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RED BOOK OF RADIO

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WEEKLY

*The Radio Authority
of the
Pacific Coast*



Georgie Fabregat — Tivoli Theatre — KMIC

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Latest Technical Developments in This Issue
Vol. XI DECEMBER 18-24, 1927

No. 25

ZENITH

TRADE MARK REG.

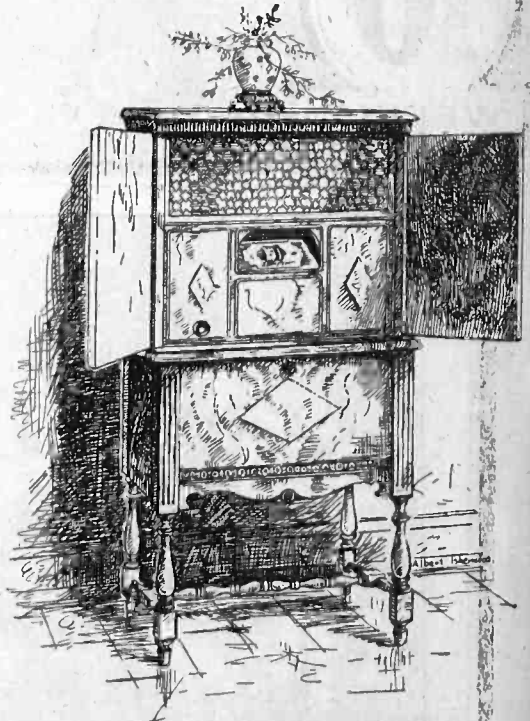
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"The Red Book of Radio"

CLOYD MARSHALL, JR.
Editor

K. G. ORMISTON
Technical Editor

H. C. CHARLES

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Vol. XI Los Angeles DECEMBER 17, 1927 San Francisco No. 25

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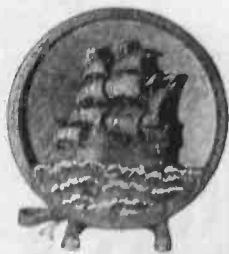
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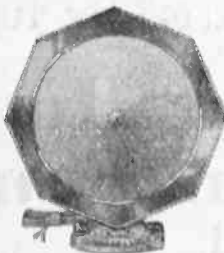


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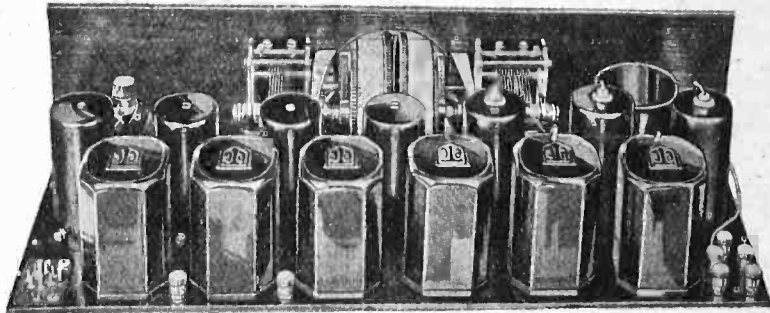
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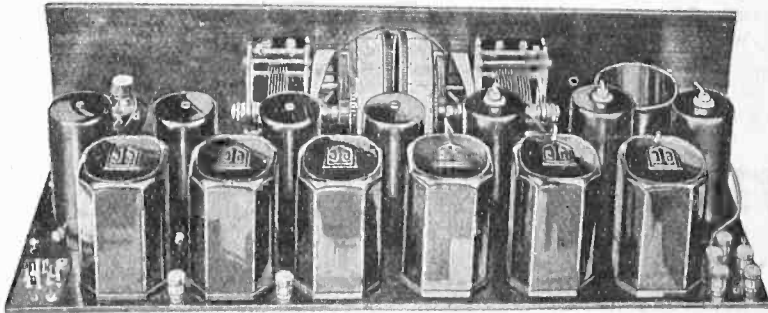


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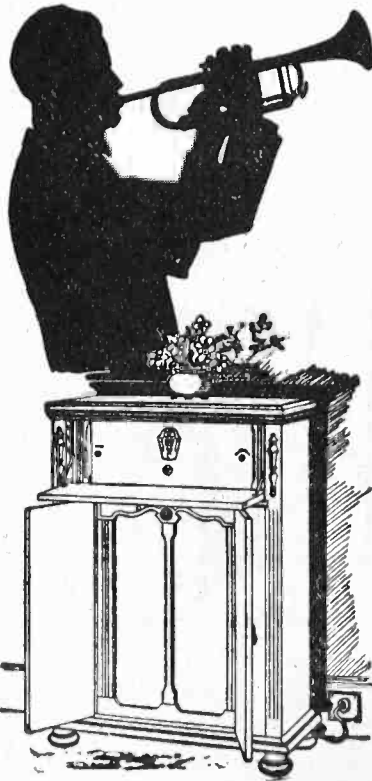
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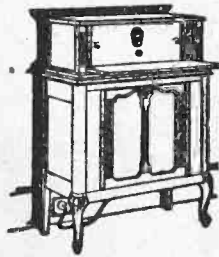
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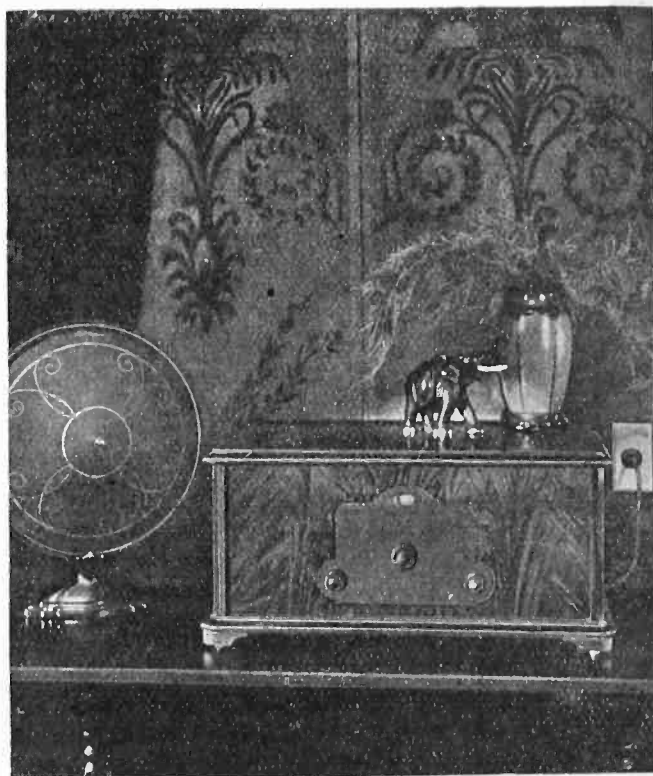
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Radio Topics of the Day

A Weekly Review of Radio News, Thought and Opinion

COMMISSIONERS FACE CONFIRMATION ORDEAL

Federal Radio Commissioners Caldwell (R) of New York, who once before was turned down, and Pickard (D) of Kansas, and Lafount (R) of Utah, recess appointees, must now go on the grill to be confirmed or rejected by the Senate.

When Mr. Caldwell was up before it is said the principal thing held against him were his writings as editor of a New York radio publication. Mr. Caldwell vigorously opposed the idea of a Radio Commission. Likewise, it was reported that he was the avowed candidate of and had the backing of three of the largest radio concerns in the country. Whether or not the Senatorial opposition to these points has died down will be revealed in the forthcoming meetings of the Senate Commerce Committee, of which Senator Jim Watson (R) of Indiana is chairman, and to which committee the nominations will be referred.

Commissioner Caldwell has denied a prevalent report that if confirmed by the Senate, he would immediately resign.

"The term is for five years," Mr. Caldwell said, "and if confirmed that would be the period I would expect to serve."

In the case of Commissioner Pickard, it is understood the question of his legal residence may be raised. The law reads that a Commissioner must be an actual resident citizen of a state within the zone from which he was appointed. Mr. Pickard has been in Washington about a year, but contends that his legal resi-

dence is in Kansas, inasmuch as he came to the capital on a leave of absence from the Kansas State Agricultural College at the request of Secretary Jardine to establish the radio division of the Department of Agriculture.

So far as known, no question as to Commissioner Lafount has been raised, but if there is one, it is assumed inasmuch as he has the personal backing of Senator Smoot (R) of Utah, any opposition would be overcome.

One report is that the confirmations may not be acted upon until after Christmas, but as yet Senator Watson has not announced when the matter will be taken up.

WOULD HAVE SPECIAL RADIO COMMITTEE

Representative Sol Bloom (D) of New York, has announced that he will introduce a bill to create a standing committee in the House on radio and broadcasting.

At present radio legislation is taken care of by the Merchant Marine and Fisheries Committee, having been so allocated through the fact that the first radio which had to be regulated was that of ship wireless.

The Naval Observatory at Washington played an important part in the world longitude determination by sending out special vernier code time signals via radio for use of longitude determination parties all over the world.

The Shielded Grid Tube

By K. G. ORMISTON

The new four element vacuum tube, while but yet an infant, is making its start in life under a multitude of names. It answers to "shielded grid tube," "shield plate tube," "screen grid tube," and so forth and so on. Lest our readers



become confused and know not what to dub the new recruit, we will examine its "innings" and purpose in life and determine for ourselves what's what.

Let's break one open and have a look. Said look costs \$7.50, but we can probably charge it to "publication expense," and get away with it!

We find the usual filament, a straight single wire down the center. This is surrounded by the circular coiled grid. So far the construction is just like the 199 type of tube. Outside the grid is the usual metal tube, called the plate, BUT—between the grid and the plate we find a coil similar to the grid except that its turns are closer together and it is connected to another similar but larger coil on the outside of the plate. This SCREEN, therefore, surrounds the plate and shields it from the grid.

Briefly, then, the new tube is like an overgrown 199, but with a screen between the grid and plate and on the outside of the plate. The grid itself no longer connects to a prong in the tube base but is connected to a metal cap on the top of the glass bulb. The prong which was formerly the grid connection now connects to the screen arrangement.

So we see that there is a "screen grid" "shielding the plate," thereby making a "shielded grid" tube out of it. Clear as mud, isn't it? If you can't remember all that, just call it SP-122.

After all, the most important question is—what does it do? Briefly, it separates or isolates the grid and plate circuits from each other, so that there is practically no feed-back. You see, the ordinary tube construction has the plate and grid circuits rather too tightly coupled together because of the capacity effect between the elements of the tube. 'Tis as though a little fixed condenser is connected from one circuit to the other—this coupling causes feed-back or energy transfer from the plate circuit to the grid—regeneration is another name for it. And too much of it becomes oscillation. Bad business!

Makeshifts have been devised to counteract that undesirable internal tube capacity. The Hazeltine makeshift made the professor rich in royalties, and other brainy individuals have turned gray or bald over the problem without getting rich.

But now, in the SP-122 we have a valve (pardon me,—I mean tube), whose inter-electrode capacity is so low that we won't even mention it. The "screen" with a positive potential on it does the trick. Just how the "cloud" of electrons that ordinarily hang around the filament are dispelled and the electrostatic field is reduced is a subject that we can't discuss here because the boss says my stuff must not be dry!

The tube is a highly efficient RF amplifier. No neutralizing is necessary, and with properly shielded circuits, the tube cannot oscillate. The amplification per stage ranges from 40 to 200 (as compared with 8 for the 201-A type), depending upon the design of the circuits

(Continued on Page 108)



An Ideal Gift

Beautiful Cabinet. Wondrous Tone
Amazing Naturalness. True Musical Quality

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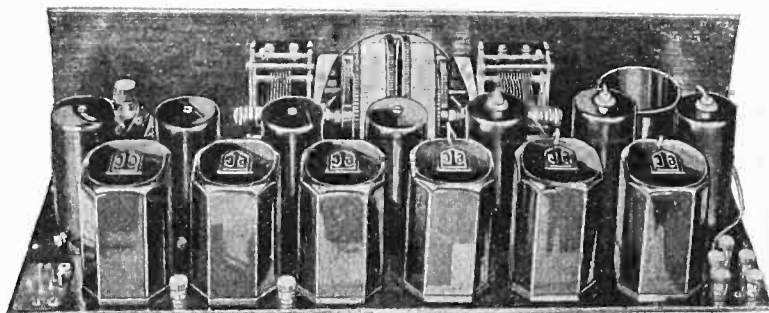
Peerless

REPRODUCER

The Tyrman "70"

The Tyrman engineers have produced the first superheterodyne receiver to take advantage of the new shielded grid tubes as intermediate frequency amplifiers. The voltage amplification obtainable from these tubes is greatest at the lower frequencies, such as is handled in the RF amplifier of a superheterodyne, and also when plate impedance coupling is used. Tyrman has taken full advantage of both of these characteristics, with the result that the "70," or "Shielded Grid Amplimax," as the receiver is called, employs but 7 tubes

low; 22 milliamperes of "B" current and $1\frac{1}{4}$ amp. "A." The accompanying illustration gives an idea of the compactness of the set, the total absence of wiring above the sub-panel, the shielded tubes (the three on the right with a connection coming through the top of the shields are the new SP-122 tubes); the antenna and oscillator couplers and the two tuning condensers with their drum dials. The six units at the back of the base are the three intermediate impedance coupling units, two AF transformers and output transformer.



The Tyrman "70" Shielded Grid Amplimax

with overall efficiency greater than is usually obtained from ten tubes of the single grid type.

The SP-122 tubes (described elsewhere in this issue), three of which are used in this receiver, are remarkably sensitive and give an amplification of 50 per stage in this circuit.

The set is designed to function on a short antenna and ground connection. The antenna coupling coil is arranged to provide for any desired degree of selectivity on any antenna size. A Camfield oscillator coupler with its adjustable feature is also an improvement over the usual fixed oscillator types. The set is equipped with an output transformer, and the massive audio frequency transformers spell quality of reproduction.

The total current consumption is very

The manufacturer claims—but you have probably already read his ad, so we will not go into that. However, the technical editor of Radio Doings will have one of these receivers for test by the time this issue is off the press, and the manufacturer, who very obviously has the utmost confidence and faith in his product, has requested us to make a very thorough test and report our findings fully and honestly in these columns next week. We will also give the schematic diagram in the Technical Manual department list of parts, constructional data, etc. Watch for the report on the Tyrman "70." It should prove interesting reading. Radio Doings is the first magazine in the country to present this new kit superhet receiver to the public. Next month they'll all be yelling about it!

Interference—Pro and Con

Thanks to the interference questionnaire printed in last week's issue we are at last getting some more or less definite information from our readers as to the various brands of choice and assorted noises which are emitted by their loud speakers as a background, and sometimes foreground, to broadcast programs.

With the cooperation of the power companies, street railway companies, radio fans themselves, the druggist on the corner and the doctor upstairs, we hope to get somewhere. There is no doubt that "noise," plain and fancy, is at present the greatest hindrance to the advance of radio. Last Saturday night the writer took a set to Malibu Lake and observed that natural static was practically nil,—there was not enough present to hinder reception of many eastern stations. And yet, on the same night there was plenty of racket in the city. This noise was NOT static, because static is not localized. If there was none at Malibu, there was none in Los Angeles.

Therefore, the great majority of all the noise we are getting with DX is man-made. One loose electric fixture in your own home, one dirty switch contact, one sparking motor commutator in the next block,—everything, from the dialing of an automatic telephone to the discharging of condensers in power substations, add their particular solo to the grand ensemble that nearly ruins the poor radio set and speaker, trying so hard to faithfully reproduce it all.

The National Electric Light Association has divided into various classifications all the types of noise which they were able to trace to its source with the following result:

Power Circuits — Lines. Insulators. Lighting Arrestors. Transformers.

(Continued on Page 108)



"KICK," the added power which means the difference between mediocre and excellent reception—between not quite bringing in that distant station and getting it strong, clear and undistorted.

Daven Tubes bring added "Kick" to your set—and in addition insure quiet, clear, tone perfect reception. Three types for any storage battery set.

The New Daven 201-A Amplifier and Detector
Try just one of these tubes in your set—the difference you will find in added power will make you replace the others. 5 Volt— $\frac{1}{4}$ Ampere.

The Mu-20—The Finest Detector Tube Made
On account of its unique characteristics the Daven Mu-20 is, we honestly believe, the finest detector tube ever designed. Quiet in operation, non-microphonic, amplification factor of 20 and exceptionally long life. Also the standard tube for resistance and impedance audio amplifiers. 6 Volt— $\frac{1}{4}$ Ampere.

The Mu-6—The Power Tube for All Storage Battery Sets
The special filament insures long life—its characteristics make it possible to use a stronger signal without overloading or distortion. 6 Volt— $\frac{1}{2}$ Ampere.

The New Daven AC Tubes
5 types to meet every requirement—the largest line of AC Tubes on the market. 4 prong, platinum coated filaments, no hum, non-microphonic. Amplifier, High Mu, Detector, Power and Rectifier.

Free Catalog giving complete information about these and other Daven Products, at your dealer or direct from us.

The Sine of Merit

DAVEN RADIO CORPORATION

TRADE MARK "Resistor Specialists" REG. U.S. PAT. OFF.

193 SUMMIT STREET

NEWARK, N. J.

S-M 630 S-G

By K. G. ORMISTON

You know, Radio Doings has one thing in common with Liberty and the Saturday Evening Post—the ads are interesting reading. In fact, in any radio magazine I'll bet folks generally do as they do with the Post—read the ads and then look for some reading matter. Anyway, it's a habit with me, and in the case of Radio Doings (though it's none of my business), I take a peek at the ads before they are even printed—just to keep posted on what's new.

And when I ran across all those Silver-Marshall ads on the new Shielded Grid Shielded Six, and read some of the



statements therein—!! There was only one thing for me to do, and I didn't waste any time. I acquired a kit and built the set, and then I somehow got hold of the only screen-grid tubes in town—four of 'em.

I am trying to restrain my enthusiasm when I tell you that those tubes certainly are good and the Shielded Six, as altered to accommodate three of them, becomes a very unusual receiver.

I operated the set at a location within eight blocks of five broadcast stations, namely, KFI, KHJ, KGEF, KPLA and KTBI. The set is so completely shielded that without antenna or ground you cannot get a peep from any local. But with a finger on the antenna post (no ground), KGO, KPO and KSL were re-

ceived with nice loud speaker volume. And with a steam radiator connected to the aerial post, WLS, WJBT and WBBM in Chicago came in.

This is a remarkable performance for a 6-tube tuned RF set. There are two major tuning controls and a volume control. The volume control knob is non-critical, simply increasing the volume to maximum without ever approaching a squeal—in fact, the set cannot possibly oscillate because of the characteristics of the new tubes. The tone quality, even on distant stations, is very fine, and the 220 audio transformers block a lot of noise, the frequency of which is beyond their sharply defined range.

The sensitivity is such that anything in the way of a signal which is above the noise level is brought in with loud speaker volume. The very complete shielding, small antenna needed, and general efficiency of the RF stages provide a degree of selectivity heretofore unobtainable in a set of this type. These features combined with the high efficiency of the three shielded grid tubes used in the RF stages give this set performance that one could only expect from sets having many more tubes.

The complete schematic wiring diagram is given on the opposite page, and on the following page the list of parts and general data. Again, Radio Doings is the first magazine in the country to present its readers with something just out of the research laboratories—the latest up-to-the-minute development in set design. Assembly instructions and other constructional information will be given in our next issue.

Golden Bear AIR COLUMN
SPEAKER

Made in 12 Sizes — Phone
Westmore 2712

Radio Doings
TECHNICAL MANUAL

SM "Shield-Grid" Shielded Six

COPYRIGHT 1927
BY THE MORWOOD
PUBLISHING CO.

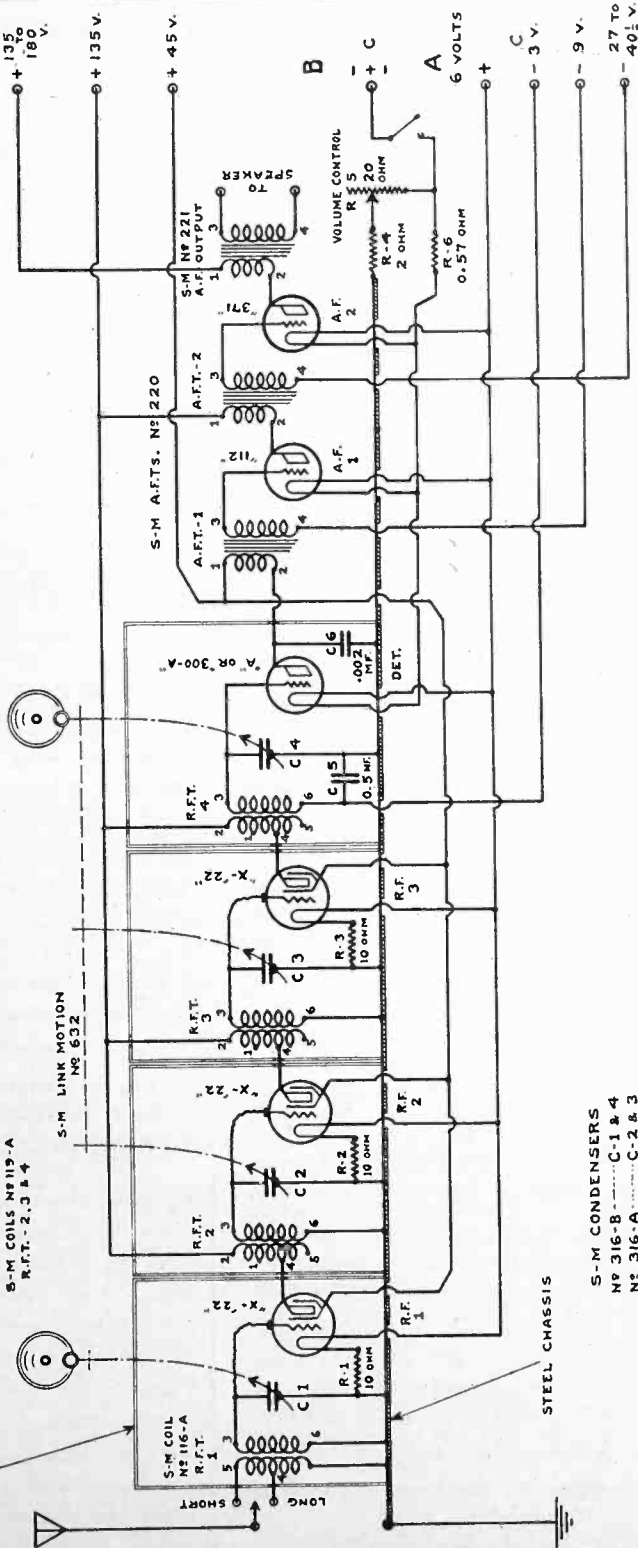
S-M SHIELDS
No 631-A

S-M COILS No 119-A
R.F.T.-2, 3 & 4

S-M LINK MOTION
No 632

STEEL CHASSIS

S-M CONDENSERS
No 316-B C-1 & 4
No 316-A C-2 & 3
.00035 MF., EACH



SIEMENS & HOKKAI

Silver-Marshall Shielded Grid Shielded Six

Three stages of radio frequency amplification sharply tuned, followed by the sharply tuned detector circuit which, in turn, works into a two-stage audio frequency amplifier comprise the 630-SG set. The radio frequency amplifier circuits consists of low-loss variable condensers providing substantially even spacing of stations over the control dial scales and very low-loss, low-resistance, plug-in RF transformers, a condenser and a transformer being housed in each of the four RF stage shields. The antenna stage at the left employs a special antenna coupler, provided with a tapped primary, allowing the use of short or long antenna at will, by means of the switch in the lower left-hand corner of the panel. The three RF stages employ shielded grid amplifier tubes and the battery circuits of these stages are so arranged, and so bypassed, that, together with the effective shielding provided by the aluminum stage cans, no oscillation tendency is experienced in the receiver. A special feature of the RF amplifier circuit is that it does not employ the tuned impedance coupling which has been believed necessary to operation of shielded grid tubes. Inherently extremely broad in tuning, this type of coupling is far from desirable, though circuits for it are given with the data sheets accompanying shielded grid tubes as a theoretical, but not necessarily as a practical means of operating these tubes.

The amplification obtainable from a shielded grid receiver is dependent upon the excellence of the tuning circuits (coil and condenser), making up each RF amplifier stage; and, the selectivity, upon the degree of coupling of one tube to the next through the tuned circuit. The 630-SG receiver provides a high value of radio frequency amplification, due to the unusually efficient design of S-M plug-in coils and condensers, and the selectivity of the receiver is made adjustable by means of extra taps upon the primaries of the RF transformers in order that the set may be adjusted by the merest novice to a point of highest efficiency, whether it be located in the middle of a broadcast-barren desert or in the center of the most congested broadcast communities.

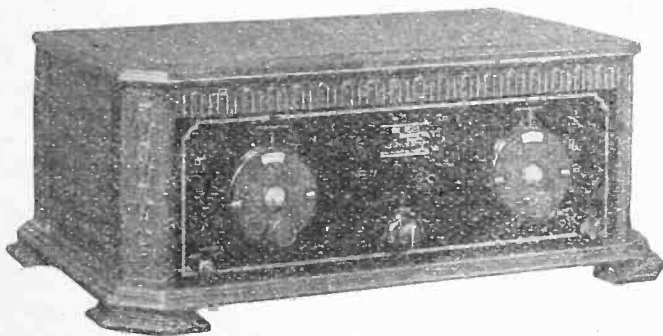
The antenna stage of the 630-SG receiver is tuned by the "STATION SE-

LECTOR I," or left-hand, dial control—the left-hand variable condenser in the schematic diagram, and contained in the left-hand shield compartment of the receiver. The three variable condensers in the three right-hand shield compartments tune substantially identical circuits, consisting of carefully laboratory-matched coils and condensers, and are connected together by means of a positive mechanical link. All three are tuned by the single right-hand "STATION SELECTOR II" dial. All radio frequency circuits are completely shielded, the radio frequency lead from one stage to the next passing through the small crevice between the stage compartments in slots provided in the shields for this purpose, and being insufficiently exposed to cause signal pick-up. In fact, so thorough is the shielding of the 630-SG receiver that it is practically impossible to pick up even a powerful local signal with the antenna removed; and with the two leads from the antenna coil socket to the antenna switch removed entirely, the shielding becomes completely effective. So the set is so weirdly sensitive that simply placing one's finger upon the antenna binding post is sufficient to bring in stations, frequently over a radius of 1000 miles, with good loud speaker volume—using only the body for aerial! In fact, the use of a metal bedspring as an antenna will provide extremely satisfactory results.

(To be continued next week)

PARTS REQUIRED FOR 630-SG RECEIVER

- 4 S-M 631A Stage Shields
- 2 S-M 316A Condensers, Matched
- 2 S-M 316B Condensers, Matched
- 4 S-M 515 Coil Sockets
- 6 S-M 511 Tube Sockets
- 3 S-M 119A RF Transformers, Matched
- 1 S-M 116A Antenna Coil, Matched with Above
- 2 S-M 220 Audio Transformers
- 1 S-M 221 Output Transformer
- 1 S-M 632 Triple Link Motion
- 1 Carter .5 mf. Condenser
- 1 Carter .002 mfd. Condenser
- 2 Fast 1 mf. Condensers
- 1 Carter 20 ohm. Rheostat
- 2 Carter Tip Jacks No. 10
- 1 Carter 2 ohm. Resistor
- 2 Marco Walnut Vernier Dials
- 3 Carter 10 ohm. Resistors
- 1 Carter .57 ohm. Resistor
- 1 S-M 636 Terminal Strip, with Terminals
- 1 S-M 633 Drilled and Engraved Metal Panel, 7x21 inches
- 1 S-M Steel Chassis, 12x19¼x1¼ inches
- 1 Carter No. 12 Antenna Switch
- 1 Carter Imp. Battery Switch
- 1 Coll Kellogg Fabricated Hoop-up Wire with Screws, Nuts, Lugs

SM**IT'S A
KNOCKOUT!**

THE NEW SHIELDED-GRID SHIELDED SIX

An all-shielded receiver employing three of the new shielded grid tubes in the tuned R.F. stages. A cross-country set with amazing volume and selectivity.

The famous 220 audio transformers and 221 output transformer give this receiver the finest tone quality you ever heard.

You can build it yourself in a few hours and know the satisfaction of the new standards of radio performance which this set will bring you. It is sold as a complete kit—Price \$97.

Distributed by

C. C. LAWTON CO.

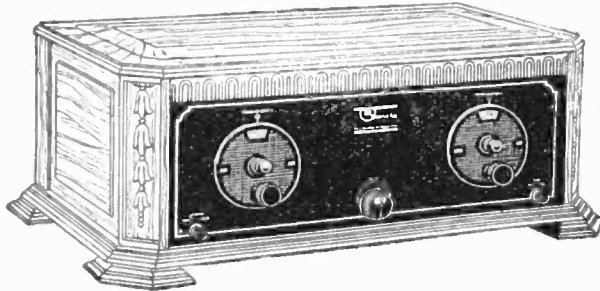
1125 Wall St.

WEStmore 3960

Los Angeles


SM

1500-Mile Loud Speaker Reception Without Antenna!



The Shielded Grid Shielded Six

The new Silver-Marshall type 630-SG Shielded Grid Six is a recently-developed six-tube, fully shielded radio receiver—not only unconditionally guaranteed to possess finer tone quality than any other commercial receiver, but also unconditionally guaranteed to bring in MORE stations with LESS interference than any other receiver on the market.

Imagine, if you can, building this receiver in one evening at a cost of \$97.00, and, turning the two dials slowly, after three or four hours finding some fifty or seventy-five stations on your log! Imagine a new station for EVERY degree of the dial—and with local stations ON ONE POINT ONLY and never spreading over two to four degrees!

The 630-SG set with only a ten-foot antenna will bring in stations within a 1500-mile radius. With only the operator's body serving as an antenna, the 630-SG gives the same performance. With a fifty-foot antenna it will bring Coast to Coast reception at will, through all local interference—in every instance with loud speaker volume.

The 630-SG receiver kit is the MOST REMARKABLE SET so far developed. Under favorable conditions it will do for you things no other receiver will do—it is offered to you on a basis that if it doesn't, you can box it up, send it back, and your money will be refunded.

That's fair enough, isn't it?

SILVER-MARSHALL, INC. 846 West Jackson Blvd. Chicago, U. S. A.

Los Angeles Representatives:

MARSHANK SALES COMPANY

222 East 16th Street

SM

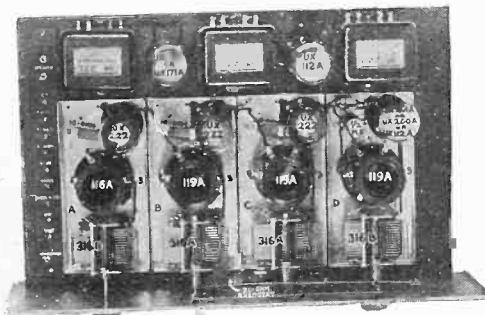
WOW!

WHAT A COMBINATION!

**THE NEW SILVER-MARSHALL SHIELDED
GRID SHIELDED SIX**

WITH THE NEW

Four Element Screen Grid Amplifier Tubes



IT HAS—

The Selectivity necessary to cut through in the most congested cities!

The Sensitivity which brings in the Eastern Stations with a wallop!

The Tone Quality that satisfies the most critical music lover!

Complete Kit \$97.00

RADIO MANUFACTURERS SUPPLY CO.

1000 SOUTH BROADWAY

LOS ANGELES

Open Evenings Until 9 p. m.

Saturdays Until 10 p. m.

Silver-Marshall

Downtown Headquarters

Here you will find all the new Silver-Marshall Kits and parts. We have all assembled and would be very glad to have you come in and inspect the full line.

Shielded Grid Shielded

Six

*Silver Laboratory Super
New AC Shielded Six
SC II*

Short Wave Set

*Model 210-660 Unipac
Model 171-660 Unipac
New Model "B" Elim.*

Don't forget that all Silver sets use plug-in coils and are interchangeable, tuning from 30 meters to 3000 meters.

**If You Want to Modernize Your
Old Set, Don't Forget the New**

Silver Audios and Push- Pull Transformers

*Condensers Choke Coils
Drum Dials*

*All Metal Panels and Sub-
Panels*

Set Builders Write for Discounts

American Radio Co.

LOS ANGELES

108 E. Eighth St. TUCKER 6028

Open Evenings Until 8

SHORT STORY

Phone rang the other day. Chap on the other end was Mr. Mitchell of Kierulf & Ravenscroft.

"Say, Ormie," sez he. "How come I haven't seen anything in the book about Peerless?"

"Peerless what?" sez I, knowing full well. "What is it?"

Mitchell gasped. "Peerless Reproducer, of course. Why, we sell 'em by the carload. Mean to say you haven't heard one?"

"Nope," sez I.

"G'bye," sez Mitchell.

In ten minutes a carton was delivered to ye laboratory containing one Peerless Reproducer, and we have been using it these past few days on various sets under test—also put it on the audio oscillator to observe its frequency range. For true and natural tone it is hard to beat. There is none of the drummy or barrelly (?) effect produced in many speakers in an effort to emphasize the bass for a public who seem to have temporarily gone "bass crazy." The bass is there in its proper proportion,—no more or less. Same for the treble. Incidentally, there is a built-in filter. We like it very much indeed.

Why Not Give That Friend a Tube Rejuvenator for Christmas

An "R. S. C." REJUVENATOR will be welcomed by any radio set owner. Operates on any 110-volt system, A.C. or D.C. and keeps tubes at highest efficiency.

Send P.O. Order and an "R. S. C." will come to you in an attractive Xmas box by return mail, postpaid.

Price \$2.75

RADIO SALES CO.

724 W. Vernon Ave. Los Angeles
AX. 2947

remember the
name!



CECO

If the Federal Telephone Manufacturing Corporation tested all the principal advertised tubes on the market and gave CeCo first place, wouldn't it be good evidence that it is the best tube?

Following the test dated August 5, 1927, they say:

"These tubes were put on life test for two thousand hours, and in the end the Em. and G. were still higher than the average maximum of June and December, 1926.

This is proof that a good tube for radio reception can be made. The average tube is ready to expire at the end of 1000 hours, at which time these tubes were at their maximum."



CECO TUBES

Don't Be "Switched"—Demand CeCo Tubes

Authorized Wholesale Distributors

Myers Electric Supply Co.
1729 S. Los Angeles St.
Los Angeles

Herbert H. Horn
1629 S. Hill St.
Los Angeles

Stiefel-Harrison
Company
1627 S. Hill St.
Los Angeles

C. C. Lawton Co.
1125 Wall Street
Los Angeles

Radio Supply Co.
912-914 S. Broadway
Los Angeles

Holmes & Crane
Oakland, Calif.

Sunset Electric Co.
San Diego, Calif.

Pacific Coast Representatives

B. KRUGER & CO.

500 N. Huntley Drive, West Hollywood, Sherman P. O. Phone OX. 3897



Model 76 Console

BOSCH

Without

Priced from

Many Models

Five, six or seven tube sets, all using the single station selector which insures simplicity of operation.

See Your Nearest

LOS ANGELES

Downtown

Acme Radio Store
709 Main St.
TUcker 1728

Mattern Electric Co.
950 West 12th St.
ATlantic 7009

Southwest

Robinson Radio Shop
46th, cor. Western Ave.
VERmont 6683

Nesa Radio Sales & Service
2565 W. Pico, near Vermont
BEacon 2723

Radio Electric Shop
1428 W. Santa Barbara
VERmont 7440

Wm. H. Shepherd
4402 Avalon Blvd.
AXridge 6925

Southeast

Manchester Radio Electric
1522 E. Manchester
DElaware 0460

South

Jenkins Radio Shop
8450 South Broadway
THornwall 4460

Hollywood

Bob Lloyd
262 N. Vermont Ave.
WAShington 7933

Shepherd's Radio
7562 Sunset Blvd.
GRanite 7482

East Hollywood

Quimby's Radio Service
1860 N. Vermont Ave.
OLympia 5501



"Have You Heard the Bosch Phonograph Re-Creator?"

YALE RADIO

Wholesale Distributor

LOS ANGELES

Westmore 3351

RADIO

A Peer

\$68.50 to \$340

Choose From

Bosch Sets may be operated direct from the light socket or with batteries or battery eliminators.

sch Dealer Today

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F. & H. Radio Shop
5011 York Blvd.
GARfield 8962

West Hollywood

Motley Electric
7761 Santa Monica Blvd.
GLadstone 9602

GLENDALE

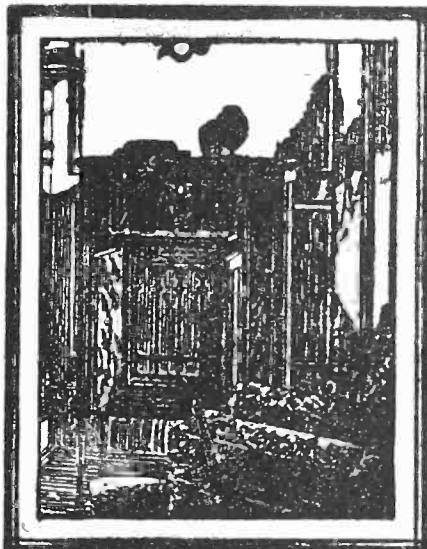
Broadway Radio Electric
Willard F. Hellman
202 E. Broadway
GLEndale 3064

HUNTINGTON PARK

P. A. Dougherty
158 South Pacific Ave.
DElaware 4852

OCEAN PARK

Pier Ave. Radio Co.
142 Pier Ave.
Santa Monica 610-94



Model 57 Console

PASADENA

Kadley & Yeisley Music Co.
1447 North Lake Ave.
Niagara 2510

Thomas & Sommerville
41 North Broadway
Terrace 0815

POMONA

Halvorson Electric Shop
274 E. Second St.

SANTA BARBARA

Radio Sales & Service Shop
924 Chapala St.

SANTA PAULA

The Primmer Co.
957 E. Main St.

UPLANDS

Ross Auto Electric Shop
376 Second Ave.

“Have You Listened to the Bosch Ambotone Speaker?”

LECTRIC CO.

sch Radio Products

LIFORNIA

1111 WALL STREET





Through the courtesy of the Gold Seal Electrical Company of 250 Park Avenue, New York, two prizes are offered each week for the best letters to the DX Club. The first prize consists of two Gold Seal tubes. The prize winner may have his choice of one power tube of either type and one tube of either the 199 or 201A type. The second prize is one Gold Seal tube of either the 199 or 201A type. It is not always the big expensive set with the longest list of DX that wins—everybody has a chance.

FIRST PRIZE

DX Club:

I have been operating a Radiola 28 for the past couple years, and my present log of stations verified and confirmed by letters, is 769, 159 being foreign to the United States of America. My antenna system constitutes the Bouldin Cage Antenna and Preston Ground.

I have very good results in hearing along the Atlantic mainland. Among those worth mentioning are: Porto Rico, 1; Tasmania, 1; Austria, 1; Belgium, 1; Haiti, 1; Norway, 1; Peru, 1; Brazil, 1; Venezuela, 1; Irish Free State, 1; San Salvador, 1; Soviet Republic, 1; Switzerland, 1; China, 1; Siberia, 1; New York, 52; Pennsylvania, 32; New Jersey, 19; Massachusetts, 17; Florida, 16; Rhode Island, 8; Georgia, 6; Maryland, 5; Maine, 4; Alaska, 3; Hawaii, 2; Canada, 58; Philippines, 5; Mexico, 13; Australia, 14; Great Britain, 8; Cuba, 7; New Zealand, 7; Argentine, 6; France, 4; Japan, 3; Spain, 3; South Africa, 2; Italy, 2; Holland, 2; India, 2; Chile, 2.

I am a continuous reader of your wonderful little Red Book, and I advocate all my friends to also read it.

Yours most sincerely,

G. B. VAN BUREN.

(Note—Mr. Van Buren is the "champeen" DXer in the northern end of the State, while Mr. McDonald of Chula Vista wins the marbles in the South. It's really a shame to let these gentlemen into the DX Club, because they sort of take the heart out of some of our ambitious members, who can't seem to drag Siam into their own back yard! Anyway, it's a great game.)

SECOND PRIZE

DX Club:

Stand by, folks, while I drag my log into this here DX pond. Since receiving my little blue Call Book from Radio Doings I have played the following stations in the last ten days on my one-half ($\frac{1}{2}$) radio set.

Twenty-nine California stations, 5 in Oregon and 10 in Washington are my Coast "locals." Add to the above KSEI, KFAU, KSL, KDYL, KFEL, KLZ, KOA, KDKA, KFAB, KFAD, KGCU, KMA, KMOX, KOB, KTHS, KWKH, WBAP, WDAE, WBBM, WCCO, WJBT, WLW, then scramble in CFAC, CJOR, CNRV, CKWX and the one everybody seems to get—JOAK!

I fished an hour a day with the exception of one Saturday night, when I tried hard for KGU. With KFWI on there was nothing doing, so I listened to a fine program at Shreveport, La., until well into the night—or morning. Then I remembered Mr. Ormiston's tips on DXing and half-heartedly tuned in KNRC and BINGO!—there's JOAK! at 2:20 a. m.

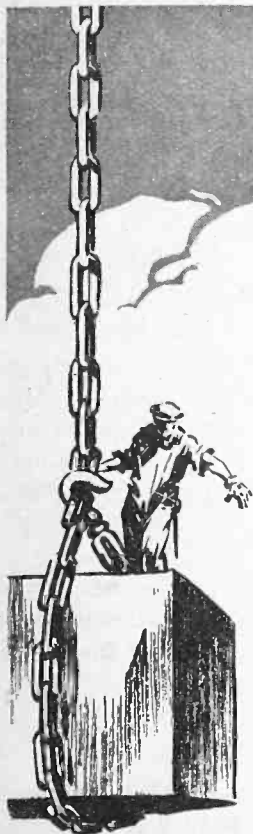
Feverishly I tried Australia, but only caught the words "Sidney" and "program."

However, I consider by prize stations to be: KGGU (100 watts), Mandan, South Dakota; KKP (15 watts), Seattle Harbor; CKWX (100 watts), Vancouver, B. C., and WDAE (500 watts), Tampa, Fla.

I use a 150-foot East-West aerial and a 6-wire, 20-foot cage with loops 18 inches in diameter. The long one brings them in, while the cage tunes sharper but without the volume. My location is in an oval valley entirely surrounded by mountains, 1500 feet

(Continued on Page 106)

BT Counterphase 8—World's Greatest Radio—Sold with a Distance Guarantee. H. A. Everest, 1032 North Ogden Dr. GRanite 9915.



*A vital link
in the best radio
is "best tubes"*



Distance, clearness, volume—your receiving set may have far finer possibilities than you have yet realized. A full installation of Gold Seals will show you.

These fine tubes represent the most improved and surest manufacturing methods to give you the finest results. When you get Gold Seals you get the last word in tube quality.

Distributors:

Kay Motor Supply Company

341 West 18th St., Los Angeles, Cal.

Manufactured by GOLD SEAL ELECTRICAL CO.,
250 Park Ave., New York

**Gold Seal
Radio Tubes**

*All
Standard
Types*

*"Money can't buy better
Radio Tubes than Gold Seal"*



? Questions and Answers ?

• A Weekly Department Conducted by K. G. Ormlston, I.R.E. •

QUESTION—I have a 5-tube set with B eliminator, A battery and trickle charger, so I always have plenty of power and the set receives as well as any I have ever heard. The trouble is that I am losing nearly every one of the network programs, because when I get KFI, KFSD drowns it out, and when I try for KGO, KNRC kills him.. Both KFI and KGO come in very fine when not interfered with. Is there any relief for me outside of a new receiver with more tubes? I have a power tube in one of my sockets and use only three tubes besides the power tube.

A. B. KENYON,
San Diego, Calif.

ANSWER—It is all a matter of selectivity. Would suggest an efficient stage of radio frequency ahead of your set. Something on the order of the Isolator, as advertised in this issue. It is no particular trick to separate KGO very nicely from KNRC here in Los Angeles, 15 miles from KNRC, on the usual run of 5-tube sets. A wave trap might help you with the KFSD situation. At this end of the line, the usual 5-tube set can get KFSD through KFI, and the latter station is the more powerful of the two. Hence, it is obvious that your installation is weak on selectivity, probably due to the design of the RF and detector circuits. If you do not wish to work over your set, the addition of a sharp-tuning unit ahead will probably give you the desired selectivity.

QUESTION—Saturday night I picked up a station in New Jersey, call letters 3XN.. I cannot find it in your call book,

and would like to know who owns this station and where it is located.

H. R. EBERHARDT,
Sunland, Calif.

ANSWER—3XN is the experimental station of the Bell Laboratories, located at Whippany, New Jersey, 20 miles west of New York. They are on the air usually every Friday night late, testing. They play phonograph records and a player piano. The frequency used is not always the same. Lately they have been on 630 kilocycles, just above KFI, and sometimes they use 700 kilocycles. They come in with good volume and very fine quality.

QUESTION—I have a 1926 5-tube—set that is a fairly good home receiver, but is so broad in tuning that I cannot get KFI when KGW is on, and KOIN completely blankets everything for about 10 points either way on my dials. Also the blooming thing is "queer," in as much that it brings in all stations with greater volume when the aerial and ground wires are reversed.. Would you advise me to attempt to make a receiver of it or trade it off for a yeller dawg and then shoot the dawg for howling?

O. Z. HOWARD,
Portland, Ore.

ANSWER—Same old problem. Efficient RF sets nowadays are shielded to prevent the coils picking up energy from the local stations, the coils are designed to have a minimum of inherent distributive capacity, the stages are carefully balanced to tune together and

(Continued on Page 106)

CROSLY SPECIALISTS

REPAIRING — BALANCING — SERVICE
CHILDS' LAB., 2310 S. Union Av., L. A.

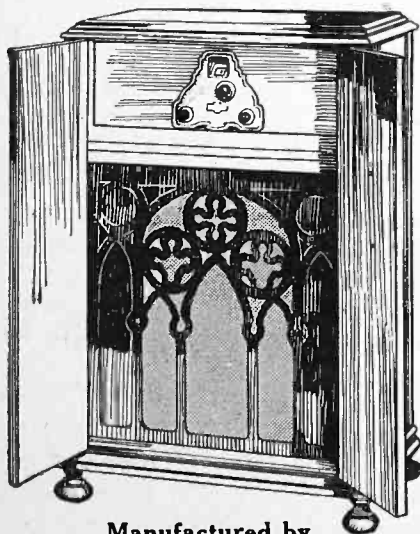


ELECTRIC RECEIVER

So Fine! — and So Convenient!

REVOLUTIONARY CONVENIENCE is the high-note of this Radio Season. Radio pleasure in your home can be as carefree as electric light.

Howard Radio ELECTRIC is the supreme example, for these wonderful sets are operated directly from the lighting circuit of the home. Intermediary batteries have been done away with. No charger is required. The new R.C.A. and Cunningham "AC" Tubes have made this possible. The Howard Radio ELECTRIC circuit has made it wonderfully practical. In table and console models, reasonably priced, the new Howard is Radio of the utmost refinement. Charming in design and craftsmanship. Amazingly wonderful in its rich, mellow reproduction of tone.



Manufactured by
HOWARD RADIO CO.
 Chicago, Ill.

No Power Problem—Simply plug into the lighting circuit of your home at any socket supplying 110 volts, 60 cycle, alternating current.

No "Fussing"—No acids—No batteries to run down—No charger—No unsightly connecting wires.

Compact, Easy to Install—Just like plugging in your electric floor lamp—"Installation" of a Howard requires about Thirty Seconds!

Easy and Inexpensive to Operate—Single Dial Control—costs about 45 cents a month to operate five hours a day!

Think of the comfort—the convenience—the care-free pleasure this Radio holds for you!

Price \$415.00

Distributed by

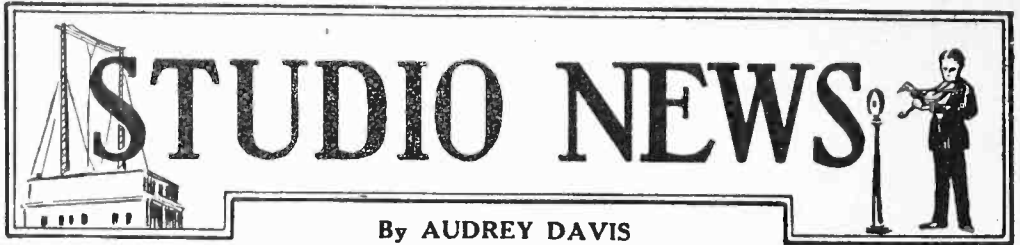
Howard Radio Distributing Co., Inc.

1236 Maple Ave.

Westmore 2543

Los Angeles, Calif.

Formerly at 6229 Banner Place



By AUDREY DAVIS

Try-outs or auditions are held at KFI, Los Angeles, every other Friday afternoon. Robert Hurd, program director, states that the percentage of acceptable talent is getting smaller each time, and believes that the reason for this is that standards are getting higher, and the day of mediocre talent on the air is past.

Borrah Minevitch, known as the world's best harmonica player, and his Argentine Rascals, 14 boys who play harmonicas, have been appearing over KNX recently. The group is featured at a local theater and in connection with their appearance have been on the air.

Gordon Smith of KGFJ has discovered a very worthy little singer and is using her on his programs from 7 to 8, Wednesdays, Thursdays and Saturdays. Edith Berhman is still in high school, and I am told she has red hair. Anyway, she is quite a clever little vocalist and is accompanied by Marion Champion, a school chum.

KPLA takes the fur-lined bath tub this week for arranging to broadcast the notable opening of the United Artists' Theater, Dec. 26, featuring Mary Pickford's latest picture, "My Best Gal." Never before has there been such an assembly of picture idols before the microphone. Each one will make a brief speech for their picture public. The list includes Mary Pickford, John

Barrymore, Charles Chaplin, Gloria Swanson, the Talmadge Sisters, Buster Keaton and many others.

Few of his audience know that Xavier Cugat, well-known violinist, appearing regularly over KMTR, is an equally famous and successful cartoonist. For this profession he uses the name De Brue and specializes in caricatures that can be seen in the Examiner and various motion picture periodicals. His subjects are usually visiting notables, city officials, motion picture people, etc.

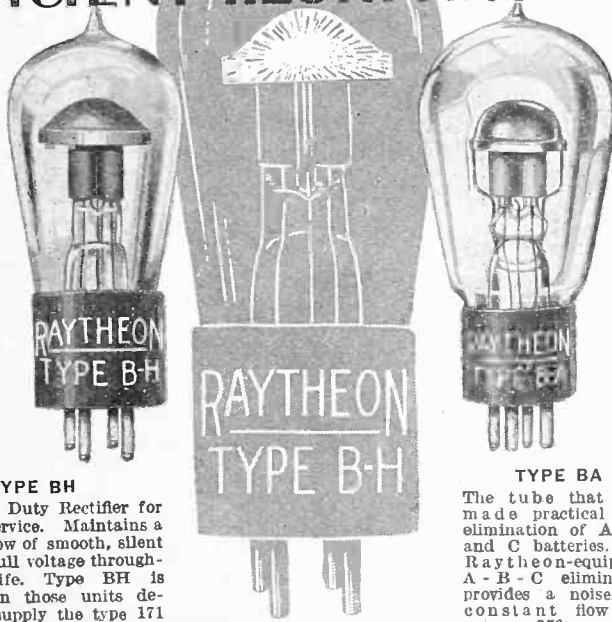
An interesting Christmas feature is the KMIC Artists' Frolic and Ball, which will be broadcast Thursday, December 22. There are to be fifteen acts of vaudeville show featuring the three red hot bands of Georgie Fabregat, Johnnie Dull, and the California Ramblers. The individual artists are Barnes and Robinson, Eva Barnes, Leopold Leigh, Collegiate, Don Hunt, Marshall Stedman and his Kiddies, Frank Martin and innumerable others. After what is promised to be a wow of a show the bands will alternate in playing for the dance.

Friends of Fred Wesley will be glad to know he has taken charge of a super-service station for Guasti Giullii. He will be recalled to the public as the popular artist that appears over KFQZ on Tuesday and Wednesday from 10 to 11, and over KFI Wednesday between 6:30 and 7:30.

BT Counterphase 8—World's Greatest Radio—Sold with a Distance Guarantee. H. A. Everest, 1032 North Ogden Dr. Granite 9915.

"Ionized Helium"

The Secret of an
EFFICIENT RECTIFYING TUBE



TYPE BH

The Heavy Duty Rectifier for B power service. Maintains a constant flow of smooth, silent power, at full voltage throughout its life. Type BH is standard in those units designed to supply the type 171 Amplifying tube. Rating 125 m. a. at 300 volts. Price \$4.50.

TYPE BA

The tube that has made practical the elimination of A, B and C batteries. A Raytheon-equipped A - B - C eliminator provides a noiseless, constant flow of power. 350 m. a., 250 volts, \$7.50.

Thousands of radio users know the satisfactory service given by Raytheon Long Life Rectifying Tubes, but few know the reason. The filament in the ordinary tube deteriorates while it is emitting electrons. In Raytheon, ionized helium gas, eighty times more conductive than copper, is used in place of a filament. This ionized helium supplies over and over again millions of electrons per second, with no deterioration to the helium. Thus in Raytheon each he-

lium ion veritably becomes an endless chain of power. As a result, a Raytheon tube has a far longer life and affords sustained voltage throughout.

The efficiency of a light-socket power unit is directly dependent on the efficiency of its rectifying tube. Ask your dealer which of the 40 Raytheon-equipped units will best suit your requirements.

When purchasing, look for the green seal which identifies Raytheon - equipped units.



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 LONG LIFE RECTIFYING TUBE



RCA RADIOLA 16
Less accessories
\$69.50
With Radiotrons
\$82.75

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The Electrical Appliance
Shop

336 S. Broadway
TUcker 2932

Electric Lighting &
Supply Co.

216 W. Third St.
MUtual 2335

Martin Music Co.

734 S. Hill St.
TRinity 9621

Richardson's

730 West Seventh St.
TRinity 2303

Echo Park

Mohawk Radio & Music
Company

2115-17 Sunset Blvd.
DRexel 112

Highland Park

F. & H. Radio Shop
5011 York Blvd.
GARfield 8962

Holland Electric Shop
5632 Pasadena Ave.
GARfield 3912

Hollenbeck Heights

Worobieff Music Shop
2038 East First St.
ANGelus 6349

Hollywood

Craig Radio Service
7022 Melrose
WHitney 7312

Hollywood Music Co.
6019 Hollywood Blvd.
HOLlywood 0364

Lincoln Heights

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Door & Mill Co.
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CApitol 2071

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6120 S. Broadway
THornwall 0224

Southwest

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RCA RADIOLA 30-A
Complete with
Radiotrons
\$495

Buy
with
Confidence



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See
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MADE BY THE MAKERS OF THE RADIOTRON

A New Radiola

satisfy every purse and taste. Your old receiver, too, can be applied on the down payment.

Every Authorized RCA Dealer appreciates the privilege of handling Radiola, and adds the priceless ingredient of Conscience to his work. Listed below are just a few of the Southern California Dealers who will gladly show you what a "Radiola Christmas" means:

Young's Radio Store
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Humbolt 7041

Southeast

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Humbolt 2337

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BEacon 1311

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Fred B. Gillenwater
Radio Studio
127 W. Main St.
Alhambra 2032

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Weir's Coast Radio
(Formerly Coast Radio)
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El Monte 110

FULLERTON

J. J. Farley Electric Co.
310 North Spadra
Fullerton 404

NORTH HOLLYWOOD

North Hollywood Music Company
Langlands & Schade
5317 Lankershim Blvd.
Lankershim 174

PASADENA

Lee Radio Shop
922 E. Colorado St.
Wakefield 5951

The McNally Co.
106 W. Colorado St.
Terrace 0547



RCA RADIOLA 17
Less accessories . \$130.00
With Radiotrons . \$157.50

SOUTH PASADENA

The Radio Electric
1165 Fair Oaks
Colorado 6574

POMONA

Harrison Fitch Elec. Co.
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Pomona 1250

VENICE

Venice Radio Shop
1227 Washington Blvd.
Santa Monica 63544

WATTS

Thos. J. Stevens & Son
1668 E. 103rd St.
Delaware 6824

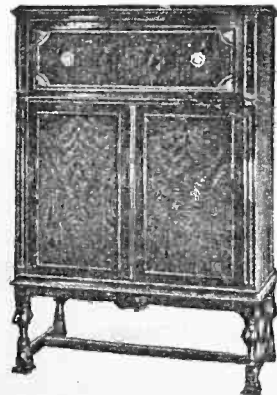
WHITTIER

F. B. Gillett
110 South Greenleaf
Whittier 425-291

EARL BURTNETT'S BILTMORE ORCHESTRA

One of America's Great Musical Organizations Broadcasts Nightly Over KNX, Sponsored by Authorized RCA Dealers. Don't Miss This Rare Musical Treat! Here is the Schedule:

Monday, 10-11 P.M.	Thursday, 10-11 P.M.
Tuesday, 8-9 P.M.	Friday, 9-9:45 P.M.
Wednesday, 10-11 P.M.	Saturday, 10-11 P.M.



RCA RADIOLA 32
Complete with
Radiotrons
\$895

RCA Radiola

MADE BY THE MAKERS OF THE RADIOTRON

FREQUENCY CHANNEL LISTING

250 Watts and Up—Corrected to December 17th

Chn.	Freq.	Meters	Stations	Chn.	Freq.	Meters	Stations
1—	550—	545.1	KSD, WMAK, KFUO, KFDY, WFAA.	55—	1090—	275.1	KFSG, WORD, WTAS, WEAN.
2—	560—	535.4	WHO, WCAC, WTIC.	56—	1100—	272.6	KFAD, KFJF, WBAA, WHAR, WPG, WRM, WSKC.
3—	570—	526.0	KMTR, KYW, WNYC, KFKX.	57—	1110—	270.1	KGU, KOAC, KQV, WGST, KLDS, WJAS, WMAZ, WSOE, WHAD.
4—	580—	516.9	WMC, WTAG.	58—	1120—	267.7	KFWI, KSBA, WDAE, WNJ, WGCP.
5—	590—	508.2	KLX, WOW, WCSH.	59—	1130—	265.3	KTS/, WHK, WNOX, WO!, WBET.
6—	600—	499.7	WBAP, WAAW, WOAI.	60—	1140—	263.0	KGEF, WDAG, WJAZ, WMBI, WSEA, WCAP.
7—	610—	491.5	KGW, WEAJ.	61—	1150—	260.7	KGA, WCAU, WDFW, WNBH, WOOD, WRHM.
8—	620—	483.6	KUSD, WCFL, WEMC, KFDM, WTAW, WJAR, KFBU.	62—	1160—	258.5	KSUL, WOCH, WBI, WCM, WEBW, WFB, WIL, WNAL.
9—	630—	475.9	WSB, WSUI.	63—	1170—	256.3	KTNT, WASH, WBBR, WCSO, WEBJ, WLTH.
10—	640—	468.5	KFI, WRC.	64—	1180—	254.1	KFKU, KMO, WREN, WRVA, WTAQ.
11—	650—	461.3	KFN, KRLD, WEEL, KUOM, WRR, WCAE.	65—	1190—	252.0	KOCW, KPLA, WMBB, WOK, WKBF.
12—	660—	454.3	KFRC, WJZ.	66—	1200—	249.9	KFRU, WCOA.
13—	670—	447.5	KFOA, WMAQ, WQJ.	67—	1210—	247.8	KOW, KFEL, WIOD.
14—	680—	440.9	KFSD, WJR, WSBF, WAAW.	68—	1220—	245.8	KFH, KFPY, KLS, WEVD, WAAT, WFBE, WGBB, WKRC, WHDI, WLB.
16—	700—	428.3	WLW.	69—	1230—	243.8	KSCJ, KWUC, WDOD.
17—	710—	422.3	KPO, WOR.	70—	1240—	241.8	KFKB, KFON, WBC, WEDC, WMAL, WGES, WBR.
18—	720—	416.4	KHJ, WMAF, WGN, WLIB.	71—	1250—	239.9	KEX, KFYP, WEAM, WNAD, WJAM, KWCR, WOAX.
20—	740—	405.2	WCCO, WFI, WLIT.	72—	1260—	238.0	KLDS, WLBI, WRBC, WBSB, WADC.
21—	750—	399.8	WEAR, WTAM, PWX,	73—	1270—	236.1	KFDX, KFMX, KFWM, WBNY, WGBF, WHAF, WMSG, WTAR, WTD.
22—	760—	394.5	KOB, KTW, KWKH, KWSC, WHN, WQAO, KMA.	74—	1280—	234.2	WCAH, KFVE, WMBS.
23—	770—	389.4	WAAF, WBBM, WJBT.	75—	1290—	232.4	KBRL, KFPR, KUT, WJKS, WSB.
24—	780—	384.4	KGO, KTHS, WCAO, WMBF, WQAM.	76—	1300—	230.6	KFEQ, WDBJ, WGBL, WQAN.
25—	790—	379.5	WCAJ, WGY.	77—	1310—	228.9	WCOC, KELW, KGBU, WWOV, WHBP.
26—	800—	374.8	KNRC, WOC.	78—	1320—	227.1	KSO, WARS, WBBC, WJAY, WSDA, WWA.
27—	810—	370.2	KHQ, WDAF, WLWL, WMCA.	79—	1330—	225.4	WFBM, KFUR, WDDA, WMAC, WSYR.
28—	820—	365.6	WCAD, WEBH, WJJD.	80—	1340—	223.7	KGFH, KMIC, WCAM, WCRW, WABQ, WFKB, WNR, WPCC, WSAJ.
29—	830—	361.2	KFWB, WDAY, WSAI, WOS.	81—	1350—	221.1	KFOY, WAMD.
31—	850—	352.7	WEW, WWJ.	82—	1360—	220.4	WKBH.
32—	860—	348.6	KJR, KVOO, WGBS, KXA, WOO, WIP.	83—	1370—	218.8	WCGU, WGWB, WKBO, WKBQ.
33—	870—	344.6	WCB, WJBB, WLS.	84—	1380—	217.3	WKWB, WRCO.
34—	880—	340.7	WKAQ, WAPI, WJAX, WHB.	85—	1390—	215.7	KRLO, WOKO, WPEP, WQAA.
35—	890—	336.9	KNX, WSM, WWVA, WOO.	86—	1400—	214.2	KFWF, WICC, WCWK.
36—	900—	333.1	KSAC, KSEI, WBZ, WKRC, WJAD, WBZA, KFOB, WHA, WLBL.	87—	1410—	212.6	KGDX, WJBL, WRAX.
38—	920—	325.9	KOA, WPCA, WRNY.	88—	1420—	211.1	WCDA, WRST.
39—	930—	322.4	WHAS.	89—	1430—	209.7	KSOQ, WCBS, WOKT, WTFI.
40—	940—	319.0	KOIN, KOIL, WFA.	90—	1440—	208.2	KFVD, WLBZ, KGFJ.
41—	950—	315.6	KPSN, KDKA.	92—	1460—	205.4	WABF, WMBD.
43—	970—	309.1	KYA, WABC, WOBQ.	93—	1470—	204.0	WKEN, WLBX.
44—	980—	305.9	KOMO, WHT, WIBQ, WHAZ.	95—	1490—	201.2	KGEY.
45—	990—	302.8	KSL, WGR, WNAX, WHA, WLBL.	96—	1500—	199.9	WRAH.
46—	1000—	299.8	KFWO, KMOX, KOWW, WBAK, WPSC.				
47—	1010—	296.9	KQW, KUOA, WWNC, KLZ.				
48—	1020—	293.9	KGCH, WPRC, WGL, WLBW, WODA, WTMJ.				
50—	1040—	288.3	KTBI, WBCN, WDBO, WNAT, WENR, WNAC, WEAN.				
51—	1050—	285.5	KFAU, WBAL, WJAG, WKAR, WOAN, KMMJ, WCAL, WGDY.				
52—	1060—	282.8	KFXF, WAIU, WDR, WEAO, KFUM.				
53—	1070—	280.2	KTAB, WFIW.				
54—	1080—	277.6	KWWG, WHAM, WGHP.				

ROFFY'S

New Superfine 3-Tube Circuit is Highly Selective. Kit only \$50.
J. T. Roffy, 155 Olive St., Walnut Park, Calif. Phone DE. 2756.

The Electrical Mechanism of the Cathedral Reproducer

May now be obtained through the radio stores. It is not just an ordinary loudspeaker unit—it is the mechanism which gives the beautiful Cathedral Reproducer its splendid tonal quality. It is built for and especially suited to long air column speakers, yet is a revelation when used with phonograph horns or ordinary radio loudspeakers. The Cathedral Unit favors no frequency; reproducing every note from the lowest to the highest, evenly, and with clarity. It is specially built for Cathedral by Nathaniel Baldwin, Inc., on their principle of 4 electro-magnetic poles, and is very closely matched for the 171 power tube and the Certified Cathedral Transformers.

For Better Reproduction always use the Certified Cathedral parts; not only for their superior quality of tone, but because *they work together!*

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EXCLUSIVE WHOLESALE DISTRIBUTORS:

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5234 Melrose Ave.

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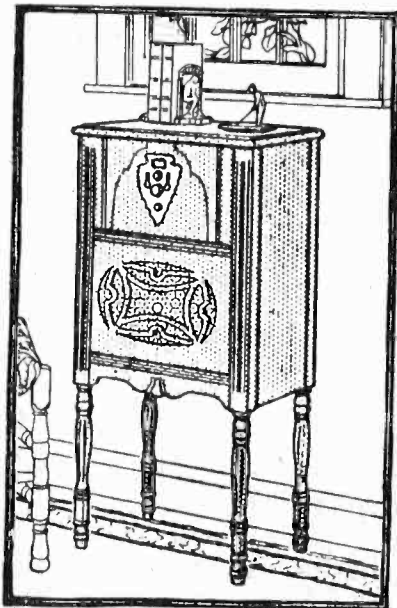
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Mohawk

One Dial Radio

Originators and Pioneers of the One Dial Radio Set . . . and
They Still Maintain Their Leadership.

These Reputable Dealers Will Demonstrate



The Pawnee

This beautiful Console Model is of rich Walnut, hand rubbed, piano finish, duo tone, having built-in speaker. In a class by itself.

Price for Electric Operation (Complete) . . . **\$189.50**

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GRanite 4876

PASADENA

Radio Doc

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BEAUTY -- PERFORMANCE

The Xmas Gift Supreme

For All the Year - For All the Family

ALL ELECTRIC ONE DIAL RADIO

Six Tubes, Shielded... Two Stages Tuned Radio Frequency...
 Three Stages Audio, Using the New 226 and 227 RCA Tubes.
 No other Radio can offer you quite as much for prices as placed
 on the New Mohawk Models

Mohawk for You and Deliver to You for Xmas

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RIALTO

**J. O. Weller
 Hardware Co.**



The Navajo

This table model of five-ply Walnut veneer, with curly Maple overlay, duo tone, beautiful in design.

Price for Electric Operation..... **\$149.50**

Other One-Dial All-Electric Radios

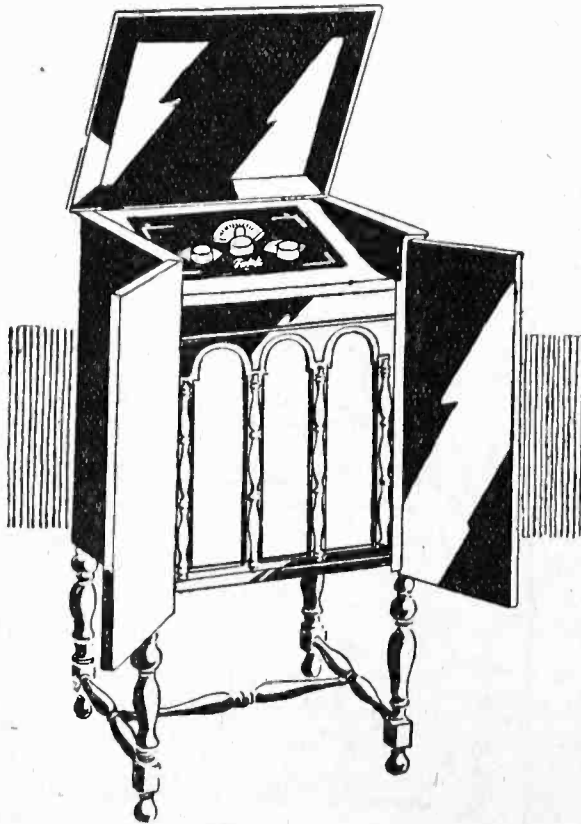
**\$174.50—\$252.00—\$282.00
 \$367.00**

Same Models for Battery Equipment—\$77.00 less

— SIMPLICITY -- ECONOMY



For ALL-YEAR Enjoyment give a Falck



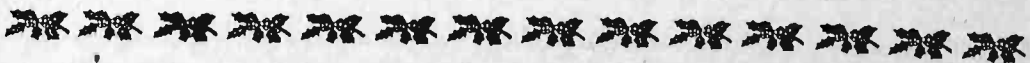
Kris Kringle won't mind its weight or size. He will be thinking of the months of pleasure that all the family will get. Give a Falck if you want a happy, satisfied family—and also bear in mind the low upkeep cost. No batteries—no chargers—only a few cents added to your light bill. The Falck is the radio that thousands are talking about.

\$150
Complete

The Falck

NO BATTERY RADIO

Mfd. by The Advance Electric Co., 1260 W. 2nd St., Los Angeles



The Ten Tube Magnaformer

The new Magnaformer circuit, as announced in the last issue, has been tested out during the past week in different localities and under varying conditions, with the result that it has demonstrated itself to be the most powerful set we have yet used. The addition of a perfectly neutralized highly efficient stage of radio frequency amplification ahead of the first detector gives an added sensitivity and increased signal-to-static ratio which permits of tuning in eastern stations with window-rattling volume.

It was decided after considerable experimentation to use a circuit incorporating but one stage of amplification at broadcast frequencies and retain all four of the intermediate frequency stages. This combination, equipped with a three position toggle switch, permits the use of three different cir-

cuits. In one position we have a four tube receiver, one dial control. The filaments of the other six tubes are extinguished, and the economy of a four tube set is had for local reception.

In the second position the set operates on 9 tubes. It is then the standard 8 tube Magnaformer circuit with the RF stage ahead of it. In the third position the full 10 tubes are at work, and the set then is capable of a distance range which is unlimited as far as actual sensitivity is concerned, the noise level being the only limiting factor. Either a loop may be used or antenna and ground with an antenna coupler. The RF stage tuning condenser is ganged with the detector tuning condenser. The secondary of the special RF coupler is tapped to provide regeneration of the first detector.

(Continued on Page 107)



A REAL CHRISTMAS GIFT!

To Every Purchaser of

The Falck

NO BATTERY RADIO

8 MONTHS TO PAY—NO INTEREST OR INSURANCE!

You have the same privileges as if you paid cash! We accept your old battery set as part or all of down payment on this wonderful new FALCK, a plug-in Receiver of PROVEN merit.

FLETCHER RADIO MUSIC CO.

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228 W. Ninth St., Los Angeles
Also at 4705 South Vermont Ave.

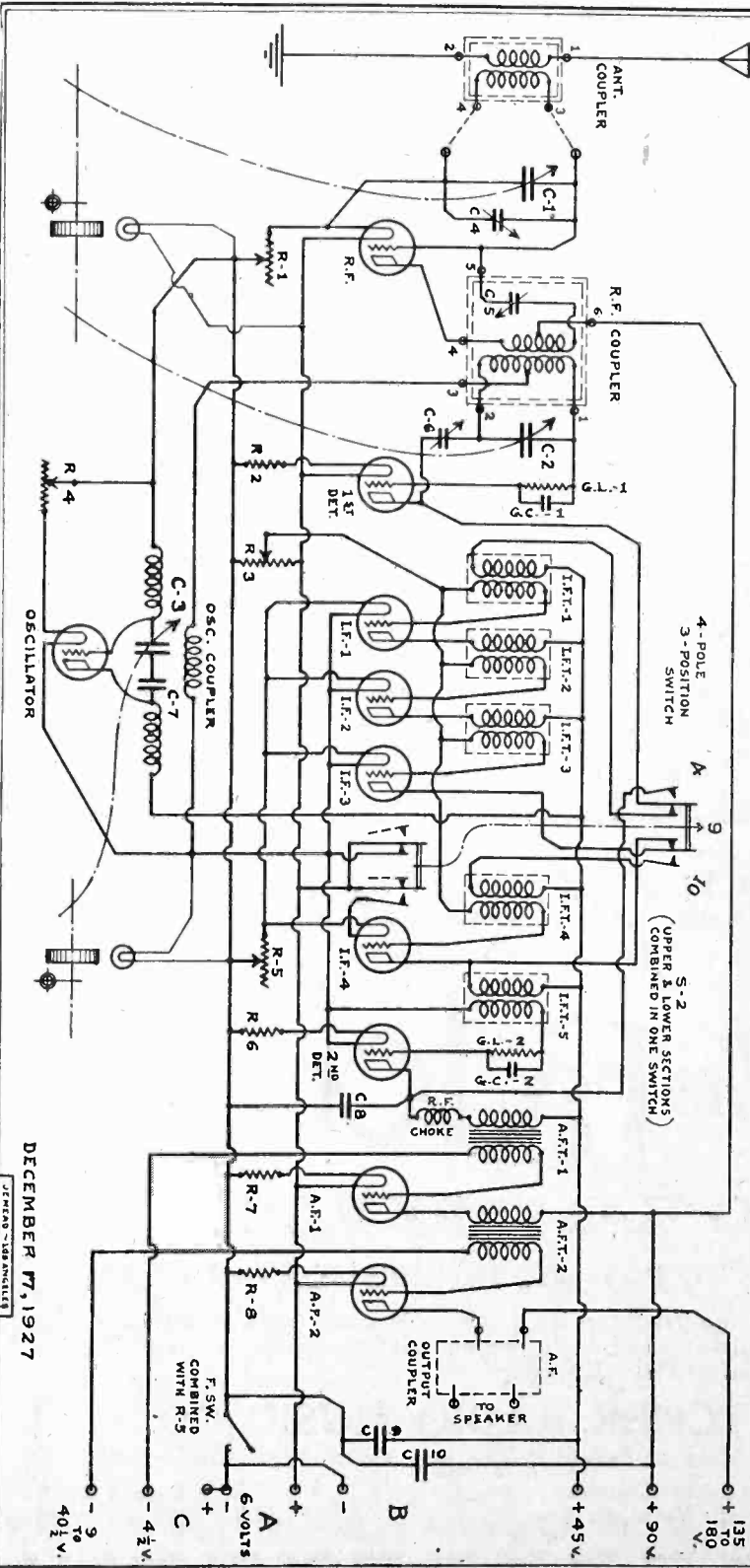
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THE HORWOOD
PUBLISHING CO.

THE LAMBERT 4-9-10 Magnafomer Circuit

Radio Doings
TECHNICAL MANUAL



DECEMBER 7, 1927

GENERAL INSTRUCTIONS

Magnaformer 9-8

Commander-in-chief of the Air

Dear Ormie:

Just got another fan on my side. While in Long Beach this week I saw Mr. R. C. Anderson, the prominent jeweler on Pine St., who brought in 27 Stations east of Denver, between 4 and 5:15 in the afternoon. He logged them all, and now tell the bunch what you logged at that time of the day!

While you are probably planning to acquire a log on that 10-tube Magnaformer, designed by Tom Lambert, which would break all records, I have added the additional stage to my Magnaformer, and you may as well pack up for another trip to the tall timbers.

And don't forget, Ormie, that within another week or two I will line up with set builders and fans who will help me crowd you to the last ditch.

While the Magnaformer with the tenth tube is now the most powerful set in the world, some folks savy the art of tuning and others aren't so good. Hoping you are the same, I am,

Yours,

SCOTTY.

Wholesale Distributors

YALE RADIO ELECTRIC CO.
1111 Wall St., Los Angeles

RADIO SUPPLY
912-14 S. Broadway, Los Angeles

SUNSET ELECTRIC CO.
1141 First St., San Diego

COAST RADIO SUPPLY CO.
648 Howard St., San Francisco

WILLIAMS & KLENTZ
Santa Ana, Calif.

SCOTT SALES CO.

Factory Agents

443 S. San Pedro St.

VA. 3297

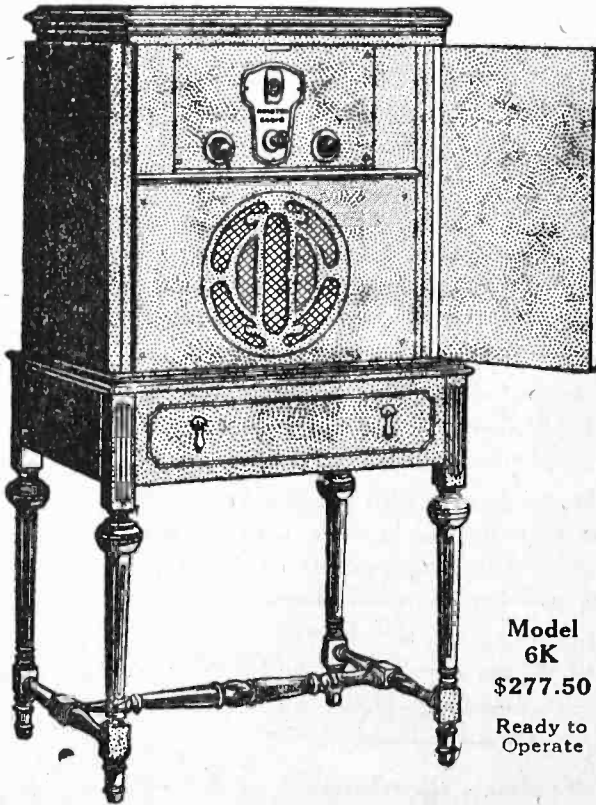
Los Angeles

Manufactured by Radiart Laboratories, 19 S. LaSalle St., Chicago

It's Here !!!

Kolster Radio

Electric Sets--Scientifically Correct



No Batteries of Any Kind

You simply buy your Kolster Electric Radio, plug into the nearest light socket, switch on, tune in, and the world of broadcasting is yours! Nothing to attend to at all. Simply switch on and play it.

To make the best electric set at the lowest possible price was the problem Kolster determined to solve. These sets are the solution and they show those extra dollars of value which will win your decision.

Model
6K
\$277.50

Ready to
Operate

Compare Values and You...Will...Buy...Kolster

Distributed in California by

THE JOHN G. RAPP CORPORATION

Formerly

H. EARLE WRIGHT, INCORPORATED

415 East Eighth Street
LOS ANGELES

123-129 Second Street
SAN FRANCISCO

For Radiolas 20, 25 or 28--Sterling Power Team

MONDAY TIME TABLE

ADJUSTED TO PACIFIC TIME
(X) Indicates Station is On the Air

TU 10 00-10 30 10 30-11 00 11 00-11 30 11 30-12 00 12 00-12 30 12 30-1 00 1 00-1 30 1 30-2 00 2 00-2 30 2 30-3 00 3 00-3 30 3 30-4 00 4 00-4 30 4 30-5 00 5 00-5 30 5 30-6 00	STATIONS				CALL	Frequency in Kilocycles	Wave Lengths	Power in Watts	STATION	ADJUSTED TO PACIFIC TIME																			
	10-12 A.M.	12-2 P.M.	2-4 P.M.	4-8 P.M.						8-8 P.M.				8-10 P.M.				10-12 P.M.											
										6 00- 6 30	6 30- 7 00	7 00- 7 30	7 30- 8 00	8 00- 8 30	8 30- 9 00	9 00- 9 30	9 30-10 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00								
SOUTHERN CALIFORNIA																													
X	X	X	X	X	X	X	X	X	X	KMTR	570	628	500	Hollywood	X	X	X	X	X	X	X	X	X	X	X	X	X		
										KFI	840	469	5000	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X	X		
X	X			X	X					KFSD	880	441	500	San Diego	X	X	X	X	X	X	X	X	X	X	X	X	X		
			X	X	X	X	X		X	KHJ	720	418	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X	X		
					X	X	X	X	X	KNRC	800	375	500	Sta. Monica	X	X	X	X	X	X	X	X	X						
X	X		X	X	X	X	X		X	KFWB	830	381	500	Hollywood	X	X	X	X	X	X	X	X	X	X	X	X	X		
X	X		X	X	X	X	X	X	X	KNX	880	337	500	Hollywood	X	X	X	X	X	X	X	X	X	X	X	X	X		
			X	X	X	X	X	X	X	KCYE	925	323	100	Tia Juana			X	X	X	X									
			X							KPSN	950	318	1000	Pasadena	X														
										CYH	940	319	1000	Monterey, M.	X	X	X	X											
							X	X		KTBI	1040	288	500	Los Angeles			X	X	X	X									
										KGEF	1140	263	500	Los Angeles	X	X	X	X	X	X	X	X							
										KSMR	1100	273	100	Santa Maria		X	X	X	X	X	X	X	X						
	X	X					X	X	X	X	X	X	X	KPLA	1190	252	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	
			X	X						KFBC	1210	248	100	San Diego				X	X	X	X								
X	X	X	X	X	X	X	X	X	X	X	X	X	X	KFON	1240	242	500	Long Beach	X	X	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	X	X	X	X	X	KFQZ	1290	232	100	Los Angeles	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X					KELW	1310	229	250	Burbank	X	X	X	X	X	X	X	X	X						
										KGFH	1340	224	250	La Crescenta								X	X	X	X				
X	X	X	X			X	X	X	X	X	X	X	X	KMIC	1340	224	250	Inglewood	X	X	X	X	X						
										X	KWTC	1350	222	100	Santa Ana	X	X												
X	X	X	X	X	X	X	X	X	X	X	X	X	X	KGER	1390	216	100	Long Beach	X	X	X	X	X	X	X	X	X	X	
										KFCR	1420	211	50	Sta. Barbara	X	X	X	X	X	X									
X	X	X	X						X	X	X	X	X	KFVJ	1440	208	250	Venice						X	X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	KGFM	1470	204	100	Inglewood...	X	X	X	X	X	X	X	X	X	X	
NORTHERN CALIFORNIA																													
										KFBK	580	535	100	Sacramento	X	X	X	X	X	X	X	X							
X	X	X	X	X	X	X				X	KLX	590	508	500	Oakland	X	X	X		X	X	X	X						
X	X	X	X	X	X					X	KFRC	880	454	1000	San Francisco	X	X	X		X	X	X	X	X	X	X	X	X	
	X		X	X	X	X			X	X	X	X	X	KPO	710	422	1000	San Francisco	X	X	X		X	X	X	X	X	X	
		X	X	X					X	X	X	X	X	KGO	780	384	5000	Oakland	X	X	X		X	X	X				
		X	X	X	X	X				X	KYA	970	309	500	San Francisco	X	X	X		X	X	X	X	X	X	X	X	X	
				X	X	X			X	X	X	X	X	KQW	1010	297	500	San Jose	X	X	X	X	X						
X		X	X	X	X				X	X	X	X	X	KTAB	1070	280	500	Oakland	X	X	X		X	X	X	X			
X	X		X	X	X				X	X	X	X	X	KFWI	1120	268	500	San Francisco	X	X	X		X	X	X	X	X	X	
										X	X	X	X	KZM	1220	246	100	Oakland		X									
NORTHERN AND WESTERN STATES																													
X	X	X	X							X	KGW	810	491	1000	Portland	X	X	X	X	X	X	X	X	X	X	X	X	X	
X						X				X	X	X	X	KFOA	870	447	1000	Seattle	X	X	X	X	X	X			X	X	
			X	X						X	CFAC	890	434	2000	Calgary							X	X						
			X	X	X	X	X	X	X	X	X	X	X	KHQ	810	370	1000	Spokane	X	X	X	X	X	X					
X	X	X	X	X	X	X	X	X	X	X	X	X	X	KJR	880	349	2500	Seattle	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X					X	X	X	X	KOA	920	326	5000	Denver	X	X	X	X	X	X					
		X	X	X	X			X	X	X	X	X	X	KOIN	940	319	1000	Portland	X	X	X	X	X	X					
X	X	X	X	X	X	X	X	X	X	X	X	X	X	KOMO	980	308	1000	Seattle	X	X	X	X	X	X	X	X	X	X	X
										X	X	X	X	KSL	890	303	1000	Salt Lake City	X	X	X	X	X	X	X				
										X	X	X	X	KFXF	1080	283	250	Denver		X	X	X	X	X	X	X	X	X	
										X	X	X	X	KOAC	1110	270	500	Corvallis		X	X	X	X						
						X	X			X	KLZ	750	400	1000	Denver		X	X	X							X	X	X	
X	X				X	X				X	KMO	1180	254	250	Tacoma			X	X	X	X								
X	X	X	X	X	X	X	X			X	X	X	X	KEX	1258	246	2500	Portland	X	X	X	X	X	X					

For Radiolas 20, 25 or 28--Sterling Power Team

WEDNESDAY TIME TABLE

ADJUSTED TO PACIFIC TIME
(X) Indicates Station is On the Air

10-12 A.M.		12-2 P.M.		2-4 P.M.		4-6 P.M.		STATIONS				6-8 P.M.		8-10 P.M.		10-12 P.M.															
10-10:30	10:30-11:00	11:00-11:30	11:30-12:00	12:00-12:30	12:30-1:00	1:00-1:30	1:30-2:00	2:00-2:30	2:30-3:00	3:00-3:30	3:30-4:00	4:00-4:30	4:30-5:00	5:00-5:30	5:30-6:00	CALL	Frequency in Kilocycles	Power in Watts	STATION	6:00-6:30	6:30-7:00	7:00-7:30	7:30-8:00	8:00-8:30	8:30-9:00	9:00-9:30	9:30-10:00	10:00-10:30	10:30-11:00	11:00-11:30	11:30-12:00
SOUTHERN CALIFORNIA																															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	670	626	500	Hollywood	X	X	X	X	X	X	X	X	X	X	
X	X																640	489	5000	Los Angeles	X	X	X	X	X	X	X	X	X	X	
X	X																680	441	500	San Diego	X	X	X	X	X	X	X	X	X	X	
		X	X							X	X	X	X	X	X		720	418	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	
										X	X	X	X	X	X		800	375	500	Sta. Monica	X	X	X	X	X	X	X	X	X	X	
X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		830	381	500	Hollywood	X	X	X	X	X	X	X	X	X	X	
X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		890	337	500	Hollywood	X	X	X	X	X	X	X	X	X	X	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X		925	323	100	Tia Juana											
																	950	316	1000	Pasadena	X										
		X	X														1000	300	250	Catalina	X	X	X	X	X	X					
										X	X						1040	288	500	Los Angeles		X	X	X	X						
X	X	X	X							X	X	X	X				1090	275	600	Los Angeles		X	X	X	X	X					
																	1100	273	100	Sta. Maria		X	X	X	X	X	X				
																	1140	283	600	Los Angeles	X	X	X	X	X	X	X	X	X	X	
X	X	X								X	X	X	X	X	X		1190	252	600	Los Angeles	X	X	X	X	X	X	X	X	X	X	
		X	X														1210	248	100	San Diego		X		X	X	X	X				
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		1240	242	500	Long Beach	X	X	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		1280	232	100	Los Angeles	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X												1310	229	250	Burbank	X	X									
																	1340	228	250	La Crescenta						X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		1340	224	250	Inglewood	X	X	X	X				X	X	X	
																	1350	222	100	Santa Ana	X	X									
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		1380	218	100	Long Beach	X	X	X	X	X	X	X	X	X	X	
		X	X														1420	211	50	Sta. Barbara							X	X	X	X	
X	X	X	X										X	X	X		1440	208	250	Venice							X	X	X	X	
			X	X	X	X	X	X	X	X	X	X	X	X	X		1440	208	100	Los Angeles	X	X	X	X	X					X	
			X	X	X	X											1470	204	100	Inglewood	X	X	X	X	X	X	X	X			
NORTHERN CALIFORNIA																															
X	X	X	X	X	X	X							X	X	X		590	508	500	Oakland	X	X	X		X	X	X	X			
X	X	X	X	X	X								X	X	X		660	454	1000	San Francisco	X	X	X		X	X	X	X	X	X	
	X	X	X	X	X	X							X	X	X		710	422	1000	San Francisco	X	X	X		X	X	X	X	X	X	
		X	X	X													780	384	8000	Oakland	X	X	X		X	X	X	X	X	X	
	X	X		X	X	X											870	309	500	San Francisco	X	X	X		X	X	X	X			
			X	X	X								X	X	X		1010	297	500	San Jose	X	X	X	X	X	X	X				
X	X	X	X	X	X								X	X	X		1070	280	500	Oakland	X	X	X		X	X	X	X			
		X	X	X									X	X	X		1120	288	500	San Francisco	X	X	X		X	X	X	X	X	X	
																	1220	248	100	Oakland		X									
NORTHERN AND WESTERN STATES																															
X	X	X															610	491	1000	Portland	X	X	X	X	X	X	X	X			
X				X	X	X							X	X	X		670	447	1000	Seattle	X			X	X	X	X	X	X	X	
		X															690	434	2000	Calgary		X	X	X							
		X															610	370	1000	Spokane		X	X	X	X	X	X	X			
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		880	348	2500	Seattle	X	X	X	X	X	X	X	X	X	X	
	X	X	X														920	326	5000	Denver	X	X	X	X	X	X					
	X	X	X	X									X	X	X		940	319	1000	Portland	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		980	306	1000	Seattle	X	X	X	X	X	X	X	X	X	X	
																	990	303	1000	Salt Lake City	X	X	X	X	X	X	X	X			
																	1060	288	250	Denver		X	X	X	X	X	X	X	X	X	
													X	X	X		780	400	1000	Denver	X	X	X	X							
																	1110	270	500	Corvallis		X	X	X	X						
X	X					X	X										1180	254	250	Tacoma		X	X	X	X	X	X				
X	X	X	X	X	X	X	X										1250	240	2800	Portland	X	X	X	X	X	X					



An Ideal Christmas Gift!



Nothing could be more appropriate . . . nothing could bring more genuine pleasure for that radio enthusiast friend of yours . . . than a Preston Permanent Radio Ground.

This highly efficient ground connection actually does increase volume . . . make possible sharper tuning . . . more and better distant reception . . . and eliminates resistance noises within the receiver that are often thought to be static discharges.

Christmas is approaching rapidly. Make the postman's Christmas happier by shopping early . . . mailing early. Your radio dealer should have the Preston Ground on hand. If not, write us . . . or phone. We'll see that you are supplied in ample time for the gift to be delivered before Christmas Day.

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Manufacturers

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Phone WEStmore 2411

THE SEROY COMPANY

*Distributors Northern California, Oregon, Washington
122 Broadway, OAKLAND, Calif.*



Merry Christmas!

Homes where Stewart-Warner radio appears among the family Christmas gifts will be assured of hundreds of happy days of pleasure . . . thousands of hours of genuine enjoyment of splendid programs from far and wide.

Stewart-Warner Matched Unit Radio is the product of one of the world's best known manufacturers . . . a manufacturer that has an acknowledged reputation for the manufacture of efficient electrical and magnetic apparatus.

Stewart-Warner radio has many exclusive features not to be found in other makes of radio. The tremendous manufacturing volume of Stewart-Warner radio makes possible highest quality merchandise . . . the utmost in efficiency . . . at extremely modest prices.

There's yet time to hear Stewart-Warner radio and make arrangements for delivery on Christmas Eve or morning. The model 520 console pictured sells for \$130 without accessories. The remarkably fair payment plan makes it easy to pay for.

UNGAR & WATSON, Inc.

Wholesale Distributors Stewart-Warner Radio

1366 South Figueroa St. Westmore 2411 LOS ANGELES

No
Batteries

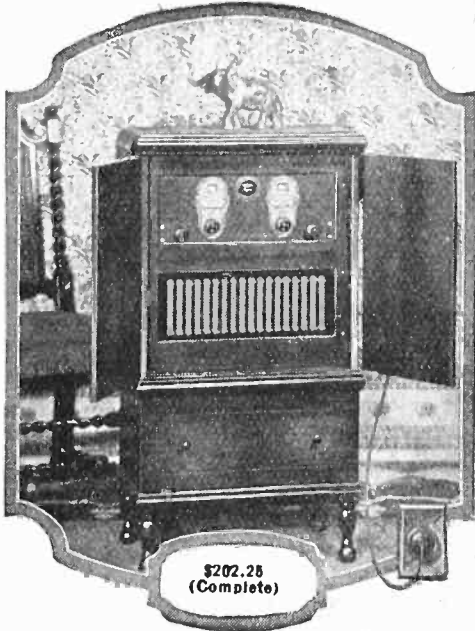
Steinite

All
Electric

(Licensed Under RCA)

The Only Time-Tested Electric Radio At
America's Lowest Prices

"Simple to Operate—A Joy to Listen to"



The steady, unflinching, limitless power supply of your electric light socket enables the Steinite to bring in distant stations with plenty of volume.

The Steinite line of receivers have six tubes, three stages of tuned radio frequency. Illuminated two-dial control. Genuine solid Philippine mahogany cabinets. Duco finish throughout.

The Steinite Console

Hi-boy console of beautiful solid mahogany, with built-in 20-in. air column speaker with Nathaniel Baldwin unit. The doors swing back entirely out of the way when receiver is not in use.

This model comes to you in one single unit, ready to GO the instant you plug into the light socket



A Compact Table Model in a Duco Finished Solid Mahogany Cabinet of Rare Beauty

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Los Angeles

(Your Neighborhood Dealer Is Listed On Opposite Page)



Christmas 1927

Give a **Steinite** Radio

A Radio that operates direct from your light socket—no bothersome batteries—tone quality that will surprise you. A Gift that will afford you real pleasure the entire year.

Call on one of these dealers for free demonstration:

“Let The Tone Test Tell You”

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Froweins Radio Shop
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Phone AX. 6836

Palmer Radio Co.
(Established 1923)
4529 S. Vermont
Phone VE. 7883

HUNTINGTON PARK

P. A. Dougherty
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Phone DE. 4852

HOLLYWOOD

Shepherd Radio Service
7562 Sunset Blvd.
Phone GR. 7482

H. A. Everest
1032 N. Ogden Dr.
Phone GR. 9915
Nightly Demonstrations

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Colorado 1671

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Phone Main 11

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J. Moskovita
462 Sixth St.
Phone 519

HUNTINGTON BEACH

Warner Hardware
112 Main St.
Phone 3431

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— :: —

“Let Xmas Night Be a Steinite”



Los Angeles, California—640 Kc.



KFI

5000 WATTS—468.5 METERS
 Radio Central Super-Station of Earl C. Anthony, Inc.
 1000 S. Hope. Phone WE. 0331. After 5 P.M., WE. 0337
 ROBERT HURD, Program Manager

ROBERT HURD

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 10:00 a. m.—Services, direction of L. A. Church Federation.
 5:30 p. m.—N. B. C. Crosley Radio Corporation broadcast over P. C. N.
 6:30 p. m.—N. B. C. Standard Oil program, Standard Symphony Orchestra over P. C. N.
 7:30 p. m.—Father Ricard's Sunspot Weather forecast.
 7:30 p. m.—Bob Buckner and his Sole Killers.
 8:00 p. m.—Aeolian Organ Recital.
 9:00 p. m.—N. B. C. program over P. C. N.
 10:00 p. m.—Bill Funk and his Packard Six Orchestra.

MONDAY, DECEMBER 19

- 5:30 p. m.—Léon Rene and his Southern Syncopaters.
 6:15 p. m.—George Wilder Cartwright.
 6:30 p. m.—Gamut Male Quartet.
 7:00 p. m.—Gene Johnston's Music Box Hour.
 8:00 p. m.—N. B. C. program over the P. C. N.
 9:00 p. m.—Matinee Musical Club program.
 10:00 p. m.—Metropolitan Dance Orchestra.

TUESDAY, DECEMBER 20

- 5:30 p. m.—The Dragon Hawaiians.
 6:00 p. m.—Florence Sanger, Piano Moods.
 6:15 p. m.—Prof. Carl S. Knopf.
 6:30 p. m.—Glenn Edmunds and his Collegians.
 7:00 p. m.—L. A. Fire Dept. Orchestra.
 8:00 p. m.—Cecil R. McFarland, bass bori-tone.
 8:30 p. m.—N. B. C., U. S. Playing Card Co. Bridge Game, over P. C. N.
 9:00 p. m.—N. B. C., National Carbon Co., Eveready Hour, over P. C. N.

WEDNESDAY, DECEMBER 21

- 10:45 to 11:05 a. m.—Betty Crocker, Gold Medal Talks.
 5:30 p. m.—Sebastians Cotton Club Orchestra.
 6:15 p. m.—Dr. H. Edward Meyers.
 6:30 p. m.—Hal Chasnoff's Orchestra.
 7:30 p. m.—Nick Harris, Detective Stories—"The Christmas of Jimmie the Rat."
 7:45 p. m.—William MacDougall, Scotch entertainer.

- 8:00 p. m.—California Petroleum Corporation.
 9:00 p. m.—N. B. C. program over P. C. N.
 10:00 p. m.—Winifred Hooke, concert pianist.
 10:30 p. m.—Nellie Callender Mills, violinist; Irene Dalton, pianist.

THURSDAY, DECEMBER 22

- 5:30 p. m.—Vernon Elkins' Dixieland Orchestra.
 6:15 p. m.—Police Commissioner Thorpe.
 6:30 p. m.—Henry Starr, popular vocalist and pianist.
 7:00 p. m.—Program by University of Southern California.
 8:00 p. m.—N. B. C., California Petroleum Corporation over P. C. N.
 9:00 p. m.—N. B. C., Henry Starr and his Musical Comets, Silverton Ladies' Quartet.
 10:00 p. m.—Program of modern classical music; Purcell Mayer in violin classics.

FRIDAY, DECEMBER 23

- 10:45 to 11:05 a. m.—Betty Crocker, Gold Medal Talks.
 5:30 p. m.—Program by Eugene Biscailuz; Bill Kuehl, tenor, ballads; Urban Thielman, pianist.
 6:00 p. m.—Florence Sanger, piano moods.
 6:15 p. m.—Griffith Jones, Raditorial Period.
 6:30 p. m.—Norma West, ballads of all lands.
 7:00 p. m.—Paul Roberts program.
 8:00 p. m.—N. B. C., Wrigley program, over P. C. N.
 9:00 p. m.—N. B. C., Memory Lane, over P. C. N.
 10:00 p. m.—Shirley Mirkin, European pianist; Carl Zapf, violinist.

SATURDAY, DECEMBER 24

- 5:30 p. m.—Strangers Social Club Orchestra.
 6:15 p. m.—Francis Sullivan, Literary Talks.
 6:30 p. m.—Tarvin Sisters, Harmony singers.
 7:00 p. m.—Wilfred Fletcher, tenor; Vernoa Arvey, concert pianist.
 8:00 p. m.—N. B. C. program over the P. C. N.
 9:00 p. m.—N. B. C., Philadelphia Storage Battery Co. over the P. C. N.
 10:00 p. m.—Packard program; Ed. C. Crossman, contralto.
 11:00 to 2:00 a. m.—KFI Midnight Frolic; L. A. Fire Dept. Orchestra.

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1275 Norton Ave.

H. & S. Radio Co.

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4206 W. Washington St.

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WILLIAM RAINEY
Announcer

National Broadcasting Co., Inc.

PACIFIC COAST NETWORK

KFI - KPO - KGO - KGW - KOMO - KFOA - KHQ

Program for Week Commencing Sunday, December 18

Sunday, Dec. 18—6:30 to 7:30 P. M.

Selections from the works of famous composers, including Beethoven, Tschaiakowsky, Kreisler and Saint-Saens, will be offered in the Standard Symphony Hour. This weekly presentation sponsored by the Standard Oil Co. of California features the Standard Symphony Orchestra and the noted cellist, Michel Penha.

Sunday, Dec. 18—9 to 10 P. M.

The National Players will enact outstanding events of the "Boston Tea Party." The radio version of this story is prepared by Henry Fish Carlton. Jean Paul King will play a leading role and direct the cast before the microphone.

The radio portrayal will introduce Samuel Adams, Josiah Quincy, John Dickinson and other historically famous characters whose names are synonymous with "The Boston Tea Party."

Monday, Dec. 19—8 to 9 P. M.

A variety of popular and semi-classical selections. The vocal soloists, Eileen Piggott, Mary Groom Richards, William Rainey and Gwynfi Jones, will contribute their talents in conjunction with the National Broadcasting Company's orchestra.

Tuesday, Dec. 20—8:30 to 9 P. M.

Bridge players will again have an opportunity to follow the game as played by experts, when the eighth of the Auction Bridge Series is presented.

Tuesday, Dec. 20—9 to 10 P. M.

The Eveready Hour, the oldest regular feature of radio entertainment, will again be presented tonight. For the past few weeks this hour has offered a new type of program in which classical and semi-classical selections have been played by a Standard Concert Orchestra.

Tuesday, Dec. 20—10 to 11 P. M.

"The Third Ingredient" is the O. Henry story to be presented.

This is the story of the trials and tribulations of Hetty, a New York shop girl, and her sister, Cecelia, a struggling artist. Every girl has her own idea of a Prince Charming, and whether he comes into her life as a floor-walker or as a hero rescuing her from the briny deep, it is all the same in the end. It is not unheard of for so simple a thing as an onion to play a part in a person's life, and in this particular story it is an onion that saves the day and marks the turning point in three lives.

Wednesday, Dec. 21—9 to 10 P. M.

The gateway to Peking is Tientsin, and tonight the Vagabonds will take you through this old city. They arrive in Tientsin on a Japanese ship and land on the French Bund, which is the Hai Ho waterfront in the French concession. As they land, the French Infantry Regi-

ment is welcoming a new commandant who has arrived from Shanghai on a French man-of-war while the band plays the stirring strains of "La Marseillaise."

Thursday, Dec. 22—9 to 9:30 P. M.

Dodge Brothers will present the second of their new weekly half-hour entertainments.

Radio listeners will recognize this program by the fanfare of trumpets preceding each division, and also by the novel "Please Stand By" given by the Saxophone.

Thursday, Dec. 22—9:30 to 10 P. M.

Kajetan Attl, Bohemian harp soloist, and the Moon Maid will feature in the second of the new National Broadcasting Company presentations known as "Moon Magic."

Mr. Attl will play two numbers, "Aubade," by Hasselmans, and "Spring," by Gounod. The first is a picture in music of the dawn gradually sifting up from below the horizon, in shades of tender rose-color and gold. The second, Gounod's "Spring," portrays the awakening of the springtime, with the leaves opening green on the trees, and the birds singing and twittering on the branches in the warm sunshine.

Friday, Dec. 23—8 to 9 P. M.

Tonight as the deep-toned bell chimes three times we know it is 8 o'clock and the Wrigley Spearmen are off to the Magic Isle for their fourth appearance before the radio audience of the Pacific Coast Network. King Spear directs the gates of the Great Gray Castle be opened and amid the rattle of chains and the stirring strains of the Wrigley March the little spearmen pass in review.

Friday, Dec. 23—9 to 10 P. M.

Professor Herman Schnitzel will preside at the commencement exercises of the "Little Red Schoolhouse."

Saturday, Dec. 24—8 to 9 P. M.

The R. C. A. weekly entertainment feature, through the courtesy of the Radio Corporation of America, will be broadcast tonight at the usual hour. The R. C. A. 15-piece wood-wind and string ensemble and the soloists, Barbara Blanchard, Margaret O'Dea and William Rainey, will combine their talents in the rendition of a program of pleasing, refreshing and melodious selections.

Saturday, Dec. 24—9 to 10 P. M.

As the last note of the musical chimes tolls the hour of nine, the rousing chorus of the Artillery Song ushers in another Philco Hour, which means a variety of radio entertainment of the highest order.

Saturday, Dec. 24—10 to 12 P. M.

Tonight's broadcast will mark the second of the newly inaugurated two-hour dance programs.



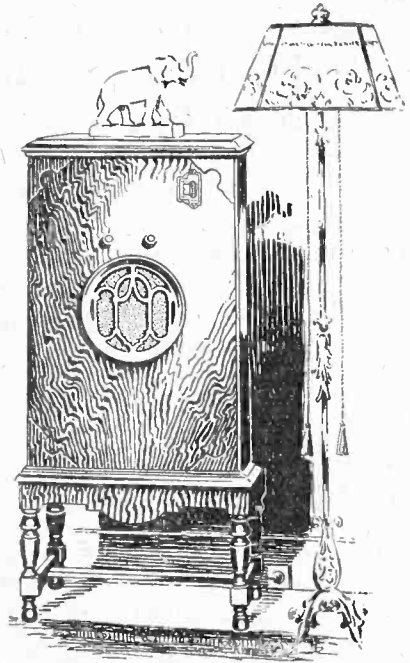
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ERNEST G. UNDERWOOD, Technical Director

DAILY EXCEPT SUNDAY—

- 12:30 to 1:30 p. m.—Stock and weather reports, musical program and announcements.
- 3:00 to 4:00 p. m.—Matinee Melody Masters.
- 8:00 to 6:45 p. m.—Viennese Quintette, except Monday, Friday and Saturday.
- 6:45 to 7:00 p. m.—World Wide News.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 9:00 to 10:00 a. m.—Pop Concert.
- 10:00 to 12:00 p. m.—Studio Program.
- 10:30 to 12:30 p. m.—First M. E. Church.
- 4:00 to 5:00 p. m.—Victor Herbert Hour.
- 6:00 to 6:45 p. m.—Dinner Music.
- 6:45 to 7:00 p. m.—World Wide News.
- 7:00 to 8:00 p. m.—First M. E. Church.
- 8:00 to 9:00 p. m.—Concert.
- 9:00 to 10:00 p. m.—Gamut Quartette.

MONDAY, DECEMBER 19

- 6:00 to 6:45 p. m.—Chamber Music—Irma Lucas, contralto.
- 7:00 to 8:00 p. m.—Music Review Boys.
- 8:00 to 9:00 p. m.—Government Frost Reports and Quartette.
- 9:00 to 10:00 p. m.—Flamingo Sextette.
- 10:00 to 11:00 p. m.—Cadillac-LaSalle Concert 8.

TUESDAY, DECEMBER 20

- 7:00 to 8:00 p. m.—KHJ Concert Orchestra.
- 8:00 to 9:00 p. m.—Variety Hour.
- 9:00 to 10:00 p. m.—Cadillac-LaSalle Concert 8.

- 10:00 to 11:00 p. m.—Cavalier's Dance Orchestra.

WEDNESDAY, DECEMBER 21

- 4:00 to 5:00 p. m.—"Garden Talk," by Fred C. McNabb.
- 7:00 to 8:00 p. m.—Cadillac-LaSalle Concert
- 8:00 to 9:00 p. m.—Music Review Boys.
- 9:00 to 10:00 p. m.—Earl Coatesworth, tenor.
- 10:00 to 11:00 p. m.—Ray and Jim—Variety.

THURSDAY, DECEMBER 22

- 7:00 to 8:00 p. m.—Cavaliers.
- 8:00 to 9:00 p. m.—The Orioles.
- 9:00 to 10:00 p. m.—Variety.
- 10:00 to 11:00 p. m.—Earl Coatesworth.

FRIDAY, DECEMBER 23

- 6:00 to 6:45 p. m.—Irma Lucas, contralto.
- 7:00 to 8:00 p. m.—KHJ Concert Orchestra.
- 8:00 to 9:00 p. m.—Ray and Jim.
- 9:00 to 10:00 p. m.—Gamut Quartette.
- 10:00 to 11:00 p. m.—The Georgians.

SATURDAY, DECEMBER 24

- 6:00 to 6:45 p. m.—Dinner Music.
- 7:00 to 8:00 p. m.—Earl Coatesworth.
- 8:00 to 9:00 p. m.—Flamingo Sextette.
- 9:00 to 10:00 p. m.—KHJ Concert Orchestra.
- 10:00 to 11:00 p. m.—Bob and Buster



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NAYLOR ROGERS
Manager

DAILY EXCEPT SUNDAY—

- 6:45 to 8:00 a. m.—Gold Seal early bird exercises, courtesy of Sanitary Gold Seal Dairy.
- 8:00 a. m.—Inspirational talk and morning prayer.
- 8:55 a. m.—Time Signals from Washington, D. C., followed by Birthday Notices.
- 9:00 a. m.—Radio Shopping News, conducted by Carrie Preston Rittmeister.
- 10:00 a. m.—Town Crier of the Day's morning message.
- 10:30 a. m.—Kate Brew Vaughn, director Household Economics Department, Evening Express, except Friday and Saturday.
- 12:00 noon.—Musical program.
- 12:30 p. m.—W. F. Alder Travelogue.
- 1:30 p. m.—The Bookworm.
- 2:00 p. m.—Musical program.
- 3:00 p. m.—C. P. R.'s musical program.
- 4:15 p. m.—Lost and Found announcements.
- 4:25 p. m.—Market reports.
- 5:00 p. m.—"Own Your Own Home," by Chet Mittendorf.
- 5:45 p. m.—"Amusement Tips."
- 6:00 p. m.—Biltmore Hotel Orchestra, broadcast from the Biltmore Dining Room.
- 6:30 p. m.—Dinner hour concert, directed by Paul Finstein.

DAILY EXCEPT SUNDAY AND TUESDAY—

- 10:00 p. m.—Earl Burtnett's Biltmore Hotel Orchestra (except Tuesday and Friday).
- 11:00 p. m.—Hotel Ambassador; Gus Arnheim's Coconut Grove Orchestra.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

MONDAY, DECEMBER 18

- 10:00 a. m.—1st Presbyterian Church of Hollywood.
- 2:00 to 4:00 p. m.—City Park Board musical program.
- 5:15 p. m.—All-Souls Church.
- 6:30 p. m.—First Unitarian Church.
- 7:00 p. m.—1st Presbyterian Church of Hollywood.
- 8:00 p. m.—Circle Theater Concert Orchestra.
- 9:00 p. m.—Calmon Luboviski, master violinist; Claire Mellonino, pianist.

MONDAY, DECEMBER 19

- 11:00 a. m.—French lessons by Edgard Leon.
- 2:30 p. m.—"Human Nature," by William Benton.
- 4:30 p. m.—Little Jean and the Town Crier
- 6:45 p. m.—Gene Leonard,
- 7:00 p. m.—Feature program.
- 7:30 p. m.—One-act play by the KNX players.
- 8:00 p. m.—Feature program.

TUESDAY, DECEMBER 20

- 11:00 a. m.—French lessons by Edgard Leon.
- 12:45 p. m.—Advertising Club Luncheon from the Biltmore Hotel.
- 4:00 p. m.—Little Joyce Coad, movie star.
- 7:00 p. m.—Feature program.
- 7:30 p. m.—Birkel Music Co.
- 8:00 p. m.—Earl Burtnett's Biltmore Hotel Orchestra.
- 9:00 p. m.—Grauman's Chinese Theater
- 10:00 p. m.—Hoetl Ambassador, Gus Arnheim's Coconut Grove Orchestra.

WEDNESDAY, DECEMBER 21

- 11:00 a. m.—Charles W. Hamp.
- 4:00 p. m.—Garden talk by Dewey R. Kruckeberg, of Theodore Payn's Nurseries.
- 7:00 p. m.—Playgoers' Club, conducted by Wedgwood Nowell.
- 7:30 p. m.—Charles Hamp.
- 8:00 p. m.—Feature Program.

THURSDAY, DECEMBER 22

- 11:00 a. m.—Talk on insects by H. W. McSpadden, manufacturer Marvel Ant Gelatin.
- 4:00 p. m.—Louise Johnson giving horoscopes.
- 7:00 p. m.—Carthay Circle Theater organ
- 8:00 p. m.—Calmon Luboviski, master violinist; Claire Mellonino, pianist.
- 9:00 p. m.—Zenith Carburetor Co.

FRIDAY, DECEMBER 23

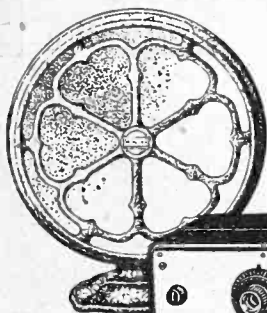
- 2:00 p. m.—L. A. District Federation of Women's Clubs musical program.
- 6:45 p. m.—Gene Leonard.
- 8:00 p. m.—Davis Perfection Bread Co.
- 9:00 p. m.—Earl Burtnett's Biltmore Hotel Orchestra.
- 10:00 p. m.—Broadcasting the main events from the Hollywood Legion Stadium.

SATURDAY, DECEMBER 24

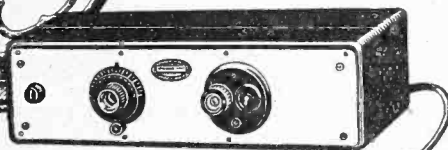
- 2:15 p. m.—Broadcasting the football game from the Los Angeles Coliseum.
- 7:00 p. m.—Playgoers' Club, conducted by Wedgwood Nowell.
- 7:30 p. m.—Stories of insect life
- 8:00 p. m.—Feature program.
- 10:00 p. m.—Earl Burtnett's Biltmore Hotel Orchestra.
- 12:00 p. m.—The Midnight Express.

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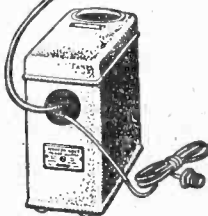
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DAILY EXCEPT SUNDAY—

10:00 to 10:30 a. m.—Air Circus, except Thursday.
10:30 to 11:00 p. m.—Advance Electric Co. program.
11:00 to 11:10 a. m.—Aunt Sammy Talks, except Saturday.
11:30 to 12:30 p. m.—Shopping Directory.
12:30 to 1:30 p. m.—Who's Who.

1:30 to 2:30 p. m.—Classified Hour.
4:45 to 5:15 p. m.—Air Circus.
5:15 to 5:45 p. m.—Radio Review.
5:45 to 6:00 p. m.—Town Tattler.
6:00 to 7:00 p. m.—Dinner Hour Concert.
7:50 to 8:00 p. m.—Daily News, except Tues. and Sat.
10:00 to 11:00 p. m.—Dance program.
11:00 to 12:00 midnight—Dance music.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18
7:30 to 7:50 p. m.—Musical program.
7:59 to 8:00 p. m.—Daily news.
8:00 to 9:00 p. m.—Light opera program.
9:00 to 9:10 p. m.—Daily news.
9:10 to 10:00 p. m.—Charlotte DeLovelace, blues songs, and Movieland Orchestra.
MONDAY, DECEMBER 19
9:45 to 10:00 a. m.—Talk by a diet specialist.
11:10 to 11:30 a. m.—Musical program.
7:00 to 7:20 p. m.—Ina Mitchell Butler, soprano; Lucille Scott, pianist.
7:20 to 7:50 p. m.—Musical program.
8:00 to 9:00 p. m.—Charles Beauchamp, tenor; Pontiac Six String Quintette.
9:00 to 10:00 p. m.—Ann Grey, blues songs; Don Warner's Dance Orchestra.
TUESDAY, DECEMBER 20
11:10 to 11:30 a. m.—Musical program.
7:00 to 7:30 p. m.—Musical program.
7:30 to 8:00 p. m.—Thirty minutes of sunshine by Charlie Hamp.
8:00 to 9:00 p. m.—June Parker, blues songs; Warner Bros.' Trio.
9:00 to 10:00 p. m.—David Percy, baritone; Jack Cronshaw, Concert Quartette.

WEDNESDAY, DECEMBER 21
9:45 to 10:00 a. m.—Talk by a Diet specialist.
11:10 to 11:30 a. m.—Musical program.
2:30 to 4:45 p. m.—The Landry-Dooley Orchestra.
7:00 to 7:50 p. m.—Program presented by Radio Doings, featuring Audrey Davis in ballads; Glenn Edmunds and his Collegians.
8:00 to 9:00 p. m.—Emma Kimmel, soprano; Cyril Codwin's Concert Trio.
9:00 to 10:00 p. m.—Gene Johnston's Hour, with trio and vocal soloists.

THURSDAY, DECEMBER 22
11:10 to 11:30 a. m.—Musical program.
4:15 to 4:45 p. m.—Los Angeles Police Quartette.
7:00 to 7:20 p. m.—Musical program.
7:20 to 7:50 p. m.—Elec-Tru-Tone Corp. program.
8:00 to 9:00 p. m.—Morris Sisters, harmony numbers; Warner Bros.' Hawaiian Trio.
9:00 to 10:00 p. m.—Robert Cheatham, baritone; Louise Sullivan's Trio.

FRIDAY, DECEMBER 23

11:10 to 11:30 a. m.—Musical program.
4:15 to 4:45 p. m.—A. T. Rainey, Psychic.
7:00 to 7:30 p. m.—A program presented to the school children of Los Angeles, featuring Santa Claus, direct from his workshop at the North Pole.
7:30 to 7:45 p. m.—Vernon Rickard, tenor, by courtesy of Floyd's Toy Shop.
8:00 to 9:00 p. m.—Archie Ruggles, tenor; Leon Belasky and his Concert Quartette.
9:00 to 10:00 p. m.—Ann Grey, blues songs; Warner Bros.' Dance Orchestra.

SATURDAY, DECEMBER 24

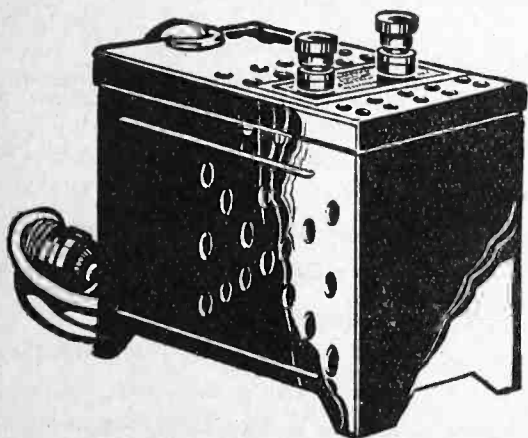
11:00 to 11:30 p. m.—Musical program.
2:30 to 3:30 p. m.—Harry Owens Orchestra.
3:30 to 3:45 p. m.—Musical program.
3:45 to 4:45 p. m.—The Landry-Dooley Orchestra.
7:00 to 7:30 p. m.—A one-act play presented by the Playshop Players.
7:30 to 8:00 p. m.—Program in honor of the Illustrated Daily News.
8:00 to 9:00 p. m.—Program featuring Mono-Motor Oilers; Lilyan May Challenger, contralto.
9:00 to 10:00 p. m.—The Landry-Dooley Orchestra.

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TOM MITCHELL

DAILY EXCEPT SUNDAY—

- 7:00 to 7:30 a. m.—Setting-up exercises by Professor Barclay L. Severns.
7:30 to 8:30 a. m.—Louise Howatt's Happiness Hour.
8:45 to 9:00 a. m.—Time signals from Washington, D. C., and musical numbers.
11:00 a. m. to 12:00 noon—"Don't Go 'Way, Folks," Hour, directed by Charlie Wellma
12:00 to 12:30 p. m.—Hair-A-Gain courtesy program.
1:30 to 2:00 p. m.—KMTR Press Agent Hour.
4:30 to 5:30 p. m.—Brother Tom's Smiling Circle.
5:30 to 6:00 p. m.—Certified Air Bulletins.
6:00 to 6:15 p. m.—Nightly Doings.
6:30 to 6:45 p. m.—Dinner hour program.
6:45 to 7:30 p. m.—Fitzgerald Music Company courtesy program, featuring Ampico ar
Panatope.
10:00 to 11:00 p. m.—Miller's Cafe Lafayette Dance Orchestra, Ray West, director.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 6:15 to 6:30 p. m.—Nightly Doings.
6:30 to 7:00 p. m.—Bur McIntosh's Half Hour of Cheer.
7:00 to 8:00 p. m.—Miller's Cafe Lafayette Concert Orchestra.

- 8:00 to 10:00 p. m.—Program, featuring Loren Powell's Little Symphony.

MONDAY, DECEMBER 19

- 7:30 to 8:00 p. m.—Thirty minutes of Sunshine with Charles Hamp.
8:00 to 8:30 p. m.—Hair-A-Gain courtesy program.

- 8:30 to 10:00 p. m.—Courtesy Program.

TUESDAY, DECEMBER 20

- 9:00 to 10:00 a. m.—Sylvia, the Blind Cook.
10:00 to 11:00 a. m.—Hair-A-Gain program.
4:00 to 4:30 p. m.—L. A. Police Male Quartette.

- 7:30 to 8:00 p. m.—The game of "Ask Me Another," played under the direction of Edward Murphy.

- 8:00 to 9:00 p. m.—Maxwell House Orchestra, Jean Cameron, in a program of light opera.

- 9:00 to 10:00 p. m.—C. E. Toberman Co., Outpost Estates, courtesy program.

WEDNESDAY, DECEMBER 21

- 9:30 to 10:00 a. m.—Travel talk by Dr. S. J. Matheison.

- 1:00 to 1:30 p. m.—Hollywood Chamber of Commerce courtesy program.

- 3:30 to 4:00 p. m.—Carthay Circle Theater prologue.

- 6:15 to 7:00 p. m.—Walker's courtesy program.

- 7:30 to 8:00 p. m.—The KMTR Players in one-act play.

- 8:00 to 8:30 p. m.—Hair-A-Gain courtesy program.

- 8:30 to 10:00 p. m.—Courtesy Program.

THURSDAY, DECEMBER 22

- 9:00 to 10:00 p. m.—Sylvia, Blind Cook.
10:15 to 10:45 a. m.—Dr. Paul J. Doros "Diet Question Box."

- 10:45 to 11:45 a. m.—Hair-a-Gain program.
5:00 to 5:30 p. m.—Dr. Gustav Boorkma "Institute of Popular Medical Education."

- 7:30 to 8:00 p. m.—Thirty minutes of Sunshine with Charles Hamp.

- 8:00 to 10:00 p. m.—Ruth Roland Night.

FRIDAY, DECEMBER 23

- 10:00 to 11:00 a. m.—Thirty minutes of Sunshine with Charles Hamp.

- 1:15 to 1:30 p. m.—Walter Brown Murray "How to Make Children Behave."

- 3:30 to 4:00 p. m.—Pacific Electric Art and his banjo.

- 6:15 to 7:00 p. m.—Walker's courtesy program.

- 7:30 to 8:00 p. m.—Robertson Company courtesy program.

- 8:00 to 9:00 p. m.—Courtesy Program.

- 9:00 to 10:00 p. m.—C. E. Toberman Company, Outpost Estates, courtesy program.

SATURDAY, DECEMBER 23

- 9:00 to 10:00 a. m.—Sylvia, Blind Cook,
10:45 to 11:15 a. m.—Gordon Whitnell, City Planning Commission.

- 7:30 to 7:40 p. m.—M. D. Benesh.

- 7:40 to 8:00 p. m.—KMTR Movie Club.

- 8:00 to 10:00 p. m.—Courtesy Program.

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DAILY EXCEPT SUNDAY—

- 11:00 to 12:00 a. m.—Baron Keyes Diversities,
3:00 to 4:00 p. m.—Palais de Dance by remote control,
4:00 to 4:03 p. m.—Bulletin—Health Commissioner Dr. Geo. Parrish.
4:03 to 4:30 p. m.—Records, through courtesy of Barker Bros.
4:30 to 5:00 p. m.—Air Castle.
5:00 to 6:00 p. m.—Sundown Frolic, conducted by Baron Keyes.
6:00 to 7:00 p. m.—Dinner Hour Program, featuring the White King Quartet and Mission Bell Orchestra, through courtesy of Los Angeles Soap Co.
7:00 to 7:05 p. m.—Sports Review from the "Referee."
7:05 to 8:00 p. m.—KPLA Orchestra and other KPLA artists.
10:00 to 11:00 p. m.—Palais de Dance by remote control,

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 7:30 to 8:00 p. m.—Dr. David Edstrom,
8:00 to 10:00 p. m.—KPLA Orchestra,

- 9:00 to 10:00 p. m.—Frank Barry, tenor;
Pat O'Neil, baritone; Grady T. Sampson,

THURSDAY, DECEMBER 22

- 4:30 to 5:00 p. m.—The Air Castle.
8:00 to 8:30 p. m.—Nunez Trio.
8:30 to 9:00 p. m.—G. E. Roletti and Jas. Mulligan.
9:00 to 10:00 p. m.—Original Musical Show

MONDAY, DECEMBER 19

- 4:30 to 5:00 p. m.—The Air Castle.
5:00 to 5:30 p. m.—Spanish course
8:00 to 9:00 p. m.—Ida Schutz, soprano;
Coral Atkin, pianist; Fred Clint, violinist.
9:00 to 10:00 p. m.—Hal Chasnoff String Ensemble; Mabel Lenahan.

FRIDAY, DECEMBER 23

- TUESDAY, DECEMBER 20
4:30 to 5:00 p. m.—The Air Castle.
8:00 to 8:30 p. m.—Virginia McCoy
9:00 to 10:00 p. m.—Bert Fahrquason, Frankie Merlowe, Mildred Procter.

- 4:30 to 5:00 p. m.—The Air Castle.
5:00 to 5:30 p. m.—Spanish course presented by Dr. Wm. F. Rice, R. A. Ramirez, F. Piera Gamba, Antonio Herras, Prof. Henry C. Niesa.
7:30 to 8:00 p. m.—Harold E. Titus, basso; Irving Jenkins, tenor.
8:00 to 9:00 p. m.—Hulda Dietz and Neil Russell; Florentine String Trio.
9:00 to 10:00 p. m.—West Coast Theater program.

WEDNESDAY, DECEMBER 21

- 4:30 to 5:00 p. m.—The Air Castle.
5:00 to 5:30 p. m.—Spanish course
8:00 to 8:30 p. m.—Billy Barron, Sam Roland in Vibraphone solos.
8:30 to 9:00 p. m.—Mabel Lenahan and LeRoy Kullberg.

SATURDAY, DECEMBER 24

- 4:30 to 5:00 p. m.—The Air Castle.
8:00 to 10:00 p. m.—Special Christmas program.

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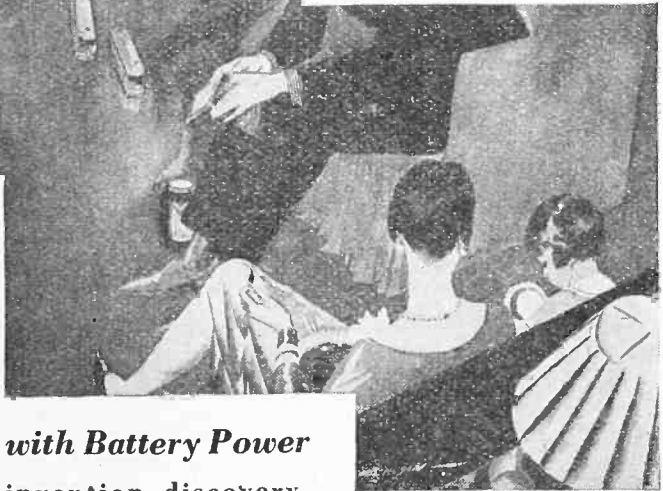
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DAILY EXCEPT SUNDAY AND MONDAY—

10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 a. m. to 12:30 p. m.—Noonday Musical.
 2:30 to 3:30 p. m.—Grey Studio Program, except Wednesday.
 6:30 to 7:30 p. m.—Angelus Hour.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

10:30 a. m. to 12:30 p. m.—Sunday morning worship, Aimee Semple McPherson.
 2:30 to 4:40 p. m.—Sunday afternoon, Disciplinary, Aimee Semple McPherson.
 6:30 to 9:30 p. m.—Revival Service, Aimee Semple McPherson.
 10:00 to 11:00 p. m.—Organ Recital, Esther Fricke Greene.

TUESDAY, DECEMBER 20

3:30 to 4:30 p. m.—Vesper Hour.
 7:30 to 9:15 p. m.—Evangelistic Service, Evangelist John Goben.

WEDNESDAY, DECEMBER 21

2:30 to 4:30 p. m.—Divine Healing Service, Aimee Semple McPherson.

7:30 to 9:30 p. m.—Regular Midweek Prayer Service, Aimee Semple McPherson.

THURSDAY, DECEMBER 22

3:30 to 4:30 p. m.—Vesper Hour.
 7:30 to 9:15 p. m.—Water Baptismal Service, Aimee Semple McPherson.
 9:15 to 10:00 p. m.—Grey Studio program.
 10:00 to 11:00 p. m.—Organ Recital, Esther Fricke Greene.

FRIDAY, DECEMBER 23

3:30 to 4:30 p. m.—Vesper Hour.
 7:30 to 9:30 p. m.—Crusader Rally, Aimee Semple McPherson.

SATURDAY, DECEMBER 24

3:30 to 4:30 p. m.—Children's Happy Hour.
 7:30 to 9:30 p. m.—Divine Healing Service, Aimee Semple McPherson.

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DAILY EXCEPT SATURDAY AND SUNDAY—

8:45 to 9:15 a. m.—Devotional Hour.
 2:00 to 3:00 p. m.—Inspirational Hour, except Monday.
 8:00 to 9:00 p. m.—Biblical Exposition (except Friday).

DAILY EXCEPT FRIDAY AND SUNDAY—

7:15 to 8:00 p. m.—Aunt Martha's Children's Hour.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

10:45 a. m. to 12:30 p. m.—Morning service of the Church of the Open Door.

3:00 to 4:00 p. m.—Jewish Radio Hour, musical program.

6:00 to 7:00 p. m.—Radio Vesper Service. Inspirational sermon by Dr. Ralph Atkinson, Associate Dean of the Bible Institute; soloist, Mrs. J. A. Davis; Mildren Boone at the organ.

7:15 to 9:30 p. m.—Evening service of the Church of the Open Door; organ prelude.

MONDAY, DECEMBER 19

2:00 to 3:00 p. m.—Monday Club. Special speaker, Herbert G. Tovey, soloist and song leader; Keith L. Brooks, pianist.

FRIDAY, DECEMBER 23

6:15 to 7:00 p. m.—Aunt Martha's Children's Hour.

7:00 to 8:00 p. m.—Exposition of International Sunday School lesson.

8:00 to 9:00 p. m.—Special Christmas address and musical program.

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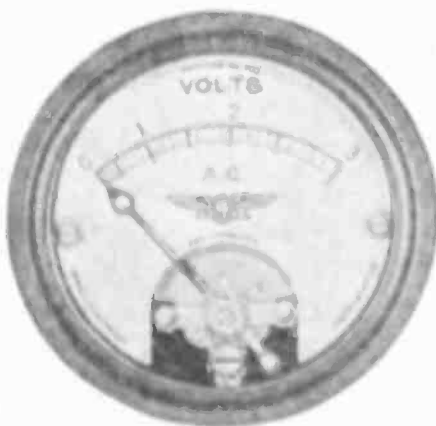
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DAILY EXCEPT SUNDAY—

- 6:30 to 8:00 a. m.—Breakfast Hour, featuring Ted Greenwaldt's Four-Leaf Clovers.
8:30 to 9:30 a. m.—Gordon Smith's Radiotising Service with the Electrola.
12:00 to 1:00 p. m.—Classical Hour of Electrola Music.
1:00 to 3:30 p. m.—Studio programs, varied daily.
3:30 to 4:30 p. m.—Gordon Smith's Radiotising Service, featuring Jack Brooks.
6:00 to 7:00 p. m.—Special programs, through the courtesy of the Aero-Adds Service.
8:00 to 9:00 p. m.—El Patio Hour, by remote control from the Ballroom.
12:00 to 6:30 a. m.—Am "Nite Owl" broadcast with Electrola music, Paul O'Hara, announcer.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927**SUNDAY, DECEMBER 18**

- 9:00 a. m. to 2:30 p. m.—Studio programs, featuring the Adkins Saxophone Ensemble

MONDAY, DECEMBER 19

- 6:00 to 7:00 p. m.—Aero-Adds Service, featuring Fred Thomasson
7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring the Imperial Orchestra.

TUESDAY, DECEMBER 20

- 6:00 to 7:00 p. m.—Aero-Adds Service, featuring Billy Eaves, tenor, and Otto Hoeg.
7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service with the Imperial Orchestra.

WEDNESDAY, DECEMBER 21

- 6:00 to 7:00 p. m.—Aero-Adds Service, with Otto Hoeg, pianist; Dorothy Fern, uke and songs; Marjorie Murrey, blues singer;
7:00 to 8:00 p. m.—Gordon Smith's Radio-

tising Service, featuring Martel and Erickson and Edith Berhman, soprano.

THURSDAY, DECEMBER 22

- 6:00 to 7:00 p. m.—Aero-Adds Service, featuring Miss Mason, whistler; Dorothy and Marjorie Cushman, cornet and whistler;
7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service, featuring Edith Berhman,

FRIDAY, DECEMBER 23

- 6:00 to 7:00 p. m.—Aero-Adds Service, featuring the Metropolitan School of Music and Dancing, with "Kiddies' Revue"
7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service,

SATURDAY, DECEMBER 24

- 6:00 to 7:00 p. m.—Aero-Adds Service, featuring Otto Hoeg, pianist; Billy Eaves, tenor; Mr. Lax, baritone;
7:00 to 8:00 p. m.—Gordon Smith's Radiotising Service,

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DAILY EXCEPT SUNDAY—

- 6:00 to 7:30 p. m.—Dinner Hour Program.

WEEK COMMENCING MONDAY, DECEMBER 19, 1927**MONDAY, DECEMBER 19**

- 6:00 to 7:30 p. m.—Dinner hour program.
Weekly Radio Talk by Dr. John Wesley Hancock.

TUESDAY, DECEMBER 20

- 8:00 to 9:00 p. m.—Anita Willys, Swiss concert singer, presenting German arias; Mildred Marchant, artistic whistler and accompanist; E. J. Willys, zither.
9:00 to 10:00 p. m.—Jack Gledhill's Orchestra; Grace Hirigoye, blues singer.

THURSDAY, DECEMBER 22

- 7:00 to 8:00 p. m.—KWTC Classical Trio; Harold Mathews, oboe; Vernon Shippee, flute; Adelaide Cochems, piano, with Ariel Thompson, guitar soloist.
8:00 to 8:30 p. m.—Arthur J. Smith, tenor; Allien Lair, pianist.

- 8:30 to 9:00 p. m.—Studio program.

- 9:00 to 10:00 p. m.—Conservatory of Music.

FRIDAY, DECEMBER 23

- 7:15 to 7:30 p. m.—Orange County Farm Bureau Weekly Period.

- 7:30 to 8:30 p. m.—"Rest Home for Aged" program; E. H. Elsner, director.

SATURDAY, DECEMBER 24

- 6:00 to 7:00 p. m.—Dinner hour program.

- 7:00 to 7:30 p. m.—Request period.

- 7:30 to 7:50 p. m.—Stamp Queen Hawaiian Trio.

- 7:50 to 8:30 p. m.—International Bible Students Assn. Debate: Music.

- 8:30 to 9:00 p. m.—Annamae Morgon, mezzo soprano, presenting Christmas Carols.

- 11:00 to 12:00 p. m.—Santa Ana Ginger Snaps.

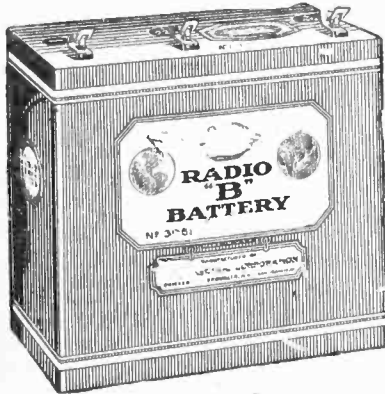


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- 8:00 to 9:00 a. m.—New Idea Man's Breakfast Hour.
- 9:00 to 10:00 a. m.—New Idea Man's Shopping Tour with Frank Martin.
- 11:00 to 12:00 a. m.—Organ Concert.
- 12:00 to 2:00 p. m.—Orthophonic Concert.
- 3:45 to 4:00 p. m.—Latest News Bulletins, courtesy of Inglewood Daily News.
- 5:00 to 6:45 p. m.—Studio organ recital, except Tuesday, Thursday and Saturday.
- 6:45 to 7:00 p. m.—Latest News Bulletins, except Tuesday.
- 10:00 to 12:00 p. m.—Dance program from Rubaiyat Ballroom, except Monday.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

- SUNDAY, DECEMBER 18**
- 11:00 a. m.—Centinella Baptist Church.
 - 8:00 p. m.—International Bible Students.

- MONDAY, DECEMBER 19**
- 10:00 a. m.—Geo. D. Fassett's Hawaiians.
 - 10:30 a. m.—Courtesy program.
 - 2:00 p. m.—Studio program.
 - 3:00 p. m.—Peggy Price and Morris Sisters.
 - 4:00 p. m.—Old Song Hour.
 - 5:00 p. m.—Studio organ.
 - 6:00 p. m.—Wm. Karston and David Rosenthal.

7:00 to 8:00 p. m.—KMIC concert.

TUESDAY, DECEMBER 20

- 10:00 a. m.—Courtesy program.
- 10:30 a. m.—Peggy Price.
- 12:00 noon—Studio program.
- 4:15 p. m.—Wm. Kanner Trio.
- 6:45 p. m.—White Rouge program.
- 7:00 p. m.—Dull's Melody Makers.

WEDNESDAY, DECEMBER 21

- 10:00 a. m.—Geo. D. Fassett's Hawaiians.
- 10:30 a. m.—Courtesy program.
- 2:00 p. m.—Studio program.
- 3:00 p. m.—L. A. Police Quartet.
- 4:00 p. m.—"Uncle" Marshall Stedman.

THURSDAY, DECEMBER 22

- 10:00 a. m.—Courtesy program.

- 10:30 a. m.—Peggy Price Request Period.
- 2:00 p. m.—Tiny Lewis and assisting artists.
- 3:00 p. m.—L. A. Fire Dept. Orchestra.
- 4:00 p. m.—Studio program.
- 5:00 p. m.—Collegiate hour.
- 6:00 p. m.—Artists of the Melting Pot.
- 7:00 p. m.—Studio program.
- 8:00 p. m.—Georgie Fibrigat's Orchestra.
- 9:00 p. m.—Radio Doings and Georgia Fibrigat's Orchestra.

FRIDAY, DECEMBER 23

- 10:00 a. m.—Courtesy program.
- 10:30 a. m.—Studio program.
- 2:00 p. m.—Studio program.
- 3:00 p. m.—Studio program.
- 4:00 p. m.—Bob and Buster.
- 7:00 p. m.—Dick Ross Collegians.
- 7:45 p. m.—Bridge lesson.

SATURDAY, DECEMBER 24

- 10:30 a. m.—Courtesy program.
- 2:00 p. m.—Little Eddie Barnes Frolic.
- 5:00 p. m.—Collegiate hour.
- 6:00 p. m.—Moonlight Garden Orchestra.
- 7:00 p. m.—Barnet Trio.
- 8:00 p. m.—The Serenaders Quintet.
- 9:00 p. m.—The Melody Maids.



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DAILY EXCEPT SUNDAY—

- 12:00 to 1:00 p.m.—Panatropé entertainment.
- 5:00 to 6:00 p.m.—Booster Hour, courtesy So. Cal. Mfrs. Exhibit.
- 6:00 to 7:00 p.m.—Panatropé Dinner Hour, courtesy Barker Bros.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 7:00 to 8:00 p.m.—Atkins Saxophone Ensemble; Madge McConnell, soloist.
- 8:00 to 9:00 p.m.—Columbia Viva Tonal Records.
- 9:00 to 11:00 p.m.—Lou Goldwater

MONDAY, DECEMBER 19

- 7:00 to 8:00 p.m.—Calawaiia Hawaiian Trio,
- 8:00 to 9:00 p.m.—Hollywood Pals.
- 9:00 to 10:00 p.m.—Myra Bell Vickers
- 10:00 to 11:00 p.m.—Jack Lee's Orchestra.

TUESDAY, DECEMBER 20

- 7:00 to 7:30 p.m.—Virginia Robere,
- 7:30 to 8:00 p.m.—Lucia Ruiz Jay,
- 8:00 to 9:00 p.m.—Beverly Playboys;
- 9:00 to 11:00 p.m.—Mel Glass and his Kings of Syncopation.

WEDNESDAY, DECEMBER 21

- 7:00 to 8:00 p.m.—Clint Stevenson's Hawaiian Trio.

- 8:00 to 9:00 p.m.—Brandy and his White Ballroom Orchestra.
- 9:00 to 10:00 p.m.—Joe Edmiston, pianist;
- 10:00 to 11:00 p.m.—Solly Levin and his California Poppies.

THURSDAY, DECEMBER 22

- 7:00 to 8:00 p.m.—Leslie E. Taft
- 9:00 to 10:00 p.m.—Viola Mayot,
- 10:00 to 11:00 p.m.—Jack Lee and his orchestra.

FRIDAY, DECEMBER 23

- 7:00 to 8:00 p.m.—Playgoers Club,
- 9:00 to 10:00 p.m.—Frank Martin, Neva Negus, Lucille Anderson and Hale Hooper
- 10:00 to 11:00 p.m.—KFQZ Orchestra.

SATURDAY, DECEMBER 24

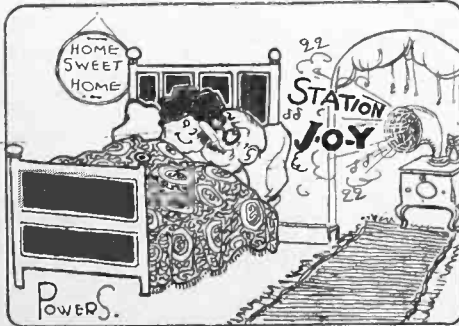
- 7:00 to 8:00 p.m.—Louise Moody Trio
- 9:00 to 10:00 p.m.—Leonard Van Berg
- 10:00 to 11:00 p.m.—Jack Lee and his orchestra and Leonard Van Berg.

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DAILY EXCEPT SUNDAY—

- 1:30 to 2:30 p. m.—Kierulff & Ravenscroft courtesy program.
- 3:00 to 3:30 p. m.—Story Hour.
- 3:30 to 4:30 p. m.—Crosley Preview.
- 6:00 to 7:00 p. m.—Casa DeDl Mar organ.
- 7:00 to 8:00 p. m.—Merchants' Preview.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18
 10:45 to 11:45 a. m.—Pilgrim Lutheran Church services.

- 2:30 to 4:00 p. m.—Band concert.
- 7:00 to 8:00 p. m.—Casa del Mar organ.
- 8:00 to 9:00 p. m.—Band concert.

MONDAY, DECEMBER 19
 1:30 to 2:30 p. m.—Kierulff & Ravenscroft courtesy hour.

- 2:30 to 3:00 p. m.—Request program.
- 8:00 to 10:00 p. m.—Studio program.

TUESDAY, DECEMBER 20
 2:30 to 3:00 p. m.—International Bible Students Association.

- 4:00 to 4:30 p. m.—F. C. Gardner, Seventh Day Adventist Church.
- 4:30 to 5:00 p. m.—Crosley preview.
- 8:00 to 10:00 p. m.—Studio program featuring Hal Denny Trio.

WEDNESDAY, DECEMBER 21
 2:30 to 3:00 p. m.—Rev. Charles Watson, the Optimistic Parson.
 8:15 to 8:30 p. m.—Eugene Biscalluz.
 8:30 to 10:30 p. m.—Prize fights from Ocean Park Athletic Club.

THURSDAY, DECEMBER 22
 2:30 to 3:00 p. m.—International Bible Students Association.
 8:00 to 10:00 p. m.—Studio program featuring Vaughn Trio.

FRIDAY, DECEMBER 23
 2:30 to 3:00 p. m.—Request program.
 8:00 to 10:00 p. m.—Studio program.

SATURDAY, DECEMBER 24
 2:30 to 3:00 p. m.—International Bible Students Association.
 8:00 to 9:00 p. m.—Band concert.
 9:00 to 10:00 p. m.—Cables Club.

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DAILY EXCEPT MONDAY—

- 12:30 to 1:45 p. m.—Hotel St. Catherine Orchestra.
- 6:30 to 8:00 p. m.—Hotel St. Catherine Orchestra.

SUNDAYS
 5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.
 6:00 to 6:30 p. m.—Riviera Theatre Organ.
 8:15 to 9:15 p. m.—St. Catherine Lobby concert.

MONDAYS
 Silent.

TUESDAYS
 5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.
 6:00 to 6:30 p. m.—Riviera Theatre Organ.
FRIDAYS
 5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.
 6:00 to 6:30 p. m.—Riviera Theatre Organ.

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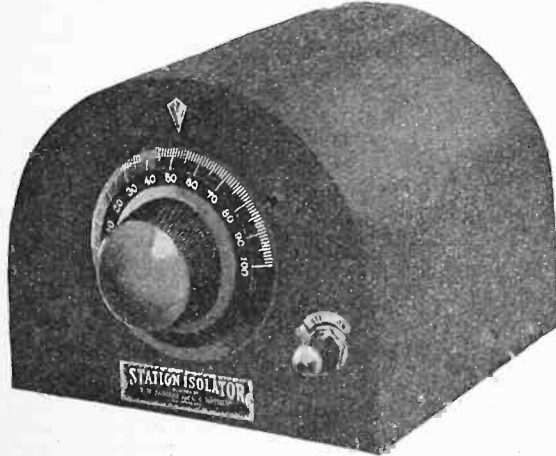
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DAILY EXCEPT SUNDAY—

10:00 to 11:00 a. m.—Amy Lou shopping hour.
12:30 to 1:30 p. m.—Carr Bros. Plata Real Orchestra.
5:45 to 6:00 p. m.—Late news items, sporting events by San Diego Union and Tribune.
6:00 to 7:00 p. m.—Musical Review.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

MONDAY, DECEMBER 19

7:00 to 8:00 p. m.—Bosch Radio Orchestra.
8:00 to 9:00 p. m.—Studio Program.
9:00 to 10:00 p. m.—San Diego Union and Evening Tribune Musical Program.
10:00 to 11:00 p. m.—Carr Bros. Plata Real Orchestra.

TUESDAY, DECEMBER 20

7:00 to 8:00 p. m.—All-Star Five Orchestra, Gene Merritt, tenor.
8:00 to 9:00 p. m.—Thearle's classical orthophonic.
9:00 to 10:00 p. m.—Studio artists' hour.
10:00 to 11:00 p. m.—Carr Bros. Plata Real Orchestra.

WEDNESDAY, DECEMBER 21

7:00 to 7:30 p. m.—Theadora Warfield, Doris Ridgway.
7:30 to 8:30 p. m.—Concert program, Theosophical Society.
8:30 to 9:00 p. m.—Orthophonic Pipe Organ Recital.
9:00 to 10:00 p. m.—Aeolian Quartette.
10:00 to 11:00 p. m.—Ratcliff Academy of Dancing.
11:00 to 12:00 p. m.—Carr Bros. Plata Real Orchestra.

THURSDAY, DECEMBER 22

7:00 to 8:00 p. m.—San Diego Police Department program.
8:00 to 9:00 p. m.—Unitarian Church concert.

9:00 to 10:00 p. m.—Ratcliff Academy of Dancing.
10:00 to 11:00 p. m.—Carr Bros. Plata Real Orchestra.

FRIDAY, DECEMBER 23

7:00 to 7:30 p. m.—Madame Zelma.
7:30 to 8:00 p. m.—Studio Program.
8:00 to 8:30 p. m.—Minor Twins, Stubbs Brothers.
8:30 to 10:00 p. m.—Hutton's Hotel Del Coronado Concert, Quartette.
10:00 to 11:00 p. m.—Carr Bros. Plata Real Orchestra.

SATURDAY, DECEMBER 24

7:00 to 8:00 p. m.—San Diego High School Program.
8:00 to 9:00 p. m.—Franco-American Hour.
9:00 to 10:00 p. m.—Studio Program.
10:00 to 11:00 p. m.—Ratcliff Academy of Dancing.
11:00 to 12:00 p. m.—Carr Bros. Plata Real Orchestra.

SUNDAY, DECEMBER 25

11:15 to 12:15 a. m.—Services First Unitarian Church.
2:00 to 3:00 p. m.—Services International Bible Students.
3:00 to 4:00 p. m.—Services Theosophical Society.
8:30 to 10:00 p. m.—Concert Program, featuring Hutton's Hotel del Coronado Concert Quartette and assisting artists.



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DAILY EXCEPT SUNDAY—

9:30 to Noon—Music and Trade Winds.
4:30 to 6:00 p. m.—Music and Trade Winds.
9:00 to 10:00 p. m.—Studio program.
10:00 to 12:00 p. m.—Mann Bros. and Singing Syncopators from Venice Ballroom.

WEEK COMMENCING MONDAY, DECEMBER 19, 1927

MONDAY, DECEMBER 19

9:00 to 10:00 p. m.—Sebastian Night Club Orchestra: Estelle Kendig, soprano; Abbott and Allen.

TUESDAY, DECEMBER 20

9:00 to 10:00 p. m.—Morrias Lensky, Russian baritone; Dr. Edward Delevanti, pianist; Mme. Tessie Weiss, soprano; Ansley Graham, tenor; Lawrence Maurette, baritone; Willy Alexander, mezzo soprano.

WEDNESDAY, DECEMBER 24

9:00 to 10:00 p. m.—Thirty minutes with Geo. There; Hal Denny and his DeLuxe Orchestra; Catherine Williamson, contralto.

THURSDAY, DECEMBER 22

9:00 to 10:00 p. m.—Ed Abbott and Ben Allen; Clara Stoerckel, contralto;

FRIDAY, DECEMBER 23

9:00 to 10:00 p. m.—Cecile Lauraine, soprano; Wilfred Cole, tenor; Rufus Wright, baritone; Margery Wright, pianist; Gladys Dorcy, soprano; Jennilyn Hart, contralto;

SATURDAY, DECEMBER 24

9:00 to 10:00 p. m.—Dorothy Berry, contralto; Frank Morales and Eddie Mills;

SUNDAY, DECEMBER 25

6:00 to 12:00 p. m.—Mann Bros. and Singing Syncopators from Venice Ballroom.

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Announcer

DAILY—

4:30 to 7:00 p. m.—Piggly Wiggly Concert Orchestra and Entertainers.

DAILY EXCEPT SATURDAY AND SUNDAY—

9:30 to 10:00 a. m.—Organ Recital, Second Church of Christ, Scientist.

10:15 to 10:30 a. m.—Devotional period.

10:30 to 11:30 a. m.—Physiology of Beauty, Georgia O. George.

DAILY EXCEPT SUNDAY—

11:30 a. m. to 12:00 noon—Press-Telegram Early News, by Frank Goss.

12:00 noon—Lost and Found Announcements.

4:00 to 4:30 p. m.—Press-Telegram Late News, by Frank Goss.

DAILY EXCEPT MONDAY—

2:30 to 4:00 p. m.—Long Beach Municipal Band Concert.

8:00 to 9:00 p. m.—Press-Telegram, presenting Long Beach Municipal Band.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

9:30 to 11:00 a. m.—Capitol Theatre organ.

11:00 to 12:30 p. m.—Church of Christ, Rev. Ernest Beam.

12:30 to 1:30 p. m.—Birkel Music Co.

1:30 to 2:30 p. m.—Pacific Coast Club

4:00 to 4:30 p. m.—Studio program.

7:00 to 7:45 p. m.—Barkey's Mandolin Orchestra and "The Eskimo Twins."

7:45 to 9:00 p. m.—Services First Church of Christ, Scientist.

9:00 to 12:00 M.—"Piggly Wiggly All-Star

MONDAY, DECEMBER 19

10:00 to 10:15 a. m.—"Shopping News"

12:0 to 12:30 p. m.—Moore's Apparel Shop.

12:30 to 1:00 p. m.—Eastman Furniture Co.

1:00 to 1:30 p. m.—Harris Fur Co.,

1:30 to 2:00 p. m.—Capitol Theatre Organ.

2:00 to 2:30 p. m.—Rialto Radio Company.

2:30 to 3:00 p. m.—Capitol Theatre Organ.

3:00 to 4:00 p. m.—Women's Music Study

7:00 to 8:00 p. m.—Suydam's Buttercream

8:00 to 9:30 p. m.—Truck Tire Service Co.

9:00 to 12:00 M.—Kiwanis Frolic.

TUESDAY, DECEMBER 20

10:00 to 10:15 a. m.—Piano Recital

12:00 to 12:30 p. m.—Hawaiian Program.

12:30 to 1:00 p. m.—Georgia O. George.

1:00 to 1:30 p. m.—Kiwanis Club Luncheon.

1:30 to 2:00 p. m.—Harrison's Shoe Store.

2:00 to 2:30 p. m.—Capitol Theatre Organ.

6:45 to 7:00 p. m.—Talk on Health,

7:00 to 8:00 p. m.—Bear Cafe Jazz Band.

9:00 to 10:00 p. m.—"Ye Olde Song Album"

10:00 to 11:00 p. m.—Majestic Ballroom

1:00 to 12:00 M.—Pacific Coast Club organ.

WEDNESDAY, DECEMBER 21

10:00 to 10:15 a. m.—"Shopping News"

12:00 to 12:30 p. m.—Moore's Apparel Shop.

12:30 to 1:00 p. m.—Eastman Furniture Co.

1:00 to 1:30 p. m.—Rotary Club Luncheon.

1:30 to 2:00 p. m.—Harris Fur Co.,

2:00 to 2:30 p. m.—Rialto Radio Company.

7:00 to 8:00 p. m.—Imperial Trio.

9:00 to 10:00 p. m.—"Piggly Wiggly Snap-
py Hour."

10:00 to 11:00 p. m.—Bible Institute of L. A.

11:00 to 12:00 p. m.—Pacific Coast Club.

THURSDAY, DECEMBER 22

10:00 to 10:15 a. m.—Piano Recital,

12:00 to 12:30 p. m.—Hawaiian Program.

12:30 to 1:00 p. m.—Georgia O. George.

1:00 to 1:30 p. m.—Studio Program.

1:30 to 2:00 p. m.—Harrison's Shoe Store.

2:00 to 2:30 p. m.—Health and Efficiency,

7:00 to 8:00 p. m.—Old-Time Barn Dance.

9:00 to 10:00 p. m.—Masterpiece program.

10:00 to 11:00 p. m.—Majestic Ballroom Or-
chestra.

11:00 to 12:00 M.—Pacific Coast Club Organ

FRIDAY, DECEMBER 23

10:00 to 10:15 a. m.—"Shopping News"

12:00 to 12:30 p. m.—Moore's Apparel Shop

12:30 to 1:00 p. m.—Eastman Furniture Co.

1:00 to 1:30 p. m.—Masonic Club luncheon

1:30 to 2:00 p. m.—Rich's Quality Bakery

2:00 to 2:30 p. m.—Rialto Radio Company

7:00 to 7:30 p. m.—Church of Christ,

7:30 to 8:00 p. m.—Georgia O. George.

9:00 to 10:00 p. m.—"Ye Olde Song Album."

10:00 to 11:00 p. m.—Capitol Theatre Organ

11:00 to 12:00 M.—Pacific Coast Club Orch.

SATURDAY, DECEMBER 24

9:30 to 10:00 a. m.—Studio Program.

10:00 to 10:30 a. m.—Cloverleaf Chocolate
Shop

10:30 to 11:30 a. m.—Capitol Theatre Organ.

12:00 to 12:30 p. m.—Hawaiian Program.

12:30 to 1:00 p. m.—Georgia O. George.

1:00 to 1:30 p. m.—Harrison's Shoe Store.

1:30 to 2:30 p. m.—Imperial Trio.

7:00 to 8:00 p. m.—Piggly Wiggly Hawaiian
Trio.

9:00 to 10:00 p. m.—Pacific Coast Club

10:00 to 11:00 p. m.—Masterpiece program.

11:00 to 12:00 M.—Majestic Ballroom Orch.

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"The Voice of San Francisco"

DAILY EXCEPT SUNDAY—

- 6:45 to 9:00 a. m.—Health and Happiness Period.
10:30 to 10:45 a. m.—"Ye Towne Crier."
11:30 to 1:00 p. m.—Kane's Hawaiians.
12:00 noon—Time Signals.
1:15 p. m.—Stock and Fruit Reports, except Friday.
1:00 to 2:00 p. m.—KPO Orchestra, except Friday.
4:00 to 5:00 p. m.—KPO Orchestra, except Mon., Wed., and Fri.
5:00 to 6:00 p. m.—Children's Hour.
6:00 to 6:30 p. m.—"Ye Towne Crier."
6:30 to 7:30 p. m.—Musical Program.
7:30 to 8:00 p. m.—DX period.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 9:45 to 10:45 a. m.—Undenominational and non-sectarian church services.
6:00 to 6:30 p. m.—States Restaurant Orchestra.
6:30 to 7:30 p. m.—Standard Symphony Orchestra.
7:30 to 8:30 p. m.—Organ recital by Uda Waldop.
8:30 to 10:00 p. m.—Rudy Seiger's Fairmont Hotel Concert Orchestra.

MONDAY, DECEMBER 19

- 4:00 to 5:00 p. m.—Nurok Trio and Eva de Vol.
7:00 to 7:10 p. m.—Book review by Harold Small of The Chronicle.
8:00 to 9:00 p. m.—Program by N. B. C. over P. C. N.
9:00 to 10:00 p. m.—Program for San Francisco branch of manufacturers of Mission Bell and White King Soaps
10:00 to 12:00 midnight—KPO's Variety Hour.

TUESDAY, DECEMBER 20

- 10:00 to 10:30 a. m.—Activity conducted by Ann Warner.
8:00 to 8:30 p. m.—Gypsy and Marta, harmony team.
8:30 to 9:00 p. m.—Bridge Lesson No. 8.
9:00 to 11:00 p. m.—N. B. C. program over P. C. N.

WEDNESDAY, DECEMBER 21

- 10:45 a. m.—Betty Crocker's Gold Medal Flour Home Service talk.
4:00 to 5:00 p. m.—Nurok Trio.
8:00 to 9:00 p. m.—Program by the Atwater Kent Artists.

- 9:00 to 0:00 p. m.—Abas String Quartet,
10:00 to 11:00 p. m.—States Restaurant Quartet.

THURSDAY, DECEMBER 22

- 10:00 to 10:30 a. m.—Activity, conducted by Ann Warner, domestic economist.
7:00 to 7:15 p. m.—Art talk by Helen Gordon Barker.
7:15 to 7:30 p. m.—Sports-on-the-Air by Harry Smith, sporting editor of The Chronicle.
8:00 to 9:00 p. m.—Caswell Hour.
9:00 to 10:00 p. m.—N. B. C. program over P. C. N.
10:00 to 11:00 p. m.—States Restaurant Quartet

FRIDAY, DECEMBER 23

- 10:45 a. m.—Betty Crocker's Gold Medal Flour Home Service talk.
11:00 a. m.—Fashion talk by Ninon, fashion critic of The Chronicle.
12:45 p. m.—Address from the Commonwealth Club luncheon at the Palace Hotel.
1:30 to 2:00 p. m.—KPO Concert Orchestra.
4:00 to 5:00 p. m.—Nurok Trio.
8:00 to 9:00 p. m.—N. B. C. program.
9:00 to 10:00 p. m.—Studio program.
10:00 to 11:00 p. m.—KPO Dance Orchestra.

SATURDAY, DECEMBER 24

- 10:00 to 10:30 a. m.—Activity conducted by Ann Warner, domestic economist.
7:30 to 8:00 p. m.—DX.
8:00 p. m. to 12:00 midnight — Program by N. B. C.

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DAILY EXCEPT SUNDAY—

- 11:30 a. m. to 1:00 p. m.—Luncheon concert.
12:30 to 7:00 p. m.—Stock and weather reports. Baseball scores, except Wednesday.
6:00 to 6:45 p. m.—Dinner hour concert (except Wednesday).
9:00 p. m.—Time Signals.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 11:00 a. m.—First Congregational Church.
4:00 p. m.—Vesper service, Grace Cathedral.
6:30 to 7:30 p. m.—Standard symphony hour.
7:30 p. m.—Weather report.
7:35 to 9:00 p. m.—First Cong. Church.
9:00 p. m.—Time signal.
9:00 to 10:00 p. m.—"Great Moments of History," N. B. C.

MONDAY, DECEMBER 19

- 3:30 to 4:00 p. m.—California Federation of Women's Clubs.
4:00 to 5:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.
5:30 to 6:00 p. m.—Aunt Betty stories and KGO Kiddies' Klub.
8:00 to 9:00 p. m.—Spotlight Hour, N. B. C.

- 9:00 to 9:15 p. m.—Joseph Henry Jackson, "A Chat About New Books."
9:15 to 10:15 p. m.—"The Pilgrims."

TUESDAY, DECEMBER 20

- 8:00 to 8:30 p. m.—"Cathedral Echoes."
8:30 to 9:00 p. m.—U. S. Bridge Lessons.
9:00 to 10:00 p. m.—Eveready Hour.
10:00 to 11:00 p. m.—"Retold Tales," N.B.C.

WEDNESDAY, DECEMBER 21

- 6:00 to 6:30 p. m.—Kohler & Chase dinner concert.
6:35 to 7:30 p. m.—Farm program.
8:00 to 9:00 p. m.—Vaudeville.
9:00 to 10:00 p. m.—"The Vagabonds," N. B. C.
10:00 to 11:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

THURSDAY, DECEMBER 22

- 5:00 to 5:15 p. m.—"Mental Measurement," Dr. Virgil E. Dickson.
5:15 to 6:00 p. m.—George W. Ludlow, "Friend to Boys."
8:00 to 9:00 p. m.—KGO Players. Music, Rembrandt Trio.
9:00 to 10:00 p. m.—Miscellaneous musical program, N. B. C.
10:00 to 11:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

FRIDAY, DECEMBER 23

- 11:10 to 11:30 a. m.—Prudence Penny Home Making talk.
5:30 p. m.—Da-Ra-O, wise man from the Land-O-Health.
6:45 to 6:55 p. m.—"Weekly Financial Review," Fred Brandt.
8:00 to 9:00 p. m.—Western Artist Series concert; Madame Berthe Baret, French violinist; Eva Garcia, pianist, and the Carolers.
9:00 to 10:00 p. m.—"An Hour in Memory Lane," N. B. C.
10:00 to 11:00 p. m.—Girvin-Beale's Hotel Oakland Dance Orchestra.

SATURDAY, DECEMBER 24

- 7:00 to 7:15 p. m.—Weather and news.
8:00 to 9:00 p. m.—"RCA Radiotron Hour."
9:00 to 10:00 p. m.—"Philco Hour."
10:00 to 11:00 p. m.—N. B. C. program.
11:00 to 12:00 p. m.—Frank Ellis and his Hotel St. Francis Dance Orchestra.

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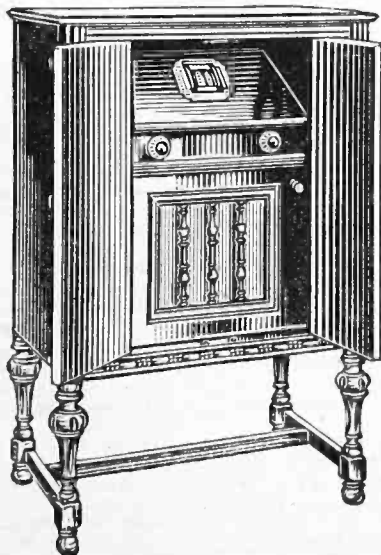


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DAILY EXCEPT SUNDAY—

- 7:00 to 8:00 a. m.—Seal Rock Program by Simpy Fitts.
- 8:00 to 9:00 a. m.—Musical Program.
- 10:00 to 11:00 a. m.—Musical Program, except Monday, Tuesday and Wednesday.
- 11:30 to 12:00 noon—Amateur Tryouts, except Saturday.
- 12:00 to 1:00 p. m.—Sherman Clay conret, except Friday.
- 4:30 to 5:30 p. m.—Organ Recital by Theodore Strong.
- 5:30 to 6:20 p. m.—Mac and his Gang, except Monday.
- 6:20 to 6:30 p. m.—Stage. Screen. Police and Lost and Found.
- 6:30 to 7:30 p. m.—Program by the Cecilians, except Mon., Tues. and Thurs.
- 10:00 to 12:00 p. m.—Program of Dance Music, ex. Mon. and Tues.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 10:00 to 12:00 noon—Golf Widow's Program.
- 12:00 to 1:00 p. m.—Services and Sermon from the Paulist Father's Old St. Mary's Church, Rev. Edward T. Mallon, pastor.
- 2:00 to 4:00 p. m.—Sunday matinee.
- 5:04 to 6:00 p. m.—Organ recital by Theodore Strong.
- 6:00 to 6:30 p. m.—Inspirational Talk.
- 6:30 to 7:45 p. m.—Hotel Mark Hopkins Concert Orchestra.
- 7:45 to 9:00 p. m.—Services from Old St. Mary's Church.
- 9:00 to 10:00 p. m.—Balconades Ballroom Orchestra.
- 10:00 to 12:00 p. m.—KFRC Dance Orchestra, Robert Olsen, tenor.

MONDAY, DECEMBER 19

- 9:00 to 9:10 a. m.—Weinstock-Lubin & Co., Shopping Service.
- 10:00 to 11:00 a. m.—Georgia O. George.
- 11:00 to 11:30 a. m.—Household Hints by Mary Lewis Haines of The Call.
- 5:15 to 5:45 p. m.—Mac and his Gang.
- 5:45 to 6:20 p. m.—Joe Mendel and his Pep Band from the Lido Cafe.
- 6:30 to 7:00 p. m.—Sports talk by "Bobs."
- 7:00 to 7:30 p. m.—The Hawaiians.
- 8:00 to 10:00 p. m.—Blue Monday Jamboree.

TUESDAY, DECEMBER 20

- 10:00 to 11:00 a. m.—Georgia O. George.
- 11:00 to 11:30 p. m.—Doings of Dorothy.
- 6:30 to 6:50 p. m.—The Cecilians.
- 6:50 to 7:00 p. m.—"Investment Securities," a talk by Agnes N. Alwyn.
- 7:00 to 7:30 p. m.—The Cecilians.
- 8:00 to 10:00 p. m.—KFRC Orchestra.

WEDNESDAY, DECEMBER 21

- 9:00 to 9:10 a. m.—Weinstock-Lubin & Co. Shopping Service.
- 10:00 to 11:00 a. m.—Georgia O. George.

- 11:00 to 11:30 p. m.—Household Hints by Mary Lewis Haines of The Call.
- 8:00 to 9:00 p. m.—Maxwell House Coffee Co. Orchestra in concert of Opera Selections.
- 9:00 to 10:00 p. m.—Program of Nationalistic Dance Music.

THURSDAY, DECEMBER 22

- 6:10 to 6:20 p. m.—Beauty Talk by Madame Marie.
- 6:30 to 7:00 p. m.—Sports talk by "Bobs."
- 7:00 to 7:30 p. m.—The Cecilians.
- 8:00 to 9:00 p. m.—Mona Motor Oil Company program, with Robert Olsen and Mona Motor Merrymakers.
- 9:00 to 9:45 p. m.—KFRC Movie Club, with Joe Benson, pianist.
- 9:45 to 10:00 p. m.—Flying Lessons by Lt. Blaine Stubblefield.

FRIDAY, DECEMBER 23

- 9:00 to 9:10 a. m.—Weinstock-Lubin & Co. Shopping Service.
- 11:00 to 11:30 a. m.—Hints to Home-makers by Aunt Martha.
- 4:00 to 4:30 p. m.—Student's Hour by the "Observer."
- 8:00 to 9:00 p. m.—Shell Oil Company Symphonists, directed by Lajos Fenster.
- 9:00 to 10:00 p. m.—KFRC Dance Orch.

SATURDAY, DECEMBER 24

- 11:00 to 11:45 a. m.—Amateur tryouts.
- 11:45 to 12:00 noon—Announcements of Sunday Church Sermons.
- 8:00 to 9:00 p. m.—"The First Christmas Story." Club.
- 9:00 to 10:00 p. m.—Walter Krausgrill's Dance Orchestra of the Balconades Ballroom.
- 12:00 to 1:00 p. m.—Christmas Eve services from Old St. Mary's Church.

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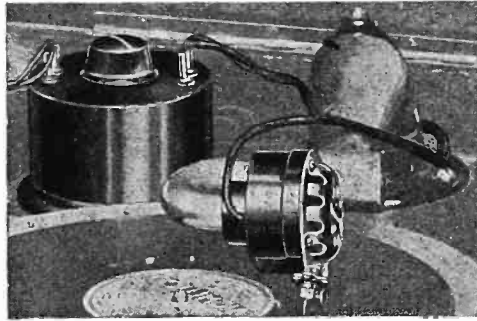
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Program Director

DAILY EXCEPT SUNDAY—

- 6:45 to 8:00 a. m.—Health and Good Cheer Hour.
- 8:30 to 9:00 a. m.—"The Hour of Prayer."
- 9:00 to 10:00 a. m.—The Town Tattler, except Mon. and Wed.
- 10:00 to 10:30 a. m.—Shopping Hour.
- 11:30 a. m. to 1:00 p. m.—Noonday concert.
- 4:00 to 5:00 p. m.—Uncle Charley, Aunt Belle, except Saturday.
- 5:30 to 6:45 p. m.—"Who's Who" hour.
- 6:45 to 7:30 p. m.—Shopping hour.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 9:45 to 10:45 a. m.—Prof. E. G. Linsley's Bible Class
- 11:00 a. m.—Services of Tenth Avenue Baptist Church.
- 1:30 to 2:30 p. m.—KTAB Symphonic Hour.
- 7:45 p. m.—Services of Tenth Avenue Baptist Church.

MONDAY, DECEMBER 19

- 1:00 to 1:20 p. m.—Dr. R. Bristol Bell, authority on Asthma.
- 2:00 p. m.—Special broadcast of The Calif. Teachers' Association Bay Section Institute.
- 8:00 to 10:00 p. m.—"The Weavers" present "Under Syrian Skies."

TUESDAY, DECEMBER 20

- 10:30 a. m.—Special broadcast of the Calif. Teachers' Association Bay Section Institute.
- 1:00 to 1:20 p. m.—Dr. J. D. Thompson on "Diet and Health."
- 8:30 p. m.—Broadcast of the annual Christmas concert of the Oakland Orpheus club.

WEDNESDAY, DECEMBER 21

- 10:30 a. m.—Special broadcast of the Calif. Teachers' Assn. Institute.
- 8:00 to 10:00 p. m.—California Crematorium program, presenting Trillium Trio.

THURSDAY, DECEMBER 22

- 1:00 to 2:20 p. m.—Dr. Thompson on "Diet and Health."
- 8:00 to 10:00 p. m.—Special Christmas Studio Program.

FRIDAY, DECEMBER 23

- 1:00 to 1:20 p. m.—Dr. R. Bristol Bell, authority on Asthma.
- 8:00 to 10:00 p. m.—KTAB Zooks.



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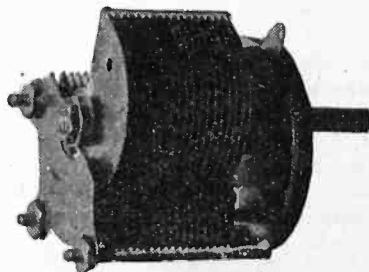
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DAILY EXCEPT SUNDAY—

- 7:00 to 8:00 a. m.—Health Exercises by Cal King, except Monday.
 8:00 to 10:27 a. m.—Musical Breakfast Program.
 10:27 to 10:30 a. m.—Weather Reports.
 12:00 to 1:00 p. m.—Baldwin Welte Concert (except Saturday).
 1:00 to 1:30 p. m.—Country Store (except Saturday).
 5:00 to 5:30 p. m.—Brunswick Concert.
 5:30 to 6:00 p. m.—Advance Construction Reports by Albert White.
 7:00 to 7:15 p. m.—Sports Review (except Saturday).
 10:00 to 10:03 p. m.—Police Reports (except Wednesday).

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

- 3:00 to 4:00 p. m.—Lecture on Christian Science from Civic Auditorium.
 7:50 to 9:00 p. m.—Services from Eight Church of Christ, Scientist.
 9:00 to 9:30 p. m.—Laura Ellen Winsor, pianist, and associate artists.
 9:30 to 9:35 p. m.—"Early Mailing," by Postmaster H. L. Todd.
 9:35 to 10:00 p. m.—Classical Program.
 10:00 to 11:00 p. m.—Tom Gerunovich's Roof Garden Orchestra.

MONDAY, DECEMBER 19

- 10:30 to 11:00 p. m.—Florence B. Hawkins, "Interior Decorating."
 6:00 to 7:00 p. m.—Dinner Concert.
 7:15 to 7:30 p. m.—Advertising talk by Elliot Epsteen.
 8:00 to 8:30 p. m.—Darneille Sisters.
 8:30 to 9:00 p. m.—Suzanne Cole, violinist; Glenhall Taylor, pianist.
 9:00 to 10:00 p. m.—Tom Gerunovich and his Weird Jungle Jazz from Jungle Town.
 10:03 to 11:00 p. m.—Gloria Del Rae; Andy Wallace and his Band.

TUESDAY, DECEMBER 20

- 6:00 to 7:00 p. m.—California Songbird
 7:15 to 7:30 p. m.—Columbia Outfitting Co.'s Art Course, by Hy McClary.
 8:00 to 8:30 p. m.—Studio Program.
 8:30 to 9:00 p. m.—Remember When—→
 9:00 to 9:30 p. m.—Program of Spanish and Mexican Music.
 9:30 to 10:00 p. m.—Zelma Randall and Glenhall Taylor in "Zel and the Boy Friend."
 10:03 to 11:00 p. m.—Program of Popular Music.

WEDNESDAY, DECEMBER 21

- 6:00 to 7:00 p. m.—Thelma Myrick, soprano; Dorothy Beiber, pianist.
 8:00 to 9:00 p. m.—Studio Program.
 9:00 to 9:05 p. m.—"Early Mailing," H. L. Todd.
 9:05 to 9:55 p. m.—Program of Popular Music.
 9:55 to 10:00 p. m.—Police Reports.
 10:00 to 11:00 p. m.—Tom Gerunovich's Roof Garden Orchestra.

THURSDAY, DECEMBER 22

- 6:00 to 7:00 p. m.—Dinner Hour Program, presented by Edgar L. Reinhold.
 7:15 to 7:30 p. m.—Hy McClary's Art Course.
 8:00 to 9:00 p. m.—Genevieve Chinn, the Sweetheart of the Air; Peggy MacDonald, pianist.
 9:00 to 9:30 p. m.—Studio Program.
 9:30 to 10:00 p. m.—Gloria Del Rae.
 10:03 to 11:00 p. m.—KFWI Gypsy Band;

FRIDAY, DECEMBER 23

- 6:00 to 7:00 p. m.—Program arranged by Irene Smith.
 7:15 to 7:30 p. m.—Columbia Outfitting Co.'s Art Course by Hy McClary.
 8:00 to 8:30 p. m.—Lillian Craig, soprano;
 8:30 to 9:00 p. m.—Studio Program.
 9:00 to 10:00 p. m.—Tom Gerunovich and his Weird Jungle Jazz from Jungle Town.
 10:03 to 11:00 p. m.—Program of Popular Music.

SATURDAY, DECEMBER 23

- 7:00 to 8:00 p. m.—Dinner Hour Program.
 8:00 to 9:00 p. m.—Christmas Eve Program;
 9:00 to 10:00 p. m.—Harriet Lewis, pianist,
 10:03 to 12:30 p. m.—KFWI Surprise Reception.

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- 10:00 to 11:30 a.m.—Martha Lee.
- 11:30 a.m. to 1:00 p.m.—Luncheon concert.
- 1:00 to 1:30 p.m.—Correia and Kelly, except Saturday.
- 5:30 to 6:30 p.m.—Brother Bob Club; Boy Scout program, except Saturday.
- 6:30 to 7:00 p.m.—Dinner Concert, courtesy of Geo. Campe Co., except Saturday.
- 7:00 to 7:30 p.m.—Amusement information and news

WEEK COMMENCING MONDAY, DECEMBER 19, 1927

MONDAY, DECEMBER 19

- 8:00 to 9:00 p.m.—Roy Dyer's El Nido cafe orchestra
- 9:00 to 10:00 p.m.—Weekly meeting of Lake Merritt Ducks.

TUESDAY, DECEMBER 20

- 8:00 to 10:00 p.m.—Dance program.

WEDNESDAY, DECEMBER 21

- 8:00 to 9:00 p.m.—Educational program.
- 9:00 to 10:00 p.m.—Old timers' night.

THURSDAY, DECEMBER 22

- 4:30 to 5:30 p.m.—Ira Powell's Hawaiians.
- 8:00 to 10:00 p.m.—Dance program.

FRIDAY, DECEMBER 23

- 4:30 to 5:30 p.m.—Ira Powell's Hawaiians.
- 8:00 to 9:00 p.m.—Opera hour.
- 9:00 to 10:00 p.m.—Athens Athletic Club Orchestra.

SATURDAY, DECEMBER 24

- 7:00 to 7:30 p.m.—News broadcast.

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"Keep Growing Wiser"

DAILY EXCEPT SUNDAY—

10:00 to 11:30 a. m.—Town Crier, weather reports, news items.
6:00 to 7:00 p. m.—Dinner Concert, except Friday.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18
8:30 to 9:15 a. m.—"Aunt Blossom" reading the Sunday comic strips.
11:00 to 12:00 p. m. noon—Morning services, Hinson Memorial Baptist Church.
3:00 to 4:00 p. m.—Concert by Town Crier Orchestra.
4:00 to 5:00 p. m.—Concert.
5:00 to 5:30 p. m.—Concert, courtesy of Levin Furnace Co.
5:30 to 6:30 p. m.—Mixed Quartet and Salon Orchestra.
6:30 to 7:30 p. m.—Standard Oil program over P. C. N.
7:30 to 8:00 p. m.—The two Steinway Artists.
8:00 to 9:00 p. m.—"Neighborhood Drug Store Hour."
9:00 p. m.—Longine time signals from N. B. C.
9:00 10:00 p. m.—Great Moments of History (N. B. C.)
10:00 to 11:00 p. m.—Public Service Little Symphony Orchestra.

MONDAY, DECEMBER 19
7:15 to 7:30 p. m.—Y. M. C. A. Health Exercises.
7:00 to 7:30 p. m.—Salon Orchestra with singer.
7:30 to 7:45 p. m.—"Better Flowers" talk.
7:45 to 8:00 p. m.—"Travel Talk."
8:00 to 9:00 p. m.—P. C. N. program, "Spot Light Hour."
9:00 p. m.—Longine time signals (N. B. C.).
9:00 to 10:00 p. m.—Concert Orchestra and soloists.

TUESDAY, DECEMBER 20
7:00 to 7:30 p. m.—Christmas program.
7:30 to 7:45 p. m.—Thrift Talk.
7:45 to 8:00 p. m.—Book Chat.
8:00 to 8:30 p. m.—"Sealy Sam program."
8:30 to 9:00 p. m.—Bridge Games, courtesy of U. S. Playing Card Co., over P. C. N.
9:00 p. m.—Longine time signal.
9:00 to 10:00 p. m.—"Eveready Hour," courtesy National Carbon Co., N. B. C.
10:00 to 11:00 p. m.—N. B. C. Retold Tales.

WEDNESDAY, DECEMBER 21
7:15 to 7:30 a. m.—Y. M. C. Health Exercises.
7:30 to 7:45 p. m.—Utility Service.
7:45 to 8:00 p. m.—Catholic Truth Society lecture.
8:00 to 9:00 p. m.—Kite King Orchestra.
9:00 to 10:00 p. m.—P. C. N., "The Vagabonds."
10:00 to 11:00 p. m.—Silver King Revelers,

THURSDAY, DECEMBER 22
7:00 to 7:30 p. m.—Music.
7:30 to 7:40 p. m.—Utility Service.
7:40 to 8:00 p. m.—Tommy Luke's Flower Girls.
8:00 to 9:00 p. m.—Concert by Maxwell House Coffee Orch., with soloists.
9:00 to 10:00 p. m.—P. C. N. program.

FRIDAY, DECEMBER 23
7:15 to 7:30 a. m.—Y. M. C. A. Health Exercises.
6:00 to 7:00 p. m.—"Golden West Girl," presented by Manufacturers of Golden West Coffee.
7:00 to 7:30 p. m.—Concert.
7:30 to 7:45 p. m.—Utility Service.
8:00 to 9:00 p. m.—Shell 400 Magic Theatre Party, "Phantoms of Broadway."
9:00 to 10:00 p. m.—P. C. N. program, "Memory Lane."
10:00 to 10:30 p. m.—Motor Coach Entertainers.
10:30 to 12:00 p. m.—Frolic of the Keep Growing Wiser Order of Hoot Owls.

SATURDAY, DECEMBER 24
7:00 to 8:00 p. m.—Concert.
8:00 to 9:00 p. m.—N. B. C., R. C. A. program, grand opera
9:00 to 10:00 p. m.—"Philco Hour," over P. C. N.
10:00 to 11:00 p. m.—N. B. C., "Saturday Night Review."

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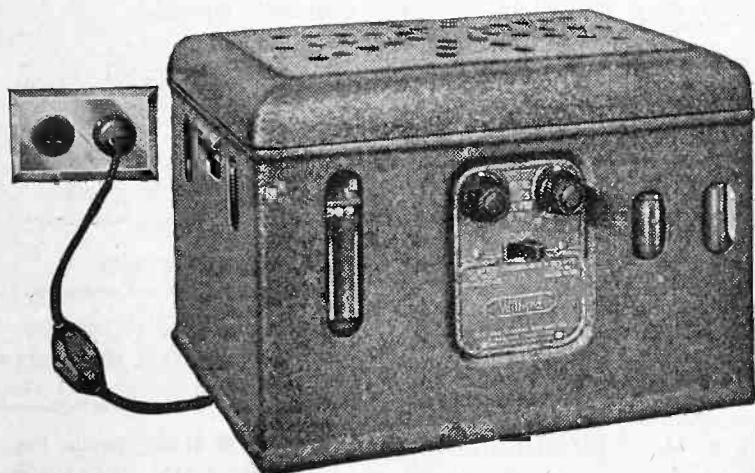
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DAILY EXCEPT SUNDAY AND SATURDAY—

- 9:00 to 9:45 a. m.—Mary Cooke, Economics Department.
 9:45 to 10:00 a. m.—Devotional service.
 10:00 a. m. to 12:00 noon—Shopping service and music.
 12:00 noon.—Time Signals.
 12:00 to 12:30 p. m.—Musical program.
 12:30 to 1:30 p. m.—Luncheon Club program from New Wash-
 ington Hotel, except Monday and Friday.
 1:30 to 4:45 p. m.—Studio program.
 4:45 to 5:00 p. m.—Chats by Dr. E. A. Schilling (except Friday).
 5:00 to 5:30 p. m.—KJR Junior Club.
 5:30 to 5:45 p. m.—Studio program.
 5:45 to 6:00 p. m.—New York Stock Quotations.
 6:00 p. m.—Time Signals.
 6:00 to 6:30 p. m.—News and amusement notices.
 6:30 to 7:30 p. m.—Dinner hour concert.
 10:00 p. m.—Time Signals.
 10:00 to 12:00 p. m.—Vic Meyers' dance orchestra.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927**SUNDAY, DECEMBER 18**

- 9:00 to 10:00 a. m.—Sacred Concert.
 10:00 to 11:00 p. m.—International Bible Stu-
 dents' Association.
 11:00 to 12:30 p. m.—Morning Service of
 First M. E. Church; Rev. J. Ralph Magee.
 12:30 to 6:15 p. m.—Studio Program.
 6:15 to 7:15 p. m.—International Bible Stu-
 dents' Association.
 7:15 to 7:30 p. m.—Twilight Organ Recital.
 7:30 to 9:00 p. m.—Evening Service of First
 M. E. Church; Rev. J. Ralph Magee.
 9:00 to 10:30 p. m.—Concert Orchestra.
 10:30 to 12:30 a. m.—Helen Ardelle's Goofy
 Birds.

MONDAY, DECEMBER 19

- 12:00 to 4:45 p. m.—Studio program.
 7:30 to 8:00 p. m.—Organ Recital with Ar-
 thur Biggs.
 8:00 to 9:00 p. m.—Seattle Pacific College.
 9:00 to 10:00 p. m.—Kola Levienne Trio.

TUESDAY, DECEMBER 20

- 7:30 to 8:00 p. m.—Studio Program.

- 8:00 to 9:00 p. m.—Lundquist-Lilly Two-
 Pant Twins.
 9:00 to 10:00 p. m.—KJR Vodvil Program.

WEDNESDAY, DECEMBER 21

- 7:30 to 8:30 p. m.—Concert Orchestra.
 8:30 to 9:00 p. m.—Casey-Bowyer Knight-
 en-gales.
 9:00 to 10:00 p. m.—Studio Program.

THURSDAY, DECEMBER 22

- 7:30 to 8:30 p. m.—"Fireside Program" fea-
 turing Bab's Orchestra.
 8:30 to 10:00 p. m.—ABC Chain from KEX
 Portland, KJR Seattle, KGA Spokane, fea-
 turing Operatic Stars.

FRIDAY, DECEMBER 23

- 12:00 to 4:45 p. m.—Studio Program.
 4:45 to 5:00 p. m.—Musical Program.
 7:30 to 8:00 p. m.—Seattle Old-Time Dance
 Orchestra.
 8:00 to 9:00 p. m.—Woodlawn Flower Shop
 Trio.

SATURDAY, DECEMBER 24

- 12:00 to 4:45 p. m.—Studio program.
 4:45 to 5:00 p. m.—Studio program.

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Announcer

Seattle, Washington—670 Kc.

KFOA

447.5 Meters—1000 Watts
Owned and Operated by Rhodes Department Store
Arcade Square Seattle, Washington
Phone MAin 8000

P. B. GALE, Station Manager
ARTHUR W. LINDSAY, Program Director and
Announcer

DAILY EXCEPT SUNDAY—

10:00 to 10:30 a. m.—Rhodes' Air News except Tues., Thurs., Sat.
1:30 to 2:00 p. m.—Home-making Helps, by Margaret Knowles,
except Thursday and Saturday.
4:30 to 5:00 p. m.—News items.
5:00 to 6:00 p. m.—Children's Hour by Big Brother of KFOA, ex-
cept Saturday.
6:00 to 6:30 p. m.—Sperry Flour Children's Hour, except Saturday.
9:00 p. m.—Longine Time Signals.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

6:30 to 7:30 p. m.—Standard Symphony Hour
over P. C. T.

MONDAY, DECEMBER 19

6:30 to 7:15 p. m.—Studio program.
7:15 to 7:30 p. m.—Industrial news.
7:30 to 8:00 p. m.—Sunde & d'Evers Popular
vocal trio "Under the Awning."
8:00 to 9:00 p. m.—N. B. C. Spotlight Hour.
10:30 to 12:00 p. m.—Coyotes Frolic from
KHQ, Spokane.

TUESDAY, DECEMBER 20

12:30 to 1:30 p. m.—Seattle Kiwanis Club.
luncheon program from the Olympic Hotel.
6:30 to 7:30 p. m.—Doc Proelss.
7:30 to 8:00 p. m.—KFOA Radio Movie Club.
8:15 to 8:30 p. m.—Pantages Theatre fea-
ture act.
8:30 to 9:00 p. m.—Bridge Game by the U. S.
Playing Card Co. over P. C. N.
9:00 to 10:00 p. m.—Eveready Hour by Na-
tional Carbon Co. over P. C. N.

WEDNESDAY, DECEMBER 21

10:00 to 11:00 p. m.—N. B. C. program
12:30 to 1:30 p. m.—Seattle Rotary Club
luncheon program.
7:30 to 7:45 p. m.—Albers Bros.' Poultry
Talk to KGW.
7:45 to 8:00 p. m.—Book Chat by Helmer L.
Webb.
8:00 to 9:00 p. m.—White King Concert Or-
chestra and soloists.
9:00 to 10:00 p. m.—N. B. C. program.
10:00 to 11:00 p. m.—Silver King Revelers
from KGW.

THURSDAY, DECEMBER 22

12:30 to 1:30 p. m.—Shrine Club luncheon
program.
6:30 to 7:30 p. m.—E. B. Butterworth & Sons
Concert Orchestra.
8:00 to 9:00 p. m.—Studio program.
9:00 to 10:00 p. m.—Maxwell House Coffee
Orchestra and soloists.

FRIDAY, DECEMBER 23

12:30 to 1:30 p. m.—Members Council lunch-
eon program.
6:45 to 7:00 p. m.—Touring information by
Auto Club of Wash.
7:00 to 8:00 p. m.—Sherman Clay & Co. Con-
cert Orchestra.
8:00 to 9:00 p. m.—Crescent Old Time Trio.
9:00 to 10:00 p. m.—An Hour in Memory
Lane, over P. C. N.
10:00 to 10:30 p. m.—Shiftless Sam and Pe-
tunia the Scrub Woman.
10:30 to 12:00 p. m.—Hoot Owls from KGW,
Portland.

SATURDAY, DECEMBER 24

6:55 to 6:15 p. m.—Sport review.
7:00 to 7:30 p. m.—Boy Scout program.
7:30 to 8:00 p. m.—Camp Fire Girls' pro-
gram.
8:00 to 9:00 p. m.—N. B. C. R. C. A. Rido-
tron Hour.
9:00 to 10:00 p. m.—Philco Hour over P. C. N.
10:00 to 11:00 p. m.—Popular dance program
over P. C. N.

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20' Speaker Cables.....	.45
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201A Tube (guaranteed).....	1.00
199 Tubes.....	1.25
112 Tubes.....	2.35
171 Power Tubes.....	2.35
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Radio Tables.....	13.95
120-amp. "A" Battery.....	6.95
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3 Circuit Tuners.....	1.45
7x18 Rubber Panels.....	1.18
7x14 Mah. Cabinets.....	2.50
Hydrometers.....	.39
Dry Cells.....	3 for 1.00
Browning-Drake Coils.....	3.50
Transformers, 6x1, 3x1.....	1.00
UX Sockets.....	.20
Signal Condensers, 17 or 23 plate.....	.85
T.R.F. Coils, each.....	.65
Walbert Switches.....	.10
Goodrich Sockets.....	.05
Harkness Coils.....	1.00
100' Coil Wire.....	.29

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\$69.75

Famous MacMillan 5-tube Console. Genuine Eastern hardwood cabinet that we are closing out at the sensation price of \$69.75. Fully equipped. Look over the bargains of the city—you will come back and buy this job—regular lists at \$185.00. Customers are getting Chicago, Pittsburgh, etc., every night. Consistent performer—marvelous tone—an ideal Xmas gift—sold as low as \$14.75 down, balance \$8.85 month—to reliable people.

NOTICE

The merchandise listed in this add is all standard, sold with money-back if not satisfied guarantee. If you want further information on any item write—everything shipped promptly—remember our policy, "Airplane Quality at Submarine Price." Open evenings to 10 and Sunday afternoons.

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KOA

500 WATTS—326 METERS
GENERAL ELECTRIC COMPANY
Pacific Standard Time
"Rocky Mountain Broadcasting Station"



FREEMAN H. TALBOT
Announcer

DAILY EXCEPT SUNDAY—

- 10:45 a. m.—Weather, Stock and Produce Reports.
- 11:00 a. m.—Time Signals.
- 11:05 to 12:05 p. m.—Organ Recital
- 5:00 p. m.—Stock and Market Reports (except Thursday and Saturday).
- 5:25 p. m.—Road Reports (except Thursday and Saturday).
- 5:30 to 6:30 p. m.—Dinner Concert, except Thursday and Saturday.

WEEK COMMENCING SUNDAY, DECEMBER 18, 1927

SUNDAY, DECEMBER 18

- 10:00 a. m.—Service of Central Presbyterian Church, Denver.
- 4:30 p. m.—Organ recital
- 5:30 to 6:30 p. m.—Brown Palace Hotel dinner concert.
- 6:45 p. m.—Service of Central Presbyterian Church, Denver.

MONDAY, DECEMBER 19

- 10:15 a. m.—Program by Reese School of Saxophone, Banjo and Piano.
- 6:30 p. m.—Appreciation program.
- 7:00 p. m.—Instrumental program
- 7:15 to 9:00 p. m.—MacDowell compositions in commemoration of the anniversary of the composer's birth.

TUESDAY, DECEMBER 20

- 2:30 to 3:30 p. m.—Housewives' matinee.
- 3:30 to 3:45 p. m.—Culinary hints, Mrs. Helen Harrington Downing.
- 3:45 to 4:00 p. m.—Shopping with Betty Dee
- 6:30 p. m.—Farm question box.
- 7:30 p. m.—Radio instruction in auction bridge.

- 7:30 to 8:30 p. m.—Dance program.

WEDNESDAY, DECEMBER 21

- 6:30 p. m.—"Tell Me a Story" hour.
- 7:00 to 7:15 p. m.—Instrumental program.

THURSDAY, DECEMBER 22

- 2:30 to 3:00 p. m.—Rural Schools, State Department of Public Instruction.
- 3:00 to 3:30 p. m.—Housewives matinee.
- 3:30 to 3:45 p. m.—Shopping with Betty Dee of the Denver Dry Goods Co.
- 4:00 p. m.—Stocks, markets, livestock.
- 4:25 p. m.—Road Reports.

FRIDAY, DECEMBER 23

- 2:30 to 3:30 p. m.—Housewives matinee.
- 3:30 to 3:45 p. m.—Culinary hints, Mrs. Helen Harrington Downing.
- 3:45 to 4:00 p. m.—Shopping with Betty Dee
- 6:00 p. m.—"Aggie Kickoffs."
- 7:00 to 9:00 p. m.—Christmas program.
- 9:00 to 10:00 p. m.—Dance program.

SATURDAY, DECEMBER 24

- 11:00 1/4 a. m.—Road Reports.
- 8:00 to 10:00 p. m.—Dance program.

A Christmas Gift

That Will Be Appreciated by All the Family

"IN THE SHADOWS"
By Detective Nick Harris

30 gripping detective stories that will fascinate and entertain the entire family



GOOD DETECTIVE STORIES INTEREST EVERYONE

You have heard Nick Harris on KFI telling his intensely thrilling stories of famous criminal cases. "In the Shadows" will thrill you.

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Enclosed find \$2.00 for Special Autographed Copy of "In the Shadows." Mail immediately to

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Plenty of volume without distortion, both local and distance. Selective to the Nth degree.

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Enjoy Those Christmas Carols With a Gosilco Aerial

Let Your Xmas Remembrance Be a Gosilco
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The Enduring Gift

You Are Not Hearing Your Set at Its Best Without This Super Wire
DX LOGS GROW WHEN A GOSILCO GOES UP

SILVER THE KING

24 Kt Gold
Pure Silver
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Copper

Gosilco Super Aerial Wire Gold over Silver on Copper

Greatly Increased DX Range, 35% More Volume—Clearer Tone—25%
Sharper Tuning—Non-Corrosive, Lacquered to Retain Brilliancy. En-
dorsed by Major Mott, Ormiston, Best, Cockaday, Garver of KNX. A
permanent investment. No. 14, 100 ft., \$4.00; 75, \$3.25; 50, \$2.50.

If Dealer is out, order direct.

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Let's All Have Lunch with Becky



Miss Becky Evans, attractive film star, is an ardent Stewart-Warner booster. Her favorite model is the 525 table model, which, with the model 425 S-W Organ Voiced Reproducer, makes a splendid and inexpensive installation of noteworthy performance. As can be seen in the photograph, Miss Evans takes a great interest in her "home work," and wields a jazzy egg beater to music from her favorite Chicago station, WBBM, the Stewart-Warner Air Theatre.



Walter M. Fagan, President of the Pacific Wholesale, Inc., and the men who have been so successful this season in the merchandising of the Sparton A.C. Receivers.

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NO PROGRAMS TOO SMALL**

Phone WEStmore { **7777** for Information
 { **7593**

We will gladly send a representative at your convenience for any and all information.

DX Club (Continued)

(Continued from Page 32)

from a power-line and 1200 feet from an outdoor heavy-duty transformer.

I said mine was only half a set, because they tell me you haven't got a whole one without ten tubes. Really, though, it's just a 5-tube Western Air Patrol. Everyone here is so honest and truthful our old J. P. got discouraged and died, but I have them thar papers in the shape of verifications from the distant ones and all on the loud talker.

If this log floats, send my tubes to

Yours sincerely,

L. H. WILSON.

Luning, Nevada, Box 42.

DX Club:

Well, I am sure glad to see your DX Club back in the book. While I have never written you as to any DX I have had, I certainly want to this time. I have a real radio, and want your readers to know just what I am doing with it. I bought a Steinite Electric set about a month ago, and I live close to three Hollywood stations, none excepted. I have brought in PWX at Havana, KDKA, Pittsburgh; also WBBM, WLIB, KMOX, WGM, KWKH, KOA, KLZ, KSL, CNRV, WOAI, 3XN, WGY and, as I said before, all the stations on the Pacific Coast out here. I use a ground aerial. Remember, this is what I have done just the past month with this Steinite. As soon as I log some more stations I will give you my complete list, and I think it will make other set owners sit up and take notice. I would add that all these receptions are verified ones, too, and all on the loud speaker. I am surely strong for the Steinite and Radio Doings.

I would like to hear from other Steinite owners.

B. VOGELSANG,
737 N. Kilhea St.,
Los Angeles, Calif.

DX Club:

It's very hard to pull away from the old radio to break into your very interesting DX columns, but have had much wonderful luck, or what I consider luck on DX, the past week, with an old type Freshman Masterpiece 5-tube, using the ground as an aerial, and the aerial to the ground post on the set, have three wires up in the basement leading to the one main ground on the water pipe, all

running different directions coming into the main ground.

Since switching the aerial and ground last Tuesday night, here are the stations picked up on the loud speaker, WTAM, WLW, KMA, WBBM, WJBT, KWKH, WCCO, CFCN, CFAC, KMOX, KSL, KLZ, KFKB, WOC, CNRW, KGBU, besides all coast stations.

With the regular hook up of aerial and ground had very good luck, but more or less noise, but the present hook up does away with the noise, so guess will leave it, and get better DX.

Yours for a greater DX club.

Very truly yours,

H. M. BROWN,
851 East 64th No..

Portland, Oregon.

DX Club:

I sure am glad to see the DX Club going strong again. It is a good thing to see what the other fellows are doing. I am using a three-tube Crosley Tryedyn.

I have received in Chicago, WBBM, WLS, WEBH, WJAZ and WHT; in Cincinnati, WLW, and WSAI, KWKH, Shreveport, La.; KOB, State College, New Mexico; KSEI, Pocatello, Idaho; WSM, Nashville, Tenn.; KDKA, Pittsburgh, Pa.; WHO, Des Moines, Iowa; WWJ Detroit, Mich.; CFCN, Calgary, Canada; CFYC, Burnaby, B. C., and CKWX, Vancouver, B. C., which is a fifty-watt station. I have not mentioned all the stations in the western states.

Yours for better DX,

WAYNE LENZ,
Box 639, Rt. 1,
San Jose, Calif.

Q. and A.

(Continued from Page 34)

approach the oscillation point simultaneously. These things make for selectivity. A couple of years ago, the set designers were not as wise as they are now, and also the selectivity question was not so important. Would suggest that unless you would find a lot of pleasure in building the thing over into a modern RF set, that you shield it to keep KGW and KOIN from getting into the set through the back door (coil pickup), and then, if necessary, put a selective RF stage ahead of the set.

The Magnaformer

(Continued from Page 45)

A midget condenser is used as a trimmer to insure exact resonance in both tuned circuits governed by the two-gang Remler unit. In fact, Tom Lambert, who is responsible for this circuit has done everything possible to insure the utmost in efficiency. The RF circuit is neutralized and cannot oscillate.

The main panel remains the same, with the same number of controls, and the major portion of the circuit is unchanged. The RF unit, however, has been worked out to insure the highest efficiency possible and specifications should be followed to the letter.

Radio frequency amplification ahead of a "super" circuit has always been a difficult problem and calls for exactness in design of the type of RF coupler used. The same type of coupler used for straight RF amplification is not usually satisfactory for adding a "super" as it has too great a tendency to oscillate. Practically perfect neutralization is essential.

As a loop operated set the Magnaformer 9-8 has run into difficulties in locations where the loop is shielded, as in our modern stucco bungalows in

which the walls are full of chicken-wire. The new set with a short outside antenna overcomes this trouble.

The RF stage also eliminates some of the "repeats" of local stations which are bothersome when tuning DX.

Due to lack of space, it has been impossible to publish complete constructional details of this remarkable circuit. This information will be given in next week's issue.

PARTS FOR 4-9-10 MAGNAFORMER (Lambert Circuit)

- 1 Formica Main Panel, 7 x 26 x 3/16.
- 1 Formica Sub-Panel, 9 x 25 x 3/16.
- 5 Magnaformer Intermediate Transformers (IF-1, 2, 3, 4, 5).
- 1 Unicoupler, Unit CU No. 71 (Osc. Coupler).
- 2 Remler Universal Drum Type Dials with controls.
- 1 Remler No. 639 Universal Variable Condensers, .0005 MF. SLW (C-3).
- 1 Remler No. 632, 2-in-Line, .0005 MF. SLW Condenser (C-1, C-2).
- 1 Larco Antenna Coupler.
- 1 Larco RF Coupler.
- 10 Benjamin Sockets, No. 9044.
- 2 Benjamin Sub-Panel Brackets, No. 8629.
- 2 Ferranti Audio Transformers, AF-4 or AF-3 AFT-1, AFT-2).
- 1 National Tone Filter (Output Coupler).
- 1 Hammarlund 85 MH Choke.
- 2 Dubilier .00025 Grid Condensers with Clips (GC-1, GC-2).
- 1 Dubilier .001 Fixed Condenser (C-8).
- 1 Dubilier .006 Fixed Condenser (C-7).
- 2 Dubilier 1 MF By-pass Condensers (C-9, C-10).
- 2 Dubilier Metaleaks, 2 megohm (GL-1, GL-2).
- 1 Carter 400 ohm Potentiometer No. 1-R-100 (R-3).
- 1 Frost Combination Rheostat-Switch, No. S-1806 (R-5).
- 2 Frost 20 ohm Rheostats, No. 1820 (R-1, R-4).
- 4 Frost Tip Jacks, No. 253.
- 1 No. 112 Amperite with Holder (R-8).
- 1 No. 1-A Amperite with Holder (R-7).
- 1 Yaxley Cable Connector and Plug, No. 660.
- 1 Federal Anti-Capacity Switch, No. 1424-W (S-2).
- 1 Hammarlund Midget Condenser, 100 MMF (C-4).
- 1 Hammarlund Midget Condenser, 50 MMF (C-6).
- 1 Balancing Condenser (C-5) (Included in Larco RF Coupler Unit).
- 2 Frost F-5 or Yaxley 1-L Fixed Resistors (R-2, R-6).

Official MAGNAFORMER LABORATORY

The Magnaformer, as per Factory Specifications, Wired and Tested,
\$150.00

We also custom-build the Magnaformer with R.F. stage preceding the conventional layout, if desired.

We will test, assemble and wire your kit for \$35.00.

Our workmanship is in a class by itself.

LABORATORY OF RADIO STANDARDS

E. K. HAYES

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Vermont 6543

Los Angeles, Calif.

Interference

(Continued from Page 21)

Generators and Motors. Induction voltage regulators.
Industrial Applications—Arc light circuits. Telephone and Telegraph lines. Pole changers and converters. Street cars and electric railroads. Motors. Sign flashers.

Household Appliances—Electric pads and all thermostatic control devices. Violet Ray machines and all other forms of high frequency generators. Flat irons and all other types of resistance wire heaters. Door bells, light switches, motors, and all loose contacts and emanations from apparatus with moving parts, such as fans, vacuum cleaners, washing machines, etc.

Therefore, our first problem in each individual case of interference is to place it in the proper category. That is the purpose of the questionnaire. Our

good friend, Nick Harris, will, no doubt, help us ferret out the cause of some of the noises you describe on the dope sheet.

Each week hereafter we will take up a particular phase of the interference question. A specific case of interference and how it was remedied.

Shielded Grid Tube

(Continued from Page 18)

and the frequency amplified. It is most efficient at low frequencies, as in the intermediate stages of a superheterodyne.

Tube data on the SP-122 is as follows:

Filament volts—3.3 volts.

Filament current—.133 amps.

Plate potential—90 to 135 volts.

Screen grid potential—45 to 67½ positive.

Control grid potential—1 to 2 volts negative.

It is important, in order to take advantage of the properties of the tube, that the control grid (as distinguished from the screen) circuit must be well shielded from the other circuits.

The tube itself may be shielded as in Tyrman practice or each RF stage individually shielded as per Silver-Marshall and Hammarlund-Roberts. The stage shielding is necessary when the broadcast frequencies are amplified, and the shielded tube sockets are desirable in super-hets, where the RF coils are not tuned to broadcast frequencies.

The greatest amplification is had when the plate impedance is high, hence the impedance form of inter-tube coupling is advisable, or specially designed RF transformers having a high primary impedance at resonance.

The new tube, with its remarkable improvement over other types as an RF amplifier, will eventually result in the reduction of the number of tubes used in radio receivers. The SP-122 is made by the Shieldplate Tube Corporation of Chicago.

*A Useful But
Inexpensive GIFT*

BRACH
**STORM
KING**

**Lightning
Arrester**

Safety demands that you protect your radio with a **Brach Lightning Arrester** because all radios are subject to damage by lightning induction.

At Dealers Everywhere

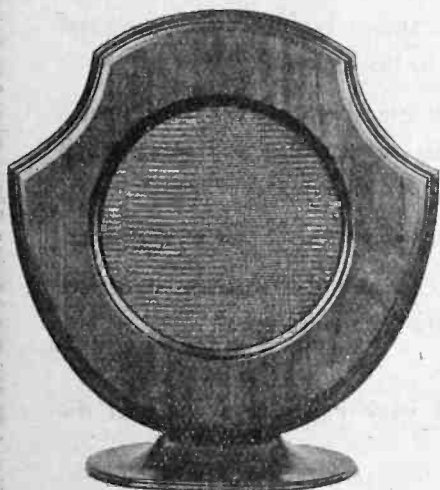
L. S. BRACH MFG. CORP.
NEWARK, N. J. TORONTO, CAN.



Timely Trade Topics

The California Wholesale Electric Company, of 413 East Eleventh street, Los Angeles, Cal., have just been appointed distributors for the Shamrock line of receivers. Shamrocks should go strong this season, since the line includes good AC sets at medium prices, and thus conforms to the public demand of the hour.

Below is shown one type of Lansing Speaker being manufactured by the Lansing Mfg. Co. of Los Angeles. These speakers are made both in fac-



tory types and models for the retail trade, and have won favor through their good musical quality under all conditions. They are marketed by the Frank A. Emmet Sales Co.

Presenting in convenient form much information not readily available elsewhere about the newer types of radio tubes and their use, a 32-page booklet

Manufacturer and Jobber!

Why not sell your goods in Hawaii, the South Seas, New Zealand, Australia, and the Orient?

Salesman making this trip would represent one or two firms from the United States. Address, giving details of your goods:

W. J. HOLCOMB
10311 Avalon Blvd. Los Angeles, Calif.

on "How to get the best results from your Radio Tubes" has just been published by the Gold Seal Electrical Co., Inc., manufacturers of Gold Seal tubes. It gives a clear account of the function of radio tubes in simple language and tells how the newer type tubes were developed to meet present-day conditions in broadcasting. How to select and install these tubes is fully explained, with illustrations and diagrams. There is also a section of technical data for the expert. Copies of this informative book may be had on request to the Gold Seal Electrical Co., Inc., 250 Park Ave., New York, or from any Gold Seal dealer.

The Yale Radio Electric Company report that the demand for the Jensen Dynamic Speaker is growing larger daily as more of the trade becomes acquainted with the truly marvelous reception obtained by this newly developed method of reproducing radio and phonograph music.

A. H. Jackson of the Gosilco Radio Products Company of Huntington Park, California, has just completed building a Magnaformer 9-8, all parts silver and gold-plated throughout, even to tube contacts. Needless to say it is a beautiful piece of workmanship, and the results he is obtaining are astounding.

Bertram Smith and J. D. Colford, western representatives for Kodol, together with John Church, chief engineer for the Kodol Company, spent last week in San Francisco visiting the trade.

! NOTICE !

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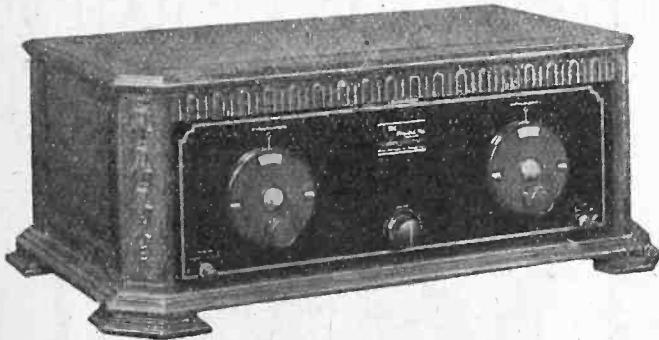
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