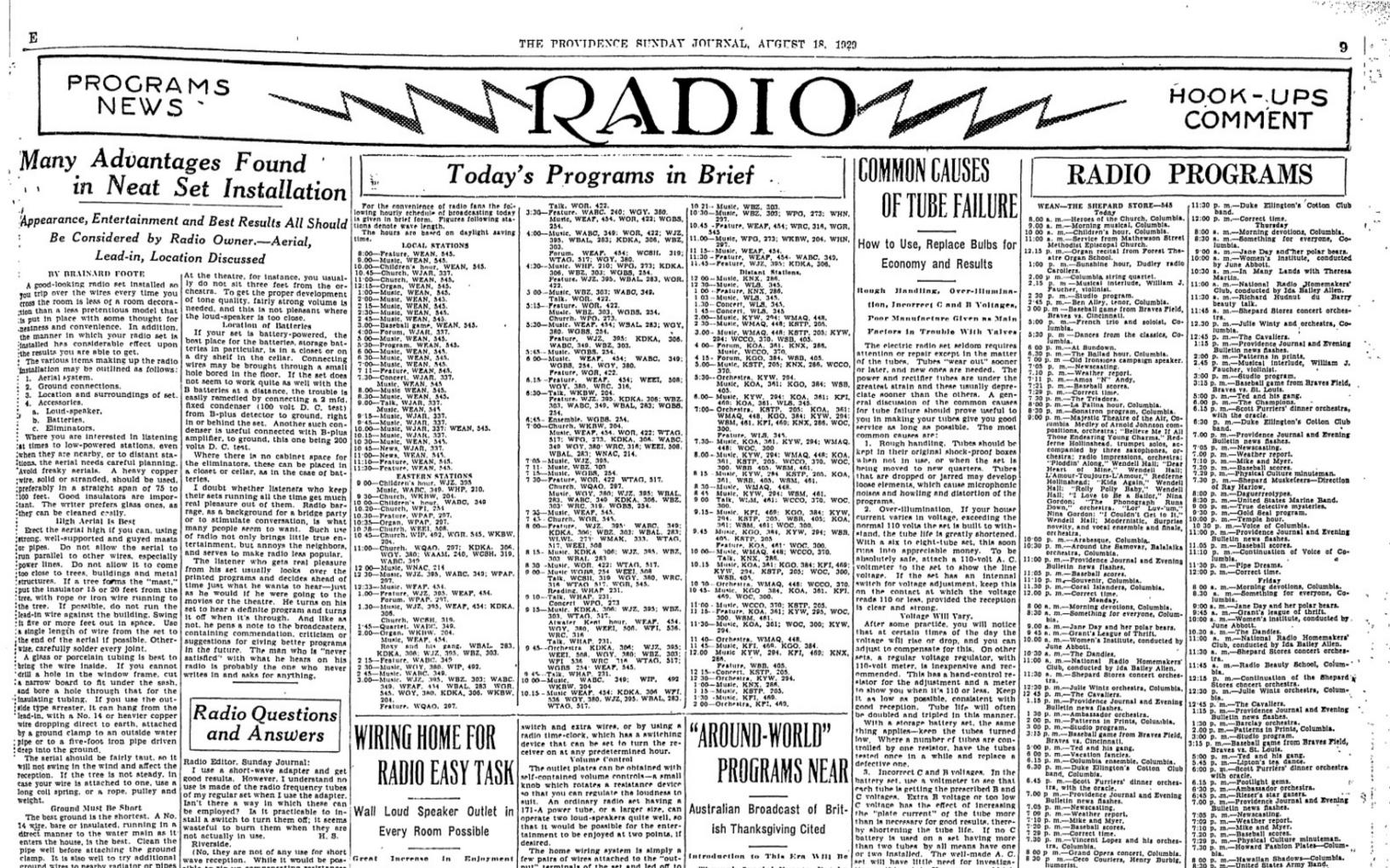


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clamp. It is also well to try additional ground wires to nearby radiator or pipes in the room. Sometimes two or three ground wires work best. Make the comparison on DX or weak stations.

If you are interested in receiving the main nearby stations only, pay as much attention to a good ground connection, but be less fussy about the serial. A

smaller serial or one indoors, will do. The best location, from the electrical ing the window runs short and direct to the set. Long dischart and direct the set. Long, devious wiring ove Providence. door and window tops for the lead-in in detrimental to results-except from the near-by and powerful stations. Usually such a location will fit in well with the surroundings and will permit neat wiring and easy operation of the set.

ind and power wires, as well as wires to the speaker, should be placed out of sight, tacked to the floor or wall if necessary. If you have a separate oud-speaker, you will find programs more enjoyable if you do not place it the set. Put it acro ss the of-doors.-Ed.) room. Maybe "distance lends enchant ment," but, at any rate, you will usually like it better if the speaker does not roar

right in your car as you adjust the act ANSWERS TO THE SUNDAY QUIZ 1-Providence has 295 miles of im-

proved streets. 2-Shellfish-especially oysters, clams and lobaters-is high in lodine con-

3-The nautical mile is longer than the statute mile by 800.2 feet. often cause trouble in a portable. How-4-The saying, "Cleanliness is next to ever, if your set must be carried around godlinets," is part of an expression in your travels or used where there is made by John Wesley in his sermon on no power supply, you should obtain a "Dress." He said: "Certainly this is a duty, not a sin. Cleanliness is next to select a good make. Conditions of space

-The golf course of the Rhode Island Country Club is in Barrington. 6-German, French and Italian are

mainly spoken in Switzerland. 7-Gene Tunney saw service with the Radio Editor, Sunday Journal: What is your opinion of a dynamic Eleventh Regiment of Marines during speaker installed in a cabinet? the World War. this be better than placing it in a large 8-A fabled mountain range in equa-

baffle-board? I have the chassis of torial Africa bears the name "Moundynamic speaker and would like your tains of the Moon." advice. -The name "Edna" means pleasure. Providence.

10-Fishing licenses are obtainable in Rhode Island at the offices of city and (For home construction, the baffleboard method is far better. If you intown clerks. 11-Irony is a subtle sarcasm, a mode tend to purchase a specially-constructed of speech conveying the opposite of cubinet-not a cheap one!- the cabinet what is meant; satire is a species of type will be all right, for it requires less literary composition originally in space, looks better and will work as verse and still generally so, in which well. A cabinet not scientifically built, contemporary vice and folly are held however, will vibrate and affect the reproduction .- Ed.)

Edgewood.

up to ridicule. 12-On account of the wide variety of orchids native to its soil. Panama is known as the "home of the orchid." My set is an affair using five My set is an affair using five tubes o 13-To be eligible for the presidency a the 201A-type and reproduction is man neust have resided in the United through a horn loud-speaker. I should States 14 years. He must, of course, like to install a cone speaker and would be American-born. 14-Unless it begins a sentence, the like to know if this will work all right. with my set. Will it give better tone? A. V. B. "ord "o'clock" should be spelled with

doctoring."-Ed.)

East Providence. tmall letters, not capitals. 15-According to the 1928 estimate. 1.-(The cone speaker will operate prop-500,000 people live in the Metropolitan rly and should give some improvement in quality. However, instead of chang-Area, of which Providence is the logial centre. ing the speaker, why not try first a power 16-The leu (value 50 1930) is the unit (tube in the last audio stage. This would of currency in Roumania make possible the biggest improvement

17-Jackie Concan, child screen actor. is now appearing in vaudeville. 18-Like Rhode Island, the State of

Maryland is distinctly separated by a bay into eastern and western shore parts Maryland is penetrated by Chesapeake bay.

19-The abbreviation "D Sc." stands for Doctor of Science. 20-The Hartford and Danielson pike pastes through the Rhode Island

towns of Johnston, Scituate and Foster is an advantage. 云

wave reception. While it would be possible to rig up compensating resistances to be switched in in place of the tubes t would not be worth while. They must be illuminated in order that proper current conditions may be maintained in the set .-- Ed.) Woodwork, Efe.

Radio Editor, Sunday Journal: BY BRAINARD FOOTE Please advise which is the better with There are lots of times when it would six-tube electric set-the magnetic or be mighty handy and satisfying if you could bring the radio entertainmen the dynamic-type loud-speaker.

A. L. P. out in the kitchen, upstairs to the de or bedroom, on the veranda or even to (If the set uses a power tube of the the lawn. Some folk seem to feel that 71 type or smaller, the magnetic type radio entertainment must be stiffly con

Great

will be satisfactory and provide suffifined to the living room. cient volume for the average room. If And it is not alone mere convenienc the set has a 250 or 210-type power tube that is served by your ability to brin or a push-pull circuit with 171 tubes or forth the radio voice or song where you want it. When someone is ill or conlarger, a dynamic speaker is suggested. A magnetic speaker will, however, give valescing, radio entertainment is the sufficient solume for a single room with most perfect form of diversion to while any set, but the dynamic is to be preaway the drogging hours-to lead the ferred if you like very strong volum mind away from suffering a bit-to use the set in a large room, hall or outbring the living, throbbing world to the

Increase in Enlorment

on who can't go out in it himself. All you require in order to accomplish Radio Editor, Sunday Journal: these ends is an inexpensive amount of wiring in your home or spartment. The Do you think a portable radio set is practicable instrument? How does i How does it ompare with a standard set?

A. A. S. well no matter if it is many feet removed from the set liself. The cost of install-(A portable set must be supplied with ing such wiring cannot be compared to battery power, and this usually means that of putting in electric wiring, for the less power supply than with the electric radio current calls for two small wires model. Smaller tubes must be used, oronly, and no costly metal tubing to run dinarily of the 199-type. These tubes are very critical, do not last as long and

them in. Outlets Available

Very nest and attractive wall outlet are available into which a loud-speaker ranch homes and planters' dwellings are may be "plugged" by the mere inseralso advocated by Mr. Caldwell. great deal of pleasure from it-if you tion of the plug in the jack. Two type

of radio wiring are available. Where the wires are to be concealed and weight dictate the use of parts that do not permit as satisfactory reproducwithin the walls, connections to the outlet plates are made from behind tion as does the electric outfit .- Ed.)

Where walls are hollow and wires hem. may be "fished" through easily electrician, this method affords the neat Would est result. In the second method, a different forn outlet plate is used, and the wires ar

up along the baseboard, the molding of loor. The wires selected are of a colo G. B. o harmonize with the wall or woodwork

o which they are attached. The usual points around the hous here it is desirable to have radio outets are as follows:

Kitchen. The housewife who like the morning programs devoted to homonomics, scientific cookery, etc., will welcome a amali-size loud-speaker the kitchen. Insemuch as the bulk of

such programs are "talks," it is not eccessary to have an expensive loud speaker such as is best for true musical eproduction. A small-size horn speaker turns the trick. In Dining Room

2. Dining room. Some listeners like music with their meals." In this case

little better grade of speaker is deired, and if the regular loud-speaker used for the set in the living room is detachable, this can be brought out for uch occasions.

tranda should be well protected against of the chimneys. Scrub the insulators rain. An extension cord-consisting of with a stiff brush and gasoline and afalthough the set might require a little 20 or 30 feet of rubber-covered wire, terward boil them in strong lye or wash-

speaker out on the grass. 4. Bedroom. Those who like the or making poor contact. Then look at The 112-A has two distinct advantages morning exercises or prefer to be awakover the 201-A as a detector. It is slight-ly more sensitive and thus will give betby the insistent alarm clock will find a er results on distant or weak signals. edroom outlet a great convenience. In It has about the same amplification con-

put" terminals of the set and led off to Amply Justifies Slight Expense various outlet plates in other rooms. The home handy man can put them in with-Involved .-- Connecting Cord Can out having to engage an electrician. Radio is something we get free, and Be of Color Harmonizing with full home radio wiring at its alight expense helps us to get even more benefit and usefulness from it. CHAOS THREATENS

nent.

Horn, newly-appointed general engineer South American Radio Channels Report of the National Broadcasting Company ed in Bad Shape. who made his first visit to Washingto A call for immediate steps to straightin that capacity recently, declared that

few pairs of wires attached to the "out-

en out the radio broadcasting wavethe day was in sight when we would b lengths of Bouth America, before the air rebroadcasting programs all around the channels of that continent become hope-Mr. Horn, who has just made a trip to essly overcrowded, is recommended by Caldwell, former Federal Radio

Europe, said that our introduction to this era would be through the broad Commissioner from New York. Reports from South American Importeasting of special events, rather than by ers of United States radio Arts Indicate the regular exchange of programs Taking the case of England, for ex that during the present Southern win-

ample, he pointed out an obstarle to the exchange in the five-hour difference in ter (June, July and August) the wavelengths there are already becoming cluttered up with heterodynes The individtime between here and there. For instance, they would be interested in our ual governments are issuing broadcasting licenses to their own stations, but no sporting events, notably prize fights. If we broadcast a fight at 10 or 11 o'clock at international authority has yet been set radio set is not tampered with at all up to co-ordinate these assignments night, as is usually done, it would and a loud-speaker functions just as throughout the South American contieceived in England between 3 and 4

clock in the morning, which would no turally prove quite a drawback. As Mr. Caldwell urges that the South American nations not delay a conference possible to rebroadcast a great Furopean and broadcasting reallocation, similar to As for the routine programs, after the those recently carried out on the conti-

nents of both Europe and North America. Higher power broadcasting stations in novelty wore off, there would be the question of how much the English, or South America to overcome the tropical hose of another nation, might care for static and carry programs to distant

our programs, or we for theirs. Mr. Horn said the European broadsating systems, as compared with ours,

Monotony Radio's Enemy

"Monotony is the enemy of radio," Mr.

forn said, "and if I made any criticism

of European programs. I would say it is

introduction to This Era Will Be

Through Special Events, Not by

Begalar Exchange of Programs

European Broadcasts Dull, Ex-

Citing the successful transmission of

the King's Thanksgiving services from London to Australia and the United

States as an example of progress, C. W

pert Says.

represented a difference between rigidly ABOUT RADIO SCHOOLS

controlled Government ownership there and a highly competitive system here Soundly Administered Repor 11050 There the public is given what the Gov-Large Student Bodles, ernment things it should have and here

While the passage of time has witpresed the passing of a good many radio hools, those remaining report a steady colume of business among men and young men who feel the urge either to proposition. become operators or service men. Most

of the radio school business is done by correspondence, although in a majority of instances it is possible for local students to attend the school and use lis

their monotony. They will have solid hours of heavy musical programs, heavy lectures or educational talks. Howworkshops and equipment. The soundly administered schools have led many students upward to larger salver, they have their hours for dance aries and greater opportunities in a field and lighter music. "It is not fair to them or to ourselves to say which countries have the best that still seems to have infinite potenbefore it. Incidentally, it is

rograms, because that would involve a learned from authorities on this particudifference in the temperaments of the lar form of education that virtually all nations. But here I will say that the of the fly-by-night schools which flour-European transmission is good, but their receiving sets are not up to our standished when radio first attracted widespread attention now have passed on to ards. This is due to the low purchasing power of some of the countries. New

sets are not purchased as frequently as Renewing Antenna. they are here and many listeners still use In order to have the receiver working arphones.

efficiently during the summer months. "Another disadvantage is the variation the antenna should be taken down and of the wave-bands. They have about examination made of the insulators to that we have here, but they go as high see if they are all covered over with as 1600 metres, with a commercial band thick layer of soot from winter fires in between. Thus, it really requires two that throw fine particles of carbon out sets to cover this wide range. ing soda before stringing them up again. can be employed to take the Next examine all the joints in the anance of about 10,000 miles, where tenna and resolder any that are weak

Every Other State. Bellef that every State in the Union will follow in the footsteps of California adopting legislation for the punishment of slander over radio just as a penalty is imposed for conviction of criminal libel, is held by Superior Court Judge Loon R. Vankwich of Los Angeles. authority on libel and former libel atforney for numerous California attor-Similarity between the two laws I shown in a statement by Judge Yank-wich published in Editor and Publisher. 5.45 j The new radio slander law is almost 7 00 tentical in wording to the criminal liber law and in reality involves no new prin

ples, Judge Yankwich is credited with aying. "Punishment by \$5000 fine or one rear's imprisonment of anyone using the radio or other mechanical device for 8-00 p

The well-made A. C.

set will have little need for investiga-

tion on this point. However, a good high

registance voltmeter will enable you to

test the various voltages quickly and to note whether they are correct. In ac-

cordance with the manufacturer's speci

4. Defective manufacture. Your de

pendence, for consistent good tubes, must be placed upon well-known and

eputable manufacturers. In addition

you will regularly patronize a good

caler for your tubes, you will become

nown to him and he will be dependent

or tube replacements. He will test your

present tubes and give you an hones

ecision as to the qualities of your pres-

ent tubes, before recommending addi-

RADIO SLANDER LAW

egislation Like California's is Seen for

8 00 p 8 30 p

norist.

9.00 p. m .- Physical Culture Magazine hour,

or two installed.

onal purchases.

cations

lander is provided in the law which was recently signed by Governor C. C. 'oung." Editor and Publisher states. "Basis for punishment of libel as he listening audience receives what it rime is the tendency to breach the temands. There they must pay a license peace." Judge Yankwich says, "and if fee, but here no charge is made for listhis is a valid ground for State interfe ence, then the dauger of such a breach is ening and it is altogether a good-will reater now from the radio than from

he printed word. He contends that peonie can be inflamed with the spoken word in a way which cannot be done by the printed word."

To Improve Reception.

An excellent method of improvising ounterpoise is through the use of the electric light wires. With the use of a light socket adapter plugged into the light socket and using the power lines as an aerial, these lines are really converted into an excessively long antenna. The better way of employing this antenns effect is to use it as a substitut

round or counterpoise. The light socket plug is a small unit that permits the user to make connections to the

The simplest form of underground wire of the usual aerial length, 75 to 100 feet. Ignition cable, such as used for high tension work in automobiles. is excellent for this purpose. The wire should be perfectly insulated from the

Columbia. Columbia. Columbia. Columbia, with George Rymer, tenor. 9:30 p. m.—La Palina Smoker, Columbia. 10:00 p. m.—Colster Radio hour, Columbia. 10:30 p. m.—Dixie Echore, Columbia. 11:00 p. m.—Providence Journal and Evening rectional effect of underground wires

 11:00 p. m.—Providence Journal and Evening Bulletin news fashes.
 11:05 p. m.—Bareball scores.
 11:10 p. m.—Ingraham's Paramouni Hotel For broadcast reception 11:10

 7.30 p. m.—Hawailan Shadows—Columbia.
 8.00 p. m.—Hawailan Shadows—Columbia.
 8.30 p. m.—United States Army Band.
 9.00 p. m.—True Story Hour, Columbia.
 10.30 p. m.—Hrener Tully time, Columbia.
 10.30 p. m.—In a Russian Village, Columbia.
 10.30 p. m.—In a Russian Village, Columbia. Celumbia. 9:30 p m -- United States Navy band, Columbia, 10.00 p.m.—Black Fiag Boys, Golumbia. 10.30 p.m.—Night Club Romance, Columbia. 11:00 p.m.—Providence Journal and Evening Builetin news fashes. 11:05 p.m.—Baseball scores. 11:10 p.m.—Paul Specht's orchestra, Colum-11:40 p.m.—Paul Specht's orchestra, Colum- 11:00 p. m.—Providence Journal and Zvening Bulletin news fashes."
 11:05 p. m.—Baseball scores.
 11:10 p. m.—Paul Specht's orchestrs, Colum-12:00 p. m .- Correct time. Baturday 8:00 a. m.-Morning devotions, Columbia. 8:30 a. m.-Something for everyone, Colum-12.00 p. m .- Correct time. bis.
9.00 a. m.—Jane Day and her polar bears.
10:00 a. m.—Magnwunkapog Centre artists.
10:30 a. m.—The Dandles.
11:00 a. m.—Gousin Charlotte's Music Club for children.
11:30 a. m.—Shepard Stores concert orches-Tuesday 8 00 s. m.-Morning devotions. Columbia. 8 30 s. m.-Something for everyone, Colum 9 00 a.m.—Jane Day and her Polar bears.
9 00 a.m.—Jane Day and her Polar bears.
9 00 a.m.—Sylpho Nathol sentinels.
10:00 a.m.—Women's Institute, conducted by June Abbott.
10 30 a.m.—The Olenwood Rangers.
10 45 a.m.—The Olenwood Rangers.
10 45 a.m.—The Dandles.
11:00 a.m.—National Radio Homemakers' Club, conducted by Ida Balley Allen.
11:30 s.m.—Shepard Stores concert orches-11:30 a. m.—Burpton Wintz orchestra, Columbia; tra. 12:30 p. m.—Julie Wintz orchestra, Columbia; 12:45 p. m.—Providence Journal and Evening Bulletin news fashes. 1:30 p. m.—Organ luncheon music, Colum-1:30 p. m.—Organ luncheon music, Columbia.
2:00 p. m.—Patterns in prints, Columbia.
3:00 p. m.—Bateball game from Braves Field, Braves vs. St. Louis.
5:00 p. m.—Scott Furriers' dinner orchestra with the oracle.
6:15 p. m.—Musical Vespers, Columbia.
6:30 p. m.—Musical Vespers, Columbia.
7:00 p. m.—Providence Journal and Evening Bulletin news flashes.
7:00 p. m.—Weather.
7:00 p. m.—Mether.
7:20 p. m.—Matheal scores.
7:30 p. m.—Vincent Lopes and his orchestra. 12.30 p m .- Julie Wintz and orchestra, Co-12.30 p m.—Julie Wintz and orchestra, Columbia.
12.45 p m.—The Cavaliers.
13 p m.—Frovidence Journal and Evening Bulletin news fashes.
1.30 p. m.—Barclay Orchestra.
2.00 p. m.—Patterns in Prints, Columbia.
2.45 p. m.—Musical interlude—William J. Paucher, violinist, Columbia.
3:00 p. m.—Prater Den Orchestra, Columbia. 3:15 p. m.-Baseball game-from Braves Field-Braves vs. Cincinnati. 5 00 p. m .- Ted and his gang. 5.30 p. m .- Ted and his gang visit Woon Golumbia. 8:00 p. m.—Rhodes orchestrs. 8:30 p. m.—The Romancers. Columbia. 9:30 p. m.—The Romany Patteran, Colum-10:00 p. m.—The Romany Patteran, Columm .- Show Polks, Columbia, m .- Hotel Biltmore Ensemb-notel Billmore Ensemble. m.-Scott Puriers' Dinner Orches-with the Scott crooning songsier. n.-Providence Journal and Zvening letin news flashes. n.-News flashes. 10 00 p. m .--- National forum, Columbia. 10:30 p. m .--- Jesse Grawford, poet of the er-Bulletin news flashes. 7:05 p. m.-Newscasting. 7:05 p. m.-Weather report. 7:10 Mike and Myer. 7:20 p. m.-Baseball scores. 7:29 p. m.-Physical Culture 7:30 p. m.-United Symphony United Symphony san. 1:00 p. m.--Providence Journal and Evening Bulletin news flashes. 1:05 p. m.--Baseball scores. 11:10 p. m.--Darsham's Paramount Hotel orcheatra. 12:00 p. m.--Correct time. Minutemer Orchestra, Co umbia. m -Joint recital, Columbia. m -Flying stories-Aviation news WJAR-THE OUTLET COMPANY-337 10:45 s.m.-First Church of Christ, Scientist, b. m. - fring non-columbia. Paul Whiteman hour.
 10.00 p. m. - Fada Salon hour. - Columbia.
 10.00 p. m. - Jease Crawford'a Bag of Tricks. 10:45 s.m.—First Church of Christ, Scientist, Services
4:00 p.m.—National "Sunday Forum, spon-sored by the Federal Council of Church-es of Christ in America. Services con-ducted by Rev. Raiph W. Sockman, pastor of Madison Avenue Methodist Episcopal Church, New York city, Music by oratorio choristers and Hart Giddings. organist.—National.
7:30 p.m.—Caoltol Theatre, National.
9:00 p. m.—Could Theatre, National.
9:00 p. m.—Could Theatre, National.
9:00 p. m.—Could Theatre, National.
9:01 p. m.—Could Theatre, National.
9:02 p. m.—Studebaker Champions, National.
9:03 p. m.—Biblical drama. National.
10:15 p. m.—Studebaker Champions, Nation-ali. "For Someone I Love," from "Sketch Book." Davis and Snyder, Champions, "When My Dreams Come True," from "Coccanuts," Berlin, Champions, with vocal chorus: "Song of India" (concert arrangement), Rim-sky Koraskow, Champions; to be se-lacted pience, "Singin" Rayoff and 11:00 p. m.-Jesse Crawing and Evening Bulletin news fisales 11:30 p. m.-Providence Journal and Evening Bulletin news fisales 11:35 p. m.-Baseball scores. 11:40 p. m.-The Dream Boat, Columbia. 12:00 p. m.-Correct time. 8 00 a. m .- Morning devotions, Columbia, 8.30 a. m -Something for everyone, Columbia
9:00 a. m.—Jane Dav and her Dolar bears.
9:45 a. m.—Grant's League of Thift.
10:00 a. m.—Women's institute, conducted by June Abboit.
10:70 a. m.—The Dandles.
11:00 a. m.—National Radio Homemakers' Club, conducted by ida Bailey Allen.
11:30 a. m.—Interior decorating, ida Bailey Allen. 2:00 m.-Shepard Stores concert orchestra 2:30 p. m.-Port Arthur orchestra. of india" tonoert arrangement, kim-sky Korsakow, Champions; to be se-lected, pisnos; "S'posin'," Razoff and Denniks. Champions; "Love Tale of Alsace Lorraine," Davis and Coats; "Come West, Little Girl, Come West," from "Whoopee," Kahn and Donaid-son," Champions; "Something to Live 2 45 p. m .- The Cavaller. 1:15 p. m .- Providence Jo ce Journal and Evening Bulletin news flashes. 1-30 p. m .- Barclay orchestra. m .- Patterns in prints. 3.00 p. m .- Studio program. 3.15 p. m .- Baseball game from Braves 10:45 p. m .-- Providence Journal and Evening Bulletin news fiashes. 3.15 p. m.-Baseball game from Braves Field, Braves vs. Cincinnati.
5:00 p. m.-Ted and his gang 6:00 p. m.-Pert Arthur orthestra.
6.15 p. m.-Variety program.
6.30 p. m.-Scott Furriers' dinner orthes-tra. with the oracle.
7.00 p. m.-Providence Journal and Evening Bulletin news fishes.
5:05 p. m.-Narastine. Monday. 9:30 a. m .- Record hour .-- Good groceries by Sally Bawyer. 11:00 a. m .- Musical program. 11:15 a. m .- Radio household institute, Na-7.05 p. m .- Newscasting. m .--- Weather report

11:15 s. m.—Radio household institute, National.
1:05 p. m.—Providence Journal and Evening Bulletin news flashes.
1:10 p. m.—Studio program.
1:30 p. m.—Weather report.
1:35 p. m.—Continuation of studio program.
6:45 p. m.—Providence Journal and Evening Bulletin news flashes.
6:50 p. m.—Produce market report.
6:50 p. m.—Produce market report.
7:00 p. m.—Radner Keenan, tenor, and Violetie Market. m .--- Uncle Red and his A. B C. Club. -Physical culture minuteman 1.35 p. m .- Grgan recital from Forest Theam .- Baseball scores. tre Organ School. 8:00 p. m.-Hank Simmons's Show Boat,

.

14

. m.-Edward Keenan, tenor, and vio-ette Marka. . m.-Baseball scores. . m.-Volce of Firesione, National. . m.-Ceneral Motors Family Parix, Valuani 7.55 p. m.-8.30 p 9:30

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Continued on Page Ten

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1

Detector Tubes

3. Porch and lawn. An outlet on the having a jack at one end and a plug at

ned by a musical program rather than stant and, in addition, a lower plate re- this case it is desirable that the set may properly installed and that the lead-in

ing or any projection in its path. Also be sure that

just reward.

vistance which for transformer coupling he turned on and off in the room, and strip is not entirely worn out. If it is,

this can either be done by a special replace it with a new one.

the lead-in and replace any torn or worn lephone insulation that rubs against the build

Juenos Aires, about 5000 miles.

Mr. Horn said that the Dutch were do ing very fine work by means of short waves in transmitting programs from Holland to the Dutch East Indies, a disthe programs are rebroadcast. He said also

service between Berlin and

IN MATTERS of buying and selling the Classified Columns are decidedly are necessary. belpful.

hat the Germans are operating a radio

they should be laid in the direction of the transmitting station and conse-quently receive maximum signals from 11:00 al' noints of the compass-three or four

75 or 100 feet of wires gives good results.

earth for best results. Owing to the di-

nower lines as a counterpolse. Underground Antenna. actial consists of a piece of insulated

power lines as an antenna. It is sugrested that one of these adapters be plugged in permitting the use of the



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