## RADIO LORE FOR NOVICE AND EXPERIENCED FAN

#### How Uncle Woodbridge's Radio Caught a Burglar, Red-Handed

The Loud-Speaker Did Its Work When a Charming Southern Girl Turned on the Power.—So the

Police Got Their Man

By C. L. FUNNELL. Uncle Woodbridge is one of those men door.

Who is liable to get an idea almost any

We were at breakfast the other morning when we got this letter from Sis telling us she was bringing home her zirl friend from Atlanta for the weekend. Sis is being finished at rayrock-on-the-Hudson, under the auspices of Miss Quint's School, where the inmates refer beloved preceptress as

"It would be a terrible thing," gloomed Uncle Woodbridge, "If our fair visitor from the South should be with us when the house was robbed."

"When were you planning to have the place burgled?" inquiried Jimmys

"Naturally I am thinking of preventive measures. When three homes on our street are entered within two weeks it is time to give the situation some thought. I should be consumed with shame if our fair guest should be subjected to scenes of violence during her brief stay with us."

"Exactly," agreed our revered uncle-"Let us look at the case with some logic. In the first place, all of these logic. In the first place, all of these of the pelighborhood robberles have taken place automatic plate. Gripped in her other automatic plate. The families have been with a baid head, in the exact crater. at the 'movies.' "The picturing hour." suggested

"And in tvery case the burglar has forced the front door-pure bravadoand gone through the house, taking only station. real valuables like cash and jewelry. In the South burglars of this kind are practically unknown and"-"They call 'em realtors down there,

"Practically unknown," repeated Uncle Woodbridge with dignity, "and on Saturday night we are certain to go to

"Just how do you deduce that?"
"Simplicity itself. Sis is conditioned in ethics and has to study every night at school. No 'movies' for her during the week. And this week Kneland Knockout is featured in 'Rhythms of Romance.' Now to forestall or apprehend the desknowledge of science to frustrate him. Put yourself in his place. You are entering a strange house. You have forced the front door. Is any, one home? Have they a gun? You are in a highly nervous condition. The least little thing may the South. break down your morale and make you turn and run. I propose that least little bridge. Don't you mean desperadio?

using for our prospective burglar. We will set up a mechanism whereby he will be greeted with a blare of sound the manute he opens our front door." "How are you going to be sure the tail in such a position that he will have

"My plan is positive, certain, scientific. First, we shall mount one of our cone-type loud speakers in the front hall. When we connect the loud speaker with the power amplifier and the amplifler, with our radio set, which we will leave tuned in on some station having a "You have observed the ingenious

light in Sis's closet when she opens th deer. I shall buy one of those switches and mount it on the front door. "I shall then connect this door nwitch with the battery circuit on the radio ing the door is greeted by the necessary

burst of sound. He then flees the place You have to concede it to Une that it wasn't a half bad idea. When we came home that night he had the contrivance hooked up, and it worked beautifully, It opened the front door for somebody she wouldn't yell "Migawd!" in his fa when the radio went off, We rigged

that we could use our set normally when we were all home, and then waited for Sis and Saturday. Both arrived on schedule, together with Miss Nancy Jane Donaldson, whose hair and eyes, if you are technically interested, are dark. Jimmy and I were careful to meet them at the station. We had been hearing from Uncle Woodbridge how Southern girls are walted on and protected and shielded from fatigue and worry. So we were all set to shield and protect Nancy Jane. I say we, and I was more than willing to do my share but for some reason Jimmy accepted

switch on the burglar embarrasser se

tecting, and I found myself talking to After dinner we heard Heavily go out, and our whole family prepared to go to the 'movies." Uncle Woodbridge set the burglar embarrasser circuit, but, due to the delicate manner in which Southern girls are reared and shielded, we decided to say nothing about the

full responsibility for shielding and pro-

against his invasion.

After the "movies" we went over to the Country Club and danced. That is Nancy Jane and Sis danced. Jim and I spent a half-hour trying to it.

dancing partners and then gave it up.
The market was long on men. As to
girls, anything was bid, with none of-Jimmy and I went out for a

'What is this famous burglar supposed to look like?" I asked.
"Well, according to the scanty police records, he is a tall, thin chap, almost entirely baid. They found out about the baidness through his nice maners. It seems he always takes off his hat when he runs into a woman in one of the houses where he is doing his stuff." "Probably a refined, professional man, But, of course, only the higher types are attracted to so fine a residence com-

from 14 young men and Uncle Wood-bridge away from a dozen young ladles, fed them all coffee and sundaes and started for home. The moon, as we drove into the yard, was under a wloud and, except for the small 20-watt lamp in the front hall, the house was dark. As we approached the steps Uncle

blare forth when we opened the front

Accordingly, he disappeared, and presently we saw lights in the living room, and Unc opened the front door for us.
"Lucky you remembered to bring along the back door key," I said to Unc. He drew me aside and lowered his voice. "That's the funny thing. I didn't have the key. The back door was open. I guess Heavily didn't quite close it when she went out."

It was just about then that I heard Sis begging Nancy Jane to show some-thing to the boys.
"All rahght," said Nancy Jane in her

soft, agreeable, protected voice. "Ah'il get it. It's in man hat box." And she strolled leisurely up toward her room. "I'il say this for Une's burglar chaser," said Jimmy when Nancy Jane had left us, "It seems to have kept the bundit agray."

bandit away."
"An dince of prevention," deprecated Unc. "Really a simple idea, but most effective, had the bounder picked us for a visit. Why can't a dishonest soul rob taxi drivers or ticket scalpers if he must rob? To me there is nothing more

brief stay with us."

'That's the second time you've called her fair. I'm hoping she's a ravishing, emotional, constant brunette, Anita Loos notwithstanding."

'I thought the point was burglary, us care and prevention," I suggested mildly.

From above came a bump, a yell and the sound of a heavy fall, like a couple of bags of pointees dropping on a grocery store floor. The yell was followed by grouns—male grouns. Jinny, Unc. and I started unsating three steps at a. and I started upstairs, three steps at a time, toward Nancy Jane's room.

At the top of the stairs she met us.

of the bald head was a blg red lump, "What happened?" demanded Jimmy, relieving our protected and shielded guest of the gun and the coat collar. Sis aircady was telephoning the police

"Ah found this mayan in mah room with mah mdel in his hayand, He poked that gun in mah face, so Ah dusted him over he haid with yo' loud speakuh. That horn thing that was awn the table "Ugh-" grouned the burglar reminis-

After the cops had come and gone we remembered to ask about the medal the burglar had attempted to steal. The medal, it appeared, was what SIs lead asked Nancy Jane to show us. She dropped a disk of engraved platinum into my hand.

\* "Awarded," said the legend, "to Nancy Jane Donaldson, 1925, Women's

Collegiate Revolver Champion." "Anyway," conceded Unc, "science played its part. It was a radio device that finally apprehended the desperado."

Our carefully reared, shielded and protected Southern brunette bathed Unc in a smile from Atlanta, the gateway of "You-all said desperado, Uncle Wood-

## RADIO HOME NOW DREAM REALIZED

Staten Island House Designed to Show Modern Pos-

sibilities.

By EVERETT M. WALKER Radio in the home is no longer conever, during recent months rapid strides have been made to improve the artistle appearance of radio apparatus

the radio receiver may take its place side by side with other products of industrial and artistic enterprise. In fact, it is remarkable that after five years of constant development radio broadcasting has firmly established tself as an indispensable institution in element in more than a million homes,

plete radio and electrically equipped end of the room. The loud speaker home is located at Starlight Road, and B battery eliminator are located frymes Hill, S. I., N. Y. The right on a small table about 15 feet from overlooks lower New York harbor. The the set. use is a modest home, constructed with the idea that its experiences and lessons may be applied on a reduced scale to the more modest home, or, on, the other hand, elaborated for the pretentious mansion. The basic principles, wwever, remain the same whether the

'in is reduced or expanded or otheris altered to meet individual cases. The radio house exemplifies the ideal home. It is designed to give a wholly.

ow and broader conception of one installations.

The radio house is an example of the circuit.

The radio wiring in the model house the radio wiring in the model house the recombished economically. and effectively in greatly increasing the usefulness of a single receiving set by the addition of a single distribution sys-

The house has three distinct radio re- radio designations, it is interesting to celvers—one in the living room, one in the master's room and one in the electrical contractor who did the electrical contractor who electrical contractor who electrical contrac The master set for the first 11001, gave the electricians the wring scheme including the porches and living room, is an eight-tube super-heterodyne regiver witht a loop antenny. This set supplies the input power for the loud. The "BX" wire used, incidentally, makes speaker directly opposite the receiver possible the transferring of the energy, and another in the dining room. It is both power and output, from the set to operated entirely from alternating cur-rent direct from the house lighting alon interference, damage to quality or service lines, including the lighting of the tube tiles filments. the tube filaments.

burglar radio circuit so it would not cated above the set, enables the op- ering on the cable.

## SHORT CIRCUITS



erator to turn the receiver on or off r transfer the set output to either or both of the two loud speakers. Conveniently located in the dining room is a two-gang switch which provides re-mote entrol of the living room set and

The main porch, which is reached through the living room, is completely Porch and Every Room is Equipped date the power loud speaker. During With Loud Speakers or Connec- may be transferred to the porch.

A time piece, which automatically o erates the switch, takes its place on the switches Facilitate Operations

Facilitate Operations will turn on the entire first floor instal lation. It may also be set to turn the receiver off.

The kitchen receiver is entirely bat tery-operated and employs the use sidered a hobby or a novelty, but a national institution for promoting chication and entertainment. Several of the house. Connection to both aerial years ago the radio set was to be found and ground are made at base receptacles in either the cellar or attic and it usually was a miserable junk pile. It was there to be heard, but not seen. Howturns it on and off. Due to the small size of the room a power speaker is not used.

THE SET UPSTAIRS

On the second floor, in the master's bedroom, is installed a six-tube superheterodyne receiver. This is located on a table at one side of the bed, while at the other side is a control panel having five "push" switches. This re-ceiver is partly operated from house curlaving established itself as a valuable rent and partly from batteries. The B battery supply is obtained from an elimi radio service is showing a tendency to out grow the confines of a single roon. from dry cell batteries. These are stowed What is believed to be the first com- away in a small built-in cabinet at one

> loud speaker with the necessary power supply. At the head of the guest's bed is a control panel having two switches. These enable the guest to turn the mas ter's radio receiver on or off and also the guest room speaker at will, provid ing the master has allowed the set to

remain tuned to a station.

By pressing the correct switch in the master's room either the receiver may now and broader conception of molern in the master's room or the guest room home installations.

the addition of a single distribution sys-tem with radio outlets or "feeders" in different parts of the house. places, fittings and face plates, the last inentioned being-sulfably engraved with A three-gang switch, conveniently lo- to the shielding effect of the metal cov-

## RADIO PROGRAMMES

casting the Mothers' Day programme at the National Cemetery, Arlington, Va., at 3:30 this afternoon, at which Vice President Charles G. Dawes and James l. Davis, Secretary of Labor, will among the speakers. At 7:20 to-night it will broadcast the Capitol Family con-cert, To-morrow, hesides its regular programmes, it will include a talk by Dr. Arthur II, Harrington of the Rhode Island Hospital for Mental Diseases, at 8:50 p. m. Tuesday, Ernest R. Noko will be heard on "Building Hazards," under the auspices of the Providence Safety Council. Wednesday's special number will be a talk under the auspices of the Rhode Island Mental Hyglene Society, at 9:05 p. m. Thursday, W. O. Bryant, director of the Roger Williams Park Museum, will be heard a 7:45 p. m., in a nature talk. The Andvake Singing Society will go on the air Friday night at 9 o'clock. In addition to these special attractions, the sta-tion's specialties will be heard all week. WEAN will broadcast this morning's service at the Mathewson Street Methodist Church at 10:15, the memorial service of the New England Association of Railroad Velerans, at Boston, at 2:30

p. m., and the evening service of Grace Church. To-morrow's programme will be featured by Shakespearean readings by the Basement Studio Group Shakes peare Players at 8 p. m. Tuesday evening at 7:45 it will broadcast the dinner speeches of the First Light Infangramme includes the Brown-New Hamp shire State College baseball game at Al drich Field at 3:15 p. m., and a radio play at 8:30. On Thursday evening the Globe Congregational Church choir of Woonsocket will be heard at 8 o'clock Saturday's feature will be the Brown-Providence College ball game at 3:17

WLSI will broadcast its usual pro grammes nightly except Saturday. WJAR-THE OUTLET COMPANY-305

5:30 p. m. Exercises for Mother's Day, Programme at National Genetery, Ar-lington, Va. 7:20 p. m. Musical programme by Maj. Edward Bowes and the "Capitol Fam-lly," Monday.

Monday,
10:00 a. m.—Housewives Hadlo Exchange,
A department conducted by Mrs. Wood
on all matters of household interest,
All questions submitted will be answered by radio,
11:00 p. m.—Studio programme, William J.
McKenna, bartione; Gecella Morrau,
planist; Alica McHugh Goughila, reader
11:30 p. m.—Weather report. plannic; Alica McHigh Goughlin, reader p. m.—Weather report, p. m.—Haseball scores, p. m.—Talk on aptometry, p.; m.—Musical programme by Mary Clark, Fedin Fedinan, Hanley Jair-ick, Elizabeth Frigault and George Kirk.

Glark, Fredin Friganit and George Kirk.

1. n. m.-Dr. Arthur H. Harrington, Ribodo Island State Hospital for Men-tal Diseases.

1. p. m.-A. & P. Gypsies.

2. p. m.-Grand opera, "L'Elisir D'Amore."

Tuesday. Tuesday.

p. m.—Providence lilitmore Concert En-semble, relayed from the hotel unde the direction of Erwin White, p. m.—Weather report, p. m.—Baseball scores, p. m.—Baseball scores,

pices of the Providence Safety Council,
to be given by Ernest R. Noke.

8:00 p. m.—"The Grand Prize Eurekas."

8:00 p. m. Gold Inst Twins.

9:00 p. m. Everedy Hour.

Wednesday.

10:00 a. m.—Housewives' Radio Exchange.
A department conducted by Mrs. Wood
on all matters of household interest.

All questions submitted will be noswered by radio,

10:45 a. m.—Hetty Crocker.

1:05 p. m.—Green Acre Ladge Orchestra
under the direction of Al Billincoff.

1:30 p. m.—U. S. Weather Bureau report.

1:30 p. m.—Chamber musicale.

8:30 p. m.—"2 and i Man and the Shinola

10:38.

8:30 p. m.—"Dayla Saxophone Octet."

8.30 p. m.—Tand 1 Man and the Shinola 18.30 p. m.—Thesball scores.
9.100 p. m.—Thesball scores.
9.105 p. m.—Sheaker under the auspices of the R. 1. Mental Hyglene Society.
9.15 p. m.—Ray's Revelers. Raymond R. Leonard, leader, banjo; G. Wright Briggs, Jr., plano; Samuel C. Palge, saxophone; Cyrus Bullock, trumpet; Robert Briggs, trombone; Ernest Thomas, drums; assisted by John Mansfield, baritone.
10:00 p. m.—Tabloid musicale. "Pednosse

Mansfield, baritone, p. m.—Tabloid musicale, "Princes: ida;" a Gilbert and Sullivan opera.

100; a Gilbert and Sullivan opera.

Thursday,'
10:00 a. m.—Pthetilla of the Mayflower Stores will talk to the Housewives.
1:05 p. m.—Mokeal programme.
1:30 p. m.—Weather report.
1:45 p. m.—Weather teport.
1:45 p. m.—Wature Talk,' under the auspices of Roser Williams Park Muscum to be given by W. O. Bryant, director.

cum to be given and rector.

7:55 p. m.—Baseball scores.

8:00 p. m.—Robert W. Power's HudsonEssex orchestra.

9:00 p. m.—Cliquot Club Eskinos.

10:00 p. m.—Cliquot Club Eskinos.

under the direction of Joseph Knecht.

Friday.

10:00 a.m.—Housewices Radio Exchange.

A department conducted by Mrs. Wood n .m.--Housewives Radio Exchange.
A department conducted by Mrs. Wood
on all matters of household interest.
All questions submitted will be answered by radio
a. m.--Betty Crocker of the Gold
Medal Homo Service Department.
p. m.---Howard & Harris.
p. m.---Weather report.

p. m.—Howard & Harris,
p. m.—Weather report,
p. m.—Howehall scores,
p. m.—Musical programme under the
direction of Elmer G, W. Smith,
p. m.—"The Penri Trio,"
p. m.—Andwake Singing Society, under
the direction of Intel O, Larron,
tenor; Arthur Kopstad, bartone; Oswald Harson, tenor; Ingeborg Harklow, planist.

low, planlet, p. m -- "Whittell's Angle-Persians" p. m -- Providence Biltmore Dance Or-chestra direct from the dhiling room of the Providence Ultimore Hotel Saturday. 1:05 p. m.—Musical programme, 1:30 p. m.—Weather report.

WEAN-THE SHEPARD STORIS-270 10:45 a. m.—Morning broadcast from Mathewson Street M. E. Church.
2:30 p. m.—Menorial service, New England Association of Railroad Veteraus, relayed from Jioston.
7:30 p. m.—Evgning broadcast from Grace Church.

Church, Monday,
11:55 a m,—Time signals,
12:00 m.—Concert orchestra of The Shepard
Colonial Restaurant, Harvid Sheffers,
director, 12:10 p. m. -- Weather report.

12:10 p. m.—Weather report.
12:15 p. m.—Kaha Troup Hawalian Quartel.
4:00 p. m.—Musical programme.
4:20 p. m.—Weather report.
0:30 p. m.—Weather report.
7:30 p. m.—WEAN Dinner Dance, Shepard Colonial Dance Orchestra.
7:30 p. m.—Talk, "Rheumatism."
8:00 p. m.—Heropolitan concert.
7:000 a. m.—Home Service Talk by Miss
7:1000 a. m.—Home Service Talk by Miss
11:55 a. m.—Time signals.
12:00 m.—Shepard Colonial Concert Orches-

tra.

12:15 p. m .- Kalua Troupe Hawalian Quartet.

4:00 p. m.—Organ recital by John Fitzpatrick, brondeast from Mathowson
Street M. E. Church.

4:30 p. m.—Weather report

4:32 p. m.—Plano recital by Mrs. Edna H.

Parks.

6:30 p. nn.—WEAN Dinner Dance, Jimmy Walsh and His Orchestra.

7:30 p. nn.—Boprano solos by Laura Sho7:45 p. nn.—108th anniversary dinner, First lakit Infantry Regiment broadcast from the Providence Illimora Hotel.

Col. Harold A. Braman of the Fret Light Infantry Regiment introducing the togstmaster, Ira L. Letts, Assistant Attorney General, Bpeakers, Senator Jesse H. Metcalf, J. Adonal Denvers of the L'Union St. Jean Baptiste d'Ameriquie, Gen. Georgo A. L. Dutonot, military attache of the French Embassy; Mayor Joseph H. Gainer, and His Excellency, Aram J. Pothier, Governor of Rhode Island.

Wednesday.

12:00 m.—Shepard Colomni Concert Cra., 12:10 p. m.—Weather report, 12:15 p. m.—Kalua Troupe Hawalian Quar 3:15 p. ni.—Baseball game, N. H. State vs. Brown, broadcast from Aldrich

vs. Brown, Dipagence 2.5.
Pield, 6:30 p. m.—Dinner dance.
7:30 p. m.—Rayner Trio.
8:00 p. m.—Hearthside Harmonizers of Luecrne.

8:30 p. m.—Complete presentation of the liadio Digest Mystery Play, "A Step on the Stairs,"

Thursday,

10:00 s. m.—Home service talk by Miss

10:00 a. m.—Hono servico\ talk by Miss Hiloda Hyde. 11:55 a. m.—Time signals. 12:00 m.—Shepard Colonial Concert Orchestra. 12:10 p. in.—Weather report. 12:15 p. in.—Iyalua Troupe Hawalian Quar-

12:16 p. m.—Fighua Troupe Hawatlan Quartet.

4:00 p. m.—Organ recital by John Fitzpatrick, broadenst from Mathewson Street M. E. Church.

4:30 p. m.—Weather report.

4:30 p. m.—Weather report.

4:30 p. m.—Houser dance.

7:30 p. m.—Houser dance.

7:30 p. m.—Houser dance.

7:30 p. m.—Houser dance.

8:00 p. m.—Frogramme by Globe Congregational Church choir of Woonsocket.

Mrs. Florence Burdakin Taylor, soprano; Miss Alice A. Williams, alto; Ernest C. Rose, tenor; Leonard W. Leavist bass.

9:00 p. m.—Salesmen's Frolic and Dance at Rhodes. Mai Hallett and His Arcadia New York Orchestra and Charles Culverwell and His Ripodes Orchestra.

Ecidax.

tra.
Priday.
1:55 a. m.—Timo alguala.
1:00 m.—Shepard Colonial Concert Orchestra. tra. 12:10 p. m.—Weather report. 12:15 p. m.—Kalua Troupe Hawaijan Quar-4:00 p. m.—Musical programme.

4:30 p. m.—Musical programme.
4:30 p. m.—Weather report.
6:30 p. m.—WEAN Dinner Dance, Shepard Colonial Danco Orchestra.
7:30 p. m.—A. E. Guerfin, baritone.
8:30 p. m.—Rick and Backer.
8:30 p. m.—Biehd skit.
9:30 p. m.—Itadio skit.
9:30 p. m.—Itadio skit.
11:00 a. m.—Homa Service Radio Club for Children under the direction of Miss Grace Harribine.
11:55 a. m.—Timo signals.
12:30 m.—Shepard Colonial Concert Orchestra.

tra, 12:10 p. m.-Weather report: 12:15 p. m.-Kalua Troupo Hawalian Quarict.

5:15 p. m.—Banebull game, Providence College vs. Brown University, broadcast from Aldrich Pield.

6:39 p. m.—Shepard Colonial Dinner Dance.

8:10 p. m.—"Pop" Concert, broadcast direct from Symphony Hall, Boston. 10:15 p. m.-Dance music

MISI-THE LINCOLN STUDIOS—44 Monday, 9:00 p. m.—Warwick Ginger Ale hour, Tuesday, 8:00 p. m.—Biltmore Dance Orchestra un-der direction of Dance Orchestra un-der direction of Dance Orchestra un-wednesday, 5:00 p. m.—The Hook Shop reading, 7:45 p. m.—Providence Real Estate Ex-change, Appraisal Board.

WEST-THE LINCOLN STUDIOS-441

### 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 an nouncements. Figures following stations denote wave length.

Special, WFAA, 476.

6:00—Dinner concert, WBZ, 333.
Orchestra, WEAF, 492.
Concert, WEEI, 349.
Jazz band, WICA, 241.
Sacred concert, WOO, 506.
Concert, KNX, 357.
6:10—Church, WCCO, 416.
Children's Hour, KDKA, 309.
Concert, WOAE, 461.
Sib—Orchestra, KSD, 543.
Concert, WCAE, 461.
Sevensong, WIAB, 309.
Organ, WLIT, 394.
Special, WGY, 379.
News Bulletins, WNAC, 259.
6:45—Church, WNAC, 289.
7:00—Mother's Day programme, WIZ, 333.
Orchestra, WOK, 217.
Orchestra, WIZ, 325.
Orchestra, WIZ, 326.
Church, WIP, 508.
T:50—Church, WIP, 508.
T:50—Church, WIN, 381.
Venpera, KGO, 261.
Church, WMK, 269.
String enaemble, WMCA, 341.
Tib—Church, WKRC, 328.
(Church, WKRC, 328.
(Church, WKRC, 328.
(Church, WKRC, 338.
Church, WKRC, 338.
Orchestra, WIZ, 333.
Special, WIZ, 335.
Church, WGR, 379.
Concert, WGY, 379 The hours are based on daylight saying time LOCAL STATIONS 10:45—Church, WEAN, 270. 2:30—Special, WEAN, 270. 3:30—Mother's Day pro WJAR, 305. COITATE CWCT-10-TUO | 000-Children's Hour, WJZ, 625. 9:30-Sunday School, WGY, 370. 9:50-Church, WBZ, 331. 10:00-Church, WGY, 370. Special, WEAF, 492. 10:20-Church, WH, 394. 10:20-Church, WH, 594. 10:20-Church, WH, 594. 10:20-Church, WJR, 517. Special, WKG, 620. 10:30-Church, WJR, 517. Special, WKG, 620. 10:45-Church, WOO, 508. Church, WGR, 319. Church, WGR, 319. Church, WHAR, 275. 10:50-Church, WHAR, 275. 10:50-Church, WRAG, 280. 11:00-Church, WRAG, 280. 11:00-Church, WGA, 309. Church, WGA, 309. Church, WGA, 309. Church, WGA, 311. 10:50-Church, WGA, 321. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WHAR, 389. 12:30-Church, WH, 381. 12:50-Church, WGAP, 409. Church, WGAP, 409. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WGAP, 409. Church, WGAP, 409. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WGAP, 409. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WH, 381. 12:50-Church, WGAP, 409. Church, WHAP, 280. Concert, WHAP, 280. Concert, WHAP, 280. Concert, WHAP, 280. Church, KNA, 337. Violinist, WEMG, 280. Church, KNA, 337. Violinist, WEMG, 280. Church, WHAP, 210. Porun, WJZ, 525. Sunday school, WGO, 508. Special, WEAF, 402. 2:35-Church, WGAP, 409. Church, KGO, 301. Bhle class, WH, 361. Church, WHAP, 210. Porun, WJZ, 525. Sunday school, WGAP, 280. 2:45-Sernon, WHAP, 258. Church, WGAP, 492. Crehestra, WGBB, 316. Address, WRAP, 258. Concert, WHAP, 240. 3:55-Vespers, WGAP, 495. Concert, WHAP, 240. 3:55-Vespers, WGAP, 492. Concert, WHAP, 300. Concert, WHAP, 3 8.15—Raseball scores, WOC, 484.
8:30—Church, WSM, 282.
Church, WHEO, 285.
Church, WOC, 484.
7:31k, NNN, 337.
8:46—Chines and sermenette, WHAI, 226.
9:00—Violinist, WGY, 372.
Special, WTAM, 389.
Concert, WHAR, 275.
Orchestra, WJZ, 525.
News bulletins and baseball scores, WPG, 299.
Address, WNGA, 341.
Concert, WBM, 266.
9:15—Atwater Kent hour, WWJ, 352. WCAE, 461; WCAP, 483;
WCCO, 416; WEAF, 492.
WEBI, 349; WGR, 319; WSAI, 326.
0:45—Special, WSAI, 326.
9:45—Special, WSAI, 326.
10:00—Church, WSB, 428.
Opera, WGBS, 316.
9:45—Special, WSAI, 326.
10:00—Violinist, WJZ, 725.
Organ, WG, 299.
Planist, WFAA, 475.
10:40—Church, KNA, 337.
Concert, WGBS, 316.
10:30—Church, KNA, 325.
10:40—Church, KNA, 325.
10:40—Church, KNA, 325.
Concert, WGBS, 316.
11:50—String ensemble, KFI, 467.
Chapel, WOAW, 325.
Church, WFAA, 476.
Concert, WRAC, 476.
11:50—Trio, KFI, 469.
Organ, WCO, 361.
11:45—Church, KGO, 361.
12:15—Dance music, WKRC, 326.
1:00—Dance music, WKRC, 326.
1:00—Dance music, WKRC, 326.
1:00—Dance music, WKRC, 326.
1:00—Dance music, WKRC, 326.
2:00—Orchestra, KFI, 469.
Orchestra, KRN, 337.

8:00 p. m .- Scattergood Furniture Enser nic.
9:00 p. m.—Dutec W. Flint Corporation.
Thursday.
8:00 p. m.—Rumford Baking Powder Com pany. 9:00 p. m.—The Church Ticket Agency hour. Friday. 8:00 p. m.—Guernacy Shop Mate Quartet, 9:00 p. m.—Grebe Synchrophase Ensemble

OUT OF TOWN STATIONS To-Day

CKAC-MONTREAL-411. 3:45 p. m .- Orchestral .concert. KDKA-EAST PITTSBURGH-309

:00 s. m.—Church service. Presbyterian Church, Pittsburgh p. n.—Children's period, conducted by Rev. David Lang, Shady Avenue Pres

Rev. David Lang, Shady Avenue Presbyterian Church, Pittsburgh.

6:30 p. m.—Dinner Aoneert.

7:15 p. m.—Basehall scores and chimes from the Calvary Episcopal Church, Pittsburgh.

7:43 p. m.—Service of the Pirst United Presbyterian Church of the Northside, Pittsburgh, Rev. J. Alvin Orr, pastor.

KFI-LOS ANGELES-467 KFI-LOS ANGELES-467
2:00 p. m.—Morning services, direction Los Angeles Church Federation.
8:00 p. m.—Vesper services by Beverly Hills Community Church Choir.
10:30 p. m.—Kirl special.
11:00 p. m.—Kirl special.
11:30 p. m.—Jin, Jack and Jean Trio.
Gogo Helanger, soloist.
12:00 a. m.—Organ recitat, Dan L. Melariano at the console.
1:00 a. m.—Jazz band.
2:00 a. m.—Orehestra.

1:00 a. m.-Jazz band. 2:00 a. m.-Orchestra. KGO-OAKLAND-361. 3:00 p. m.—Trinity Episcopal Church service (San Francisco); Rev. Charles P. Deens, rector. Sermon subject; "The Modern Mother and the Youth Movement." ment."
7:30 p. m.—Vesper services, Graco Cathedral, San Francisco,
11:45 p. m.—Trinity Episcopal Church service.

SGW-PORTLAND-491.

2:25 p. m-Service of First Presbyterian Church.

11:30 p. m.—Service, East. Side Baptist Church.

1:00 a. m.—Orchestra. KOA-DENVER-322, ROA-DENVIII-322,
p. 10.—Service of Trinity Methodist
Episcopal Church, Rev. Loren M. Edwards, D. D., pastor.
p. 11.—Sunday afternoon concert from
Denver College of Music studies, featuring Karl O. Staps, organ selections, and Elwin Smith, tenor solos,
p. 11.—Service of Trinity Methodist
Episcopal Church. 10:40 p. m.—Ser

Episcopal Church. KNX-LOS ANGELES-337. 2:00 p. m.-First Presbyterian Church o , Hollywood, Rev. Stewart P. McLen

8:50 p. m.—Cary team of cinema chat by Heleno Sullivan, film star. 10:30 p. m.—First Unitarian Church, 12:50 a. m.—First Presbyterian Church of Hollywood, a. m.—Beverly Hills Nurseries pro-1:00

KSD-ST, LOUIS-515 6:15 p. m.-Orchentra. KYW-CHICAGO-536

12:05 p. m.—Central Church service, broad-cast from Orchestra Hall, Chicago, Rev Frederick F. Shannon, pastor, 5:30 p. m.—Studio concert. 8:00 p. m.—Chicago Bunduy Evening Club service from Orchestra Hall, Chicago, 10:30 p. m.—Classical concert.

WAAM-NEWARK-263
11:00 a. m. Service of Second Presbyterian
Church, Rev. Lester 11. Clee, pastor. WRRM-CHICAGO-226 1:30 p. m.—Bagred concert. Numbers by Paul Jacobson, violinist; Cecile Winnie, hass-baritone; Paul Crunw baritone, and Vinzie Lindhe, planis 5:00 p. m.—A munical medley by the El Mandolin Club. 6:00 p. m.—Orchestra. 9:00 p. m.—Orchestra.

9:50 a. m.—Church services from Tele Church, Boston. 6:60 p. m.—Golden Rule Hour of the N. East Relief. 6:00 p. m.—Sunday evening dinner conc. 7:00 p. m.—Special Mothers' Day i. gramme, presented by Milton Loc No. IX, K. of P. 6:00 p. m.—Cantata, "Eather,"

WCAE-PHTTSBURGH-181 I. m. Service from Rodef Sha 10:45 n. M. A. Service from Rodef
Temple.
4:00 p. m.—Dr. S. P. Cadman.
6:30 p. m.—Dinner concert.
7:20 p., m.—Capitol Theatre Gang.
9:15 p. m.—Atwater Kent.

WCAP—WASHINGTON—169
12:00 p. m.—Service from Christ Episor Church of Washington, Rev. Calv E. Buck, pastor. 5:00 p. m.—Mervice from Washington thedral, held in Bethlehem Chavel 7:20 p. m.—Special musical programme 9:15 p. m.—"Atwater Kent Radio Hotr.

WCCO-ST. PAUL-MINNEAPOLIS—4.

12:50 p. m.—Hennepin Avenue M. E. Chu
Minneapolis, Rev. Lucius H. Es
D. D., pastor.

6:10 p. m.—Hope of Hope Presbyte.
Church, St. Paul, Rev. H. C. Swea
gen, D. D., pastor.

7:50 p. m.—Second Church of Christ, Sc.
11:50 p. m.—Atwater Kent Hour,
11:30 p. m.—Municipal organ recital,
lugo Philler Goodwin,

WCAU\_PHILADELPHIA\_277 11:00 a. m.—Services from the First farlan Church, Rev. Frederick Griffin. 5:00 p. m:—Recital and undenominati-church service. WCX-DETROIT-517.

WEMC-BERRIEN SPRINGS 56. 0 p. m.—Trinity Studio Chorr, and mon by pastor, Sterling B. Sia "Patherhood of God." 2:00 p. m.—Kenneth Hagen, violinist. 10:15 p. m.—Trinity Studio Choir and

WEEL-BOSTON-349. WEEL-ROSTON-349.

2:00 p. m.—Sager's Hour of Hospita
3:00 p. m.—Mother's Sunday programm
5:45 p. m.—The Priendly Voice intervieby an Average Listener.
0:00 p. m.—Orchestra.
7:20 p. m.—Maj. Howes and Capitol P

7:20 p. m.—Maj. Bowes and Capitol I ily. 9:15 p. m.—Atwater Kent Radio Hour. WEAF-NEW YORK-492.

WEAF—NEW YORK—402.

M. m.—Annual communion break by the Holy Name Socify of the Hole Department for Brooklyn Queens.

M. m.—Interdenominational of the Brooklyn Queens.

M. m.—Interdenominational of the Services under the auspices of Greater New York Federation Churches. Special "Mother's Day" servance. Address by Rev. Normas Peale, pastor of Kinga Highway Modist Church. Brooklyn.

m.—'Mother's Day" program direct from Arlington, Va. Invoca by Rev. James Montgomery, char of the House of Representatives.

M. H. McClury, national president the American War Mothers, introing Mrs. Lindley Hadley, president the Congressional Club. Mrs. Lit. Hadley introduces the master of monica, the Vice President. Cen Dawes. Music by the United Starmy Hand, Address. "Our Mothly James J. Davis, Secretari Labor.

D. m.—Musical vespers by the Fee Labor.
5:00 p. m.—Musical vespers by the Fed
6:00 p. m.—'Mothers' Day' progra
under the direction of Sophio
Leeb, president of the Child We
Committee of America. Talk by
Alfred E. Smith, wife of the

way. His idea was to switch off the

ernor of New York, p. m.—Cathleen Stewart, planist, p. m.—Musical programme by Edward Bowes and the "Capital ily."

9:15 p. m.—Atwater Kenn Tink Floor len McQuhae, tecor, and continue 0:45 p. m.—Orechand Songer, Milecon.

#### RADIO PROGRAMMES

Centinued from Page Fourteen. WFAA-DALLAS-476. m.-Farmers' hour, brief address,

music. p. m.—Radio Bible class. p. m.—Leland Johnson, planist and p. m.—City Temple (Pressyterian), service, Dr. B. P. Fullerton, pastor. a. m.—Cyrus Barcus, cornelist, in sac-red music. a. m.—Orchestra.

WFI-PHILADELPHIA-394. m.—Chapel service under the auses of the Church Federation of liadelphia, conducted by Rovomas C. Pollock.

WGBS-NEW YORK-316. WGBS—NEW 101R—316,
p. m.—Orchestra.
p. m.—The Church of the Transfiguration—"The Little Church Around the
Corner"—Devotions; the Rev. Randolph Ray, D. D., rector.
p. m.—Grand Opera "Manon," by p. m.—Granu Opera Nassenet, p. m.—Ukrainian Musical Circle pro-gramme.

WGR-BUTTALO-310 a. m.—Service, direct from the West-mineter Tresbyterian Church, Rey. Samuel V. V. Holmes, minister, p. m.—Service from the Central Pres-byterian Church, Rev. It. J. MacAl-pine, Minister. m .- Atwater Kent Hour.

WGY-SCHENECTADY-379

WGY-SCHENEUTADY-379
a, m.—Half-hour chime programme,
a. m.—Service of Grace Episcopal
Church, New York, Rev. W. Russell
Bowie, rector,
p. m.—Musical programme,
p. m.—Organ recital by Elmer A. Tidmarsh, broadcast from Union College
Chapel, Schenectaty, N. Y.
p. m.—Mothers' Day programme,
p. m.—Half-hour chime programme,
p. m.—Service of Grace Episcopal
Church, New York,
p. m.—Orchestra,
p. m.—Orchestra,
p. m.—Violin recital, by Godfrey Ludlow.

WHAP—NEW YORK—240
n. m.—Selections from the Bible and
Science and Health, with Key to the
Scriptures, by Mary Baker Eddy, read
by Augusta E. Stetson, O. S. D.
p. m.—Concert of sacred music.
p. m.—Mary Ray Pinney, organ recital.

WHAR-ATLANTIC CITY-275 WHAR—ATLANTIC CITY—275
a. m.—Service of Chelsea Baptist
Church, 'Dr. Thomas J. Cross, pastor.
p. m.—Short sacred recital.
p. m.—Mothers' Day sermon, by the
Rev. Henry M. Mellen, pastor First
Presbyterian Church.
p. m.—Service of Chelsen Baptist . m .- Mothers' Day concert.

WHAS-LOUISVII.LE-: 199
p. m.—Services, under the auspices of
the Broadway Bartist Church; the
Rev. Dr. Spencer Tunnell, pastor,
p. m.—Choral evensor service, from
Christ Crairch Cathedral.

WHN-NEW YORK-361

WIN-NEW YOUR-Add

a. m.—Calvary morning services,
p. m.—Organ recital,
p. m.—News and sports,
p. m.—Queens County Christian Endeavor programme,
p. m.—Radio Bible class,
p. m.—News and sports,
p. m.—Dance orchestra,
p. m.—News and sports,
p. m.—Once error,
p. m.—Once orchestra,
p. m.—Orchestra,
p. m.—Orchestra,
p. m.—Orchestra,
p. m.—Sophie Tucker's Playground,

WIP-PHILADELPHIA-508 m.—Service of Holy Trinity Church, v. Floyd W. Tomkins, pastor.

WJR-DEFROIT-517 .-First Baptist Church of Por

WJZ-NEW YORK-455 WJZ-NEW YORK-165
m.—Children's hour,
m.—West End Presbyterian Church,
m.—Sunday radio forum,
m.—St. George's vesper service;
m.—Concert orchestra.
m.—Variety programme.
m.—Concert orchestra.
m.—Godfrey Ludlow, yiolinist.

WERC-CINCINNATI-326 m.-Service of Walnut Hills Chris-ian Church, Rev. J. J. Castleberry, m.—Classical programme. m.—Late dance programme

WLIT—PHILADELPHIA—394 m.—Orchestra.
m.—Organ recital by Walter St.
lairs Knodle.
m.—Concert orchestra.
m.—Symphony orchestra.

WLWI-NEW YORK-288 m.-Paulist choir with sermon Rev. Albert Stern.

WMAK-LOCKPORT-266 W.MAR-UCATURY-208;
L. m.—Service from First Presbyter:an Church, Rev. Stewart M. Robinson, pastor.
b. m.—Service from Churchill Tabernacle, Buffalo, Rev. Clinton Churchill,

WMCA-NEW YORK-341 m.-Services, First Church

WNAC-BOSTON-280

morial service of New Eng

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K FOR MR. N. FERRI

6:35 p. m.—Baschall results, news bulleting 6:35 p. ni.—Basedali results, news bulletins and weather report.
6:45 p. ni.—Service, broandcast from the Park Street Congregational Church, WNYC—NEW YOHK—526.
10:20 n. m.—Communion breakfant of Fire Department Holy Name Society.

WOAW-OMAHA-526. m.-Chapel service, Rev. R. 3:30 p. m.—Classical programme. 11:00 p. m.—Chapel service.

WOC-DAVENTORT-484.
m.—Old Folks' musical programs
m.—Baseball scores,
m.—Church service.
m.—Musical programme.

WOK-CHICAGO-217. m.—Dance orchestras. W00-PHILADELPHIA-508. 10:45 a. m.—Services from Bethany byterian Church. 2:30 p. m.—Hethany Sunday School, 6:00 p. m.—Sacred Recital.

WPG-ATLANTIC CITY-200.

WPG-ATLANTIC CITY-299.

8:15 p. m.—Organ recital.

4:15 p. m.—Community vocal and instrumental recital, St. James Episcopal Church.

9:00 p. m.—Last-minute news flashes and baseball scores.

9:15 p. m.—Concert orchestra.

10:00 p. m.—Concert by Amerita M. Sesinger, soprano; Louis de Laurentis, tenor; Arthur Scott Brook, organist.

WREO—LANSING, 285.

a. m.—Chimes from Belfry Plymouth Congregational Church, and services. Rev. Edwin W. Bishop, D. D., pastor. P. m.—Services from Central M. E., Church, Rev. Frank Kingdon, pastor. WRNY—NEW YORK—258.

p. m.—Health talk.
p. m.—Franco Violin Ensemble.
p. m.—Grancers d'Ocuneil, violinist.
p. m.—Dr. Reisner's Hour of Religion.
p. m.—Coradette Hour.

WSAI—CINCINNATI—326.
12:00 fn.—Services from the Avondule Methodist Episcopal Church, Rev. P. II.
Murdick, pastor.
8:45 p. m.—Chime concert and sermonette.
9:15 p. m.—Atwater Kent hour.
9:45 p. m.—Community Chest programme.

WSB—ATLANTA—428.

11:30 a. m.—Agoga Sunday school programme from Baptist tablernacle.

12:54 p. m.—First Presbyterian Church service, Dr. J. Sprole Lyons, pastor.

7:00 p. m.—Sacred concert.

9:30 p. m.—liaptist Tabernacle services, Dr. Will H. Houghton, pastor.

WSM-NASHVILLE-282.

8:30 p. m.-Service of First Presbyterian
VILLE-2 -N ASH SM ...W etno etnol
Church, Rev. James J. Vance, pastor.

WW.J—DITTROIT—352.

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

3:00 p. m.—Organ recital.

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Number. RJ. 1925

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7:20 p. m .-- "Capitol Theatre Family." 0:15 p. m .-- Operatic stars.

WTAG-WORCESTER-268. 4:00 p. m.—Musical programme. 7:20 p. m.—Maj. Edward Bowes and Capitol Family.

WTAM-CLEVELAND-389, 12:00 m.—Church services from The Temple, 4:00 p. m.—Concert orchestra. 8:00 p. m.—Orchestra. 9:00 p. m.—Fireside programme.

To Build's Loop. A loop one foot square will work with sensitive receiver. Set the two cross-deces in the shape of an X and attach the upright piece to one of them. Cut slots in the end of each of the four ends of the crosspicees to receive four pieces of hard rubber 7x1x14-inch. Now wind 26 turns of loop wire or stranded single lamp cord 14-inch apart about the ubber pieces set perpendicular to the frame of the loop.

Attention to Telephone Cord. A' telephone cord connected with loud speakers is very delicate and should be speakers is very urneate and should be carefully watched. A twist in the cord might lead to some of the filament within being broken. This, in turn, would produce scratchy noises which would be olamed generally on static.

Wood Panels for Test Work. Inexpensive wooden panels for experimental sets may be made of maplewood saturated with linseed oil. If the wood has been previously sandpapered it will have a neat appearance and may, be easily polished after it has been oiled.

To eliminate low-frequency noises in ody-capacity eliminator, use several stead of sheets of metal.

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plaining of "too much talk" the American radio public begins to complain of too much music. SOS has been used universally us the wireless distress signal by wireless operators since 1911. Previous to this

the distress signal was CDQ. The output of companies manufacturing radio equipment in the United States is now valued at about \$650,000. 000 a year, as compared with \$2,000,000

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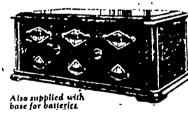
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