapolis, Rov. David Bryn-Jones, paster.

4:30 p. m.—Eirst Baptist Church, Minne apolis, Rov. W. B. Riley, pastor. 10:15 p. m.—Classical concert, MacPhail School of Music Faculty programme.

#### WCTS, WORCESTER, MASS.

(268 METRES)

TO-DAY.

3:30 p. m.—Christian Science lecture by
Hon. William 19. Brown, C. S. B., Los
Angeles, Cal., and broadcast direct from the Bancroft Hotel.
7:20 p. m.-Musical programme by

"Roxy and Ills Gang" direct from the Capitol Theatre, New York city. 9:15 p. m.—Crgan recital direct from the Chapel at Columbia University, New York olty.

#### WEAF, NEW YORK CITY (403 METRES.)

2:00 p. m.—"Sunday Hymn Sing." under under the auspices of the Greater New York Federation of Churches, Rev. William B. Millar, Coneral Secretary,

presiding officer. 2:45 p. m.—Interdenomination services under the auspices of the Greater New York Pederation of Churches, Address by Rev. D. Ernest McCurry, D. D., pastor, Wells Monorial Presbyterian Church, Brooklyn, N. Y. Music by Alda Brass Quartot, consisting of Clara Haven, Helen Batcholder, Bleanor Botts and Cora Sau ter, together with Arthur Billings Hunt,

baritone and musical director; Edith Hallett Frank, soprano; Mildred Bryars, con-tralto; Louis Caton, tonor; William H. Browster, basso and organist; George

(467 METRIOS)
(TO-DAY)

1:15 p. m.—Morning services presented by the Los Angeles Church Federation. The speaker will be Judge Robert H. Scott; subject, "The Christian Dynamic in Augerican Citizenship." Mr. A. L. Miller, noted harpist, will play and sing.

7:00 p. m.—Vesper services, a concert of secular and sacred numbers presented by Harold Isbell.

9:45 p. m.—RIFI Radiotorial period and music appreciation chat.

10:00 p. m.—Programme presented by Albert Kaufman, from the stage and studio of the Metropolitan Thear creating (K) benediction; (I) vesper hymi, "Creators, directing the Metropolitan Thear Compositor (K) benediction; (I) vesper hymi, "Take Time to be Holy." Stebbins, by

"Take Time to be Holy," Stebbins, by Alda Brass Quartet and Radic Croup. 11:00 p. m.—Estello Heartt-Dreyfus, contralto, accompanied by Alfred Kast-ner, harpist, and Graco Andrews, plane, that Lanton some hour of folk will give a final Lenten song hour of John ling. Address by Dr. S. Parkes Cadman; songs: "My Boy," "To Rest I Call My subject, "The Lenten Message." Answers to questions by Dr. Cadman follow the address. Special music by Gloria Trumpoton this programmo.

1:00 a. m.—An hour of dance music leader: Mrs. Howard Wade Kimsey, song leader: Mrs. Howard Wade Kimsey, accommands: George Betts, chime soloist.

companist; George Betts, chine soloist.

7:20 p. in.,-Musical programme by
"Roxy and His Cang," direct from the
Capital Theatre, New York city, by courtesy of the Capitol Theatre management and Mr. S. L. Rethatel (Roxy). The first part of the programme will be taken from the stage of the theatre and will consist of music by the featured artists and the Capitol Crand Orchestra. The second part of the programme will consist of a speolal presentation by Mr. Rothafel of vocal and instrumental artists direct from the

broadcasting studio in the theatre. To Wigal, Wigil, WJAR, WCAP, WDBH, WWJ, WCAE. 9:15, p. m.-Organ reolfal direct from the chapel of Columbia University, New York city to WEAF, WEEI, WJAR, WCAP, WDBH, WWJ and WCAE,

#### WEEI, BOSTON, MASS. (476 METRES)

TO-DAY. 3:45 p. m.—Men's Conference Y. M. C. A., Brooklyn, N. Y. 7:20 p. m.—"Roxy and his Gang," New York Capitol Theatre.

9:15 p. m.—Organ recital, Columbia University Chapel, New York. WEMC, BERRIEN SPRINGS; MICH. (280 METRES)

12:00 m.—Sacred nrusic by the Radio ishthouse Choir, Miss Catherine Borgen, violinist; Mrs. Margaret Wolfe, planist. 12:45 a. m.—Sermon; Pastor W. R.

lighthouse Choir, Mr. Prescott Fairchild, violinist; Mrs. Sidney Smith, soprano, 9:50 p. m.—Sermon,

#### WFBL, SYRACUSE, N. Y. (262 METRES) 2 182

5:00 p. m.-Pirst Presbyterian Church! espers.
6:15 p. m.—Onondago String Sextet.

WGBS. NEW YORK CITY.

#### (816 METRES) 3:30 p. m .- Musical programme direct

from Piccadilly Theatre, 9:30 p. in.—Sunday evening concert from Della Robbia room, Vanderbilt Hotel.

#### WGR, BUFFALO. (810 MINTRES)

3:00 p. m.—Vesper service by Rev. Clinton Churchill of the Churchill Evangelistic Association. 4:00—Organ reeltal, ball room, Hotel Statler, John E. Gunderman, Jr., ormanist.

7:15 p. m .-- Pre-service organ recital. Mrect from Central Presbyterian Church, Buffalo, R. J. MacAlpine, D. D. minister;

#### WHAS, LOUISVILLE, KY: (300.8 METRICS)

10:57 a, m.—Organ music, 11:00 a. m.-Church service under the numbers of the Tampla Adath Israel, the Rev. Dr. Joseph Rauch, pastor. Karl Schmitt, organist and choir director; Charles Legaler, violinist; Mrs. Lowis W. Cole, soprane; Mrs. Willam J. Horn, tener; Douglas Webb, baritone.

8:30 p. m.—Mrs. Mildred Merrill, contrallo, assisted by the Schumann Trio, consisting of plano, violin and 'cello, Hotel Brunswick, Boston.'

9:00 p. m.—Concert broadcast direct from the Estey Organ studie by the Mendelsohn Club of male voices under the delisation of the Estey Organ studie by the Mendelsohn Club of male voices under the delisation of Estey Sixon organist and choir massive the Mendelsohn of the Estey Organ Sixon organist and choir massive the Mendelsohn of Estey Sixon organist and choir massive the Mendelsohn org

#### WHN, NEW YORK CITY (861 METRIES)

TO-DAY.

1:00 p. m.—Organ recital from Loow's Lextington Theatre.
3:00 p. m.—Queens County Christian Endeavor programme represented by the Rev. Joseph B. Carln of the Leverich Memorial Church of Corona, L. I. 4:00 p. m.—Musical recital by Edwin Johnson of Carnegle Hall.

4:30 p. m.—Concert under auspices of Music Lovers' Association.

5:00 p. m.-Roseland Dance Orchestra.

A THE RESIDENCE OF THE PARTY OF

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Set of Six Knives at

#### J. M. Schmid & Son 106 Westminster Street

JUST BELOW ARCADE

5:80 p. m.—"The American Indian Idyll" by Miss Moses and Mrs. Zilberm,-"The American Indian 5:40 p. m.-Olcott Vail and his string TO-DAY.

10:00 p. m.—Gem Razor Entertainers, 10:45 p. m.-Janssen's Hofbrau Comkozi, director. manders Orchestra. Concert Orchestra, W. Irving Oppenheim, 11:15 p. m.—Signing off for DX fans.

#### WIP, PHILADELPHIA, PA. (500 METRES)

TO-DAY

8:15 p. m.—Civic Junior Symphony Orchestra, consisting of 112 members, under the direction of Mr. Albert N. Hoxle, broadcast direct from the reception of His Honor, the Mayor, at City Hall.
7:15 p. m.—Evening service, broadcas direct from Holy Trinity Church, Ritten-house square, Philadelphia, Rev. Floyd W. Tomkins, D. D., rector. 9:30 p. m.—Germantown Theatre Or-

chestra, broadcast direct from the Germantown Theatre, Karl Bonawitz at the

#### WJY, NEW YORK CITY (40s METRES)

TO-DAY. 2:30 p. m.—Radio Bible Class; Rev. Walter McCarroll, "Tongues of Fire;" Church Community Chorus, Clarence H. Allen; Easton Kent, tenor; Hazel Lawsatter, soprano; Harry E. Clark, bass, 3:30 p. m.—Richard Gunsing, baritone; Anna Trumpdour, accompanist. 3:55 p. m.-St. George's vesper service,

8:15 p. m.-Hotel Commodore Orchestra, direct, Bernhard Levitow. 10:00 p. m.--"Reminiscences of a Reporter," William H. Crawford.

#### WJZ, NEW YORK CITY (455 METRES) TO-DAY.

b:00 a. m .- Children's hour; original stories by the authors, music by the com-

11:00 a. m.—Grace Methodist Episcopal Church, Rev. John L. Davis, D. D. 12:30 p. m.—Sunday symphonic concert. Criterion Theatre, direct; Josiah Zuro; 7:00 p. m.—Hotel Pennsylvania Orches-

Will Sell Monday:

## WLIT, PHILADELPHIA, PA

2:00 p. m.—Special concert by the Arcadia Concert Orchestra, Prof. Feri Sarm.—Benjamin Franklin Hotel

WLS, CHICAGO, ILL.

6:30 p. m.—Ralph innerson at Barton organ; WLS Little Brown Church pro-6:30 p.

## WLW, CINCINNATI, O.

m.—School conducted by the editorial staff of Sunday School Publica-tions of the Methodist Book Concern. 12:00 a. m.—Services from the Church

9:80 p. m.—Concert by the Western and Southern Orchestra; William Kopp, director. (Under the auspices of the Welfare Association of the Western and Southern Life Insurance Company.) Solo-ist—George Muhlhauser, tenor.

#### WOAW, OMAHA, NEB. (526 METRES)

10:00 a. m.—Radio chapel service, conducted by Rev. R. R. Brown and his associates of the Oniaha Gospel Tabernacle 2006 Douglas street.

Shenandoah, Ia. ence Presbyterian Church, Rev. A. B. Vanderlippe, pastor. Mrs. F. H. Allis, posors; comic stories by the originators of famous comedies, of famous comedies, 11:00 a. m.—Grace Methodist Episcopal trow," Rubinstein, "Razei B. Reynolds; 11:00 a. m.—Grace Methodist Episcopal trow," Rubinstein, "Grace Methodist Episcopal trow," Rub hymn, "When Love Shines In." Kirkpatrick; soprano solo, "Trusting," Lieurance Myfanwy Jones; whistling solo, selected Mrs. V. Harrington Gross; anthem incidental solo, "Our Song Shall Rise," ra. 8:00 p. m.—Leon Gilbert Simon, barl-one: Wyman Millor (2011) Simon, barltone; Wyman Miller, 'cellist; Louis Lane, violin solo, selected, F. E. Della; baritone "The Pligrims of the Night," Par-8:45 p. m.—Joseph Knecht's Walderf-ker, F. H. Allis; sermen, "The World We Astoria Concert Orchestra. 10:00 p. m.—Hampton Male Quartet. solo,

# (845 METRES)

## (422.3 METRES)

12:00 a. m.—Services from the Church of the Covenant; Dr. Frank Stevenson, minister. Organist—J. Warren Ritchey; Soprano—Charlotte Sandman Angert; Contralto—Louise Koetter; Tenor—Erwin Meyer; Bass—Edwin Weidinger.

8:30 p. m.—Service from the First Presbyterian Church of Walnut Hills; "Dr. Frederick McMillin, minister.

8:30 p. m.—Covenert by the Western and

TO-DAY. 2:30 p. m.—Matinee programme trans-nitted from WOAW's remote studio

#### rls, Mr. and Mrs. Charles Vickery; baritone solo, "Rock, of Ages," Rentick, H. T. Brisbin, Jr.; anthem, "How Excellent Thy

Loving Kindness," Lorenz; soprano solo, "The Day is Ended," Bartlett, Mrs. J. H. Price, F. E. Della, violin obligato; hymn, "Jesus, Lover of My Soul," Holbrook. 7:00 p. m. Bible study period under the personal direction of Mrs. Carl R. Gray. 10:00 p. m.-Musical chapel service, Pearl Memorial Church choir, Rev. M. one of 100,000,000 places in the other chirchip pastor. Lee K. Kratz choir a manner that would be entired director; Myrile Benson, accompanist. Prolude, "Cradle Song," Kjerulf, Myrtle

Benson, plano; processional, "God of Our ward appearances an ordinary typewriter Fathers," Warren, choir; invocation; with a sort of cash register attachment, phoral response, "The Lord is in His Holy Temple," Kratz; anthem, "Hark, the Vesper Hymn," Stevenson, choir and incidental solo, Mrs. Beatty; scripture read-

#### WSAI, CINCINNATI, O. (866 METRES)

4:00 p. m.-Sermonette and sacred 8:00 p. m.-Church services.

> WWJ, DETROIT (352.7 METRES)

TO-DAY.

11:00 a. m.—Services at St. Paul's Episcopal Cathedral, broadcast from the ca-2:00 p. m.-The Detroit News Orches-

tra. 7:20 p. m.—"Roxy and His Gang," broadcast from the Capitol Theatre, New York, N. Y.



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Feed baby chicks the kind of food that years of experiment has proved exactly right. It will pay you two hundred times what it costs. Start giving them Pratts and see how few chicks you lose from under-nourishment or disease! Old hands with poultry feed only Pratts Buttermilk Baby Chick Food those first, critical weeks. And Pratts Growing, Mash when fully feathered—to keep our the good work! PRATT FOOD CO. 124 Walnut St., Philadelphia, Pa



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#### RADIO TYPEWRITER

able Machine.

The world was startled a few days ago when a young Italian inventor, Manrico Compare, announced that he had perfected a secret radio typewriter which would be able to send messages to any one of 100,000,000 places in the world in manner that would be entirely impos-

This remarkable invention is to all outwith a sort of cash register attachment, known as the "combiner."

Whenever one of the keys on the type writer is struck it sends a current through used, and which operates only one re- are used.

ceiving instrument. The receiving instrument is apparently another ordinary type-writer, and it writes along as the combined alphabet comes in, in clear English originally used.

or French or whatever language was Transmission is quite as instantaneous as a sound in a radio receiver, it is claimed, and a business man could have a letter typed out to his correspondent at the other end of the earth, while the latter could read the letter as fast as

#### When melting paraffin to waterproof

cardboard tubes, keep fire away from the olution at all times. Do not let the melted paraffin boll over, as it will ignite the combiner which selects a Morse code instantly. There is no danger, however, letter in accordance with the combination if ordinary precautions and common sense

#### FOR MONDAY Fresh Cut Pork Chops.....18c-35c lb Fresh Ground Hamburg Steak . . . 2 lbs 25c Fresh Cut Stewing Lamb.....8c-10c lb Fresh Cut Stewing Beef ...... 15c lb Best Rhode Island Eggs - - - - - 39c doz Boiled Ham (Sliced—Reg. 75c) - - - - 70c lb Lobsters ......38c lb Fig Bars . . . . 2 lbs 25c

PURE FOOD SPECIALS

## Haddock Spawn. . 20c lb Best Green Mountain Maine Potatoes - 20c pk Sweet Juicy Florida Oranges - - - - - 45c doz

Cabbage

Celery

GROCERIES Strawberries . . 30c can 2 Caus 59e-Reg 35e each

Peppermints ....25c lb

Miner's Malted Milk Cocoa . . . . . . . . . . . 53c jar Reg 60c Tea,  $\frac{1}{2}$ -lb tin.....39c

Soap ..... 6 bars 25c Pillsbury Buckwheat Flour . . . . . . . . . 48c pkg Prunes, 2-lb pkg....250

Apples

40c doz

Weybosset, Hay, Pine and Peck Streets

# 26 SPECIALS FOR MONDAY AT THE BILTMORE MARKET

# Domino Granulated Sugar, 10 lbs. for 59c

(In Sanitary Cloth Bags)

Sold in the store between the hours of 9 to 12 in the morning and 2 to 5 in the afternoon. Delivered with other goods all day.

Van Camp's Catsup, large bottles ...... 2 bottles 450 

Monday and Tuesday will be the last days of our 5-day sale. Come in before the sale is over and take advantage of the bargain prices. Besides the items listed below you will find a large assortment of groceries priced much lower than



# A BIG BARGAIN

**NEW ENGLAND GROCERY** 

PORK CHOPS......20c to 35c lb

GREEN MOUNTAIN POTATOES...19c peck

CABBAGE, Solid Heads ...... 2c lb

GRAPEFRUIT, Special Lot, 5 for ..... 250

14c "Robin" PEAS, 2 cans......25c

190 "Buster" SALMON, tall can......15c

14c "Sun Mald" RAISINS, Seedless

We have several hundred cases of LUNCH TONGUES, "Larkspur" brand, packed by one of the highest grade packers. We are going to sell them at a low price this week, or while

No. 1/2 ..... 2 cans 25c—\$1.45 doz 

Our Regular Prices, 45c and 25c

These tongues are equal in quality to brands selling at 25c for 1/2s and 40c for No. 1 size. It will pay you to lay in an emergency stock.

## SWEET CREAM BUTTER

We are very anxious to increase the distribution of our wonderful Sweet Cream Butter. The price is 520 cut from the tub. To induce more of our customers to try it, we are going to sell tomorrow and Tuesday at 48c, 2 lbs for 95c. Also we are going to sell our fancy Centralized Creamery tomorrow at 43c, 2 lbs 85c.

### OTHER SPECIALS 380 PORK BLADE STEAK......300 lb

380 to 48c TOP ROUND STEAK 28c to 45c 1b 27c FRANKFURTS, Best Quality . . . . 25c 1b Best Quality ...... 20c pk, 75c bu NATIVE LETTUCE, 2 heads ...... 15c CALIFORNIA ICEBERG LETTUCE, 60c WALNUT MEATS, Pieces .... 49c lb 70c WALNUT MEATS, Halves .... 58c lb 15c FIG BARS, new lot, 2 lbs.........25c FLORIDA ORANGES, Special, \$1.65 "E. A. Co." FLOUR ..... \$1.45 25c SQUASH PIES ...... 20c each 6c ROLLED OATS ..... 4c lb 25c ITALIAN STRINGLESS BEANS,

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"Optimus," Imported ...... 19c can