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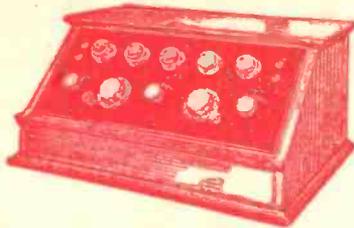
Vol. VII

AUGUST 23-29, 1925

No. 8

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Vol. VII Los Angeles AUGUST 22, 1925 San Francisco No. 8

CONTENTS

THE WHY OF RADIO

Eighth installment of K. G. Ormiston's
masterful course in Radio.

QUESTION AND ANSWER DEPARTMENT

NEW CIRCUIT DIAGRAM

Five tube neutrodyne with "C" bat-
tery with complete description.

PRIZE WINNER ANNOUNCEMENT

RADIO TOPICS OF THE DAY

A summary of the leading radio news
culled from every corner of the earth.

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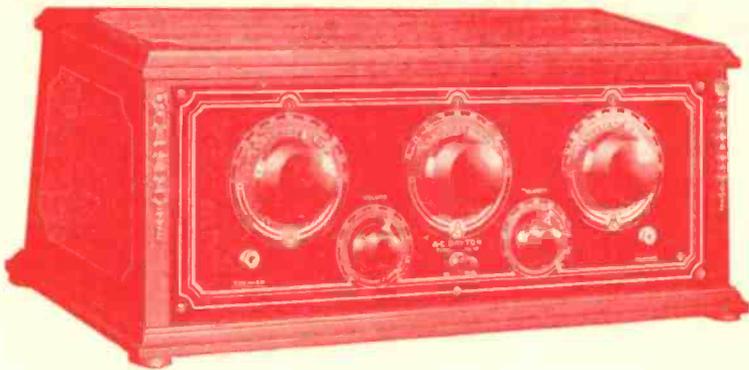
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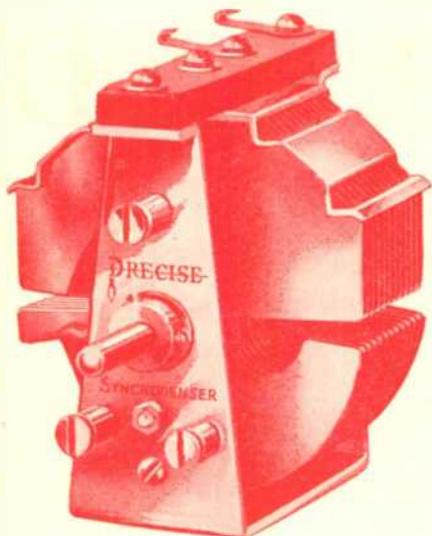


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The Editor's Opinion

We Are All Mighty Lucky!

OUR first automobiles were one lungers. When the four-cylinder stemwinder came along we were ready to proclaim it the age of miracles. When the first six-cylinder pioneer appeared on the streets, dire results were forecasted, calamity was sure to follow. But that was only the beginning. The eight and the twin-six have since followed and the ultimate motor car we will all drive is not yet in sight, although recent reports indicate that leaders in automotive construction are working on a new revolutionary idea.

How many of us are still driving one lungers? Nobody but acrobats in movie comedies. How many of us will be listening in over our present radio receiving sets in five years from today—yes, even in one year from today?

Radio is paralleling the automobile, but progressing with double the rapidity. The greatest minds in the world are laboring over the problem of sound and power transference through the air. In every hamlet in the

land amateurs are developing into experts and the great secret in radio may even be flashed out into the far reaches of the earth from some modest village through the efforts of an unknown humble worker. The Wright Brothers, of airship fame, ran a bicycle store in their little home town. History may repeat itself.

The two forthcoming radio shows, the one which opens Saturday at San Francisco, and that which follows it in Los Angeles on September 5, will reveal the progress made during the past year and no radio owner should fail to visit one or the other. Radio is going to mean more in the commercial and social life of the world for many years to come than any other existing factor. Lucky to be alive when this marvelous element has made its appearance, should any of us miss the opportunity that fate has given us to witness the progressive steps in the development of the great force we are handing down to our children?

Do not miss the radio shows!

Radio Topics of the Day

A Weekly Review of Radio News, Thought and Opinion

PLEASING THE LADIES

The problem of winning "Ma" to the side of radio has been a matter of much thought among radio manufacturers and merchandizers. "Pa" was won over from the very beginning. Radio gave all the overgrown boys with family responsibilities a new plaything and very quickly constituted a new rival against "Ma" for "Pa's" attentions. Then again radio interfered with mother's God-given right to hold converse especially when there were callers. The competition was too keen, and for a while mother resented it.

But, according to Elizabeth Hallam Bohn, the real head of the house is being slowly won over. She's more discriminating than father, and will not listen to anything just for the mere sake of having the radio on.

"The average woman," says Miss Bohn in "Radio in The Home," spends one-half to three-fourths of her day within her four walls, and with a radio set to keep her company she can become, by radio, the very image of Solomon's ideal wife, except that she need not rise so early to 'set her house in order.'

"Home-makers all over the country are eagerly drinking in every bit of worth while information the great radio stations have to offer, and I am willing to wager that very few cakes have fallen and still fewer male socks gone unattended because of their new devotion to the game of listening in."

On the question of what women want over the radio Miss Bohn offers the following

"They have reached the stage where they object to platitudes and long-winded dissertations. They want live, human, concise talks—not too long—on practical matters of home interest. Recipes and menu suggestions are always welcome, providing they are sanely arranged, with proper consideration for the types of home in which they will be eagerly scribbled down.

"Women can never have enough of fashion talks—all my letters sound this note—but they want them intelligible, informative, and inclusive, carrying workable ideas rather than the frills of the latest Paris importation.

"The feminine interest in the more violent forms of modern music is distinctly on the wane, and an unanimous desire is expressed of late for the dear old songs."

TIRING OF JAZZ

Recent surveys of requests sent to various broadcast stations throughout the country reveal the fact that jazz tunes are rapidly losing their popularity. A year ago over sixty per cent of all demands for special selections called for jazz airs. A thorough canvass of thirty leading stations show that not more than two per cent of requests made during the past sixty days have been for jazz. There seems to be a general tendency for a return to the popular classic selections of the past decade. Entire programs of leading comic operas have met with much approval. Other programs made up of grouped airs, such as plantation songs, war songs, old English

Radio Topics of the Day

A Weekly Review of Radio News, Thought and Opinion

songs, folk songs have also proven very popular.

In a recent test made by KNX, at Hollywood, less than one-tenth of one per cent of the requests were for jazz. A year ago over ninety per cent called for dance or jazz numbers.

FOR THE FANS IN PARIS

Broadcasting is carried on in the Paris district by the Eiffel Tower, the Société Française Radio-Electrique and the Superior School of the Postal, Telegraph and Telephone Services of the French Government, reports John Farr Simons, of the American Consulate in Paris to Popular Radio. The wave-length used by the Eiffel Tower is 2650 meters; the principal items broadcast are weather reports, stock exchange news and a radio concert every evening. The wave-length used by the Société Française Radio-Electrique is 1750 meters, which broadcasts two radio concerts, one in the afternoon and the other in the evening. The Superior School broadcasts on a wave of 458 meters; its program includes educational subjects and an evening concert.

WHACKS BARROOM YARNS

The placing of radio receiving sets in British "pubs"—as the English call their cafés, has received official commendation from a magistrate in Cornwall, says the European edition of the New York Herald. An application for installing a radio receiving set in a public bar came to the attention of a magistrate who, in

passing upon it, said that it was desirable that radio sets be installed in pubs, on the grounds that it would be far better for people who came to drink to listen to the educational matter broadcast than to sit about telling bar-room stories.

TINY REPUBLIC BARS RADIO

According to a Toulouse dispatch to Le Matin, of Paris, the tiny republic of Andorra, hidden away in the Pyrenean hills between France and Spain, will have nothing to do with Radio. The council of state, composed of twenty-four elected members, which, since the days of Charlemagne has constituted the government of the microscopic republic, has decisively turned down the request of a Spanish summer visitor at the Spa of Las Escaldes to use his Radio receiving set.

No reason is ascribed for the action beyond the surprising one that, "No newspapers and no Radio sets can be allowed in Andorra."

Announcement is made that station KHQ has increased its power from 500-watt to 1000-watt, and will be moved from the coast to Spokane, Wash., to be operated as a commercial radio broadcasting station. High-power equipment will be installed and it is expected the station will be in operation on or before September 15.

KHQ is the oldest licensed broadcasting station in the Pacific Northwest. Mr. Wasmer entered the field as an amateur 15 years ago.

The Why of Radio

By K. G. ORMISTON
Radio Technician

EDITOR'S NOTE.—This is the eighth installment of **RADIO DOINGS'** complete Course in Radio. It began with the issue of July 4th and will cover every phase of radio from the basic principles to and including every device and set now in use. This course will be continued from week to week.

(Continued from last week)

We have been discussing magnetism. We have defined it as a force existent in the ether naturally about certain metallic substances found in the earth, and about every conductor through which there flows an electric current. We have further stated that the magnetism produced by the flow of an electric current may in turn be caused to magnetize iron and steel and have explained the molecular theory to account for this fact.

Now we come to an extremely important electrical fact. It is this: Whenever an electrical conductor is moved in a magnetic field, or the magnetic field is caused to move across a stationary conductor, an electrical pressure is produced in the conductor. This is the fundamental principle underlying the functioning of all generators and transformers which make possible the widespread use of electricity.

It is a vital factor in the operation of every radio receiving set. If you own a Neutrodyne, for example, you realize that there is absolutely no electrical connection between the antenna circuit and the balance of the set. You depend upon the magnetic field produced about the primary or antenna coil, to in turn cause an electric current in the secondary winding of the first neutrodyne. In every audio frequency transformer, there is no electrical connection between the primary and secondary windings. The current in the primary winding magnetizes the soft iron core, and the magnetism of the core moving back and forth across the secondary winding produces a corresponding electric pressure and current in the secondary circuit.

In generators, we first produce a strong magnetic field by the use of electro-magnets, comprising coils upon soft iron cores. We then mount a large coil of wire upon a shaft and mechanically cause it to revolve rapidly in the magnetic field. In the coil we have produced an electrical pressure capable of causing a current flow which will

light our homes, drive electric street cars, supply the power for broadcast stations, etc.

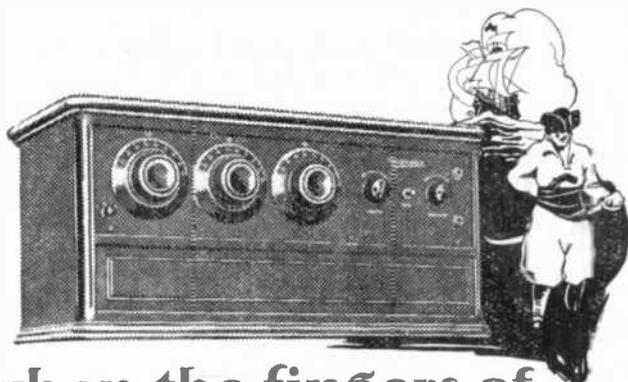
If we simply wave a coil of wire in the air, we find that a sensitive measuring instrument called a galvanometer, will indicate the fact that voltage is being produced in the coil. This is because, as we have previously stated, the earth itself is a great magnet, and in waving our coil in the wire we are moving it through a magnetic field—and this is all that is necessary to produce electrical pressure.

The exact process which takes place in the wire or about it is open to conjecture, but the fact remains that electrons are set into motion in a definite direction, magnetism immediately is evident around the wire or coil and these two forces can be made to work wonders for us.

Let our theoretical discussion should seem a bit dry, we will at this point come back to radio by illustrating in detail the application of the principles of magnetism to two familiar units, the headphone and the audio frequency transformer.

In Figure 2, "A" illustrates the normal arrangement of the molecules in an un-magnetized iron bar, each molecule assumed to be naturally a minute magnet. It can be seen that the magnetism of each molecule is offset by its neighbors, and there will be no resultant field about the iron. In "B" we see how the molecules are aligned in one general direction by the influence of an external magnetic field produced by coil of wire carrying an electric current.

In "C" we have an illustration of the ordinary headphone. In this case our core is not soft iron, but hard steel and is a permanent magnet with its north and south poles. This is regardless of the coil wound upon it or the current flowing therein. Mounted above the poles of the magnet and very close



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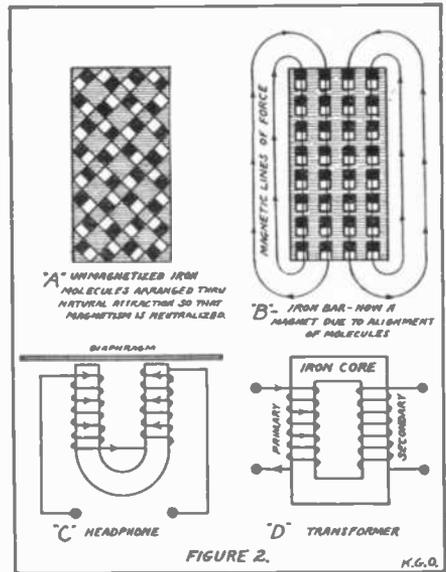
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The Why of Radio

thereto, we have the diaphragm, a round iron disc. There is a constant attraction exerted upon this diaphragm by the permanent magnet. Now when we cause a current to flow through the coil of wire we either decrease or increase the magnetism which exerts a pull upon the diaphragm, depending upon whether the direction of current is such that the resultant magnetism of the coil operates to assist the magnetism of the permanent core or oppose it.

Assuming a steady current flow through the winding in such direction that the two magnetic fields work together, the resultant total magnetism exerts a steady pull upon the diaphragm. Now suppose that we cause the current in the windings to vary, that instead of it flowing steadily we cause it to rapidly increase and decrease in amplitude. We cause a resultant change in the strength of the magnetism, and as we increase the magnetism we exert a stronger pull on the diaphragm and as we decrease the strength of magnetism we weaken the pull. As the diaphragm is very thin and free to move in the middle, though its outer edge is rigid, we find that it moves nearer or further from the poles of the magnet in step with our variations in magnetic strength. It follows that if we cause our current in the coils to vary in strength say 500 times per second, we will find that the diaphragm will vibrate 500 times per second. This vibrating diaphragm will set up waves in the air, and these air waves striking against the human ear-drum register in the braid a sound. And as sounds differ from each other only in the number of air-waves per second, we can by prop-

erly controlling the current in the windings of our headphone, produce sound waves which will register in the brain as a symphony orchestra, the pure notes of a famous soprano, or the voice of the President. It is **MAGNETISM** which is the connecting link between the variable current in the windings and the sound waves set up by the vibrating diaphragm.



In "D" we illustrate an audio frequency transformer. It consists of two windings upon a soft iron core. The windings are termed "primary" and

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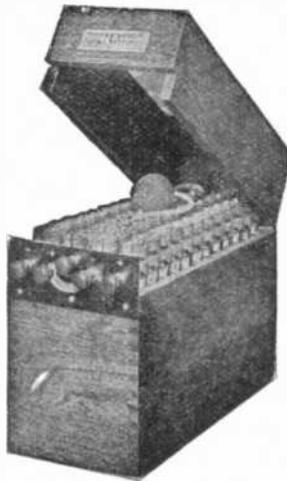
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B C O N V I N C E D W I T H **B** R A N T T R I A L O F F E R **B**

The Why of Radio

"secondary." The primary winding is in every case the one into which we first put electrical energy. By the process of magnetic induction electrical energy is produced in the other winding, and it is therefore called the secondary winding.

Current flow through the primary winding serves to align the molecules of the iron and make the soft iron core become a magnet with a magnetic field about it. This field of magnetism, when in motion, will induce electrical pressure in the secondary winding. The value of the pressure in the secondary winding will have the same relation to the voltage in the primary winding as the ratio of the number of turns. Hence if our secondary has twice the number of turns of wire that compose the primary we will have set up in the secondary a voltage twice as great as we have in the primary. This is what is meant

when we specify an audio transformer as having a ratio of 1 to 3, for example. We mean that there are three times as many turns on the secondary as there are on the primary and that the induced voltage in the secondary will be three times as great as the voltage of the primary.

As long as the current in the primary is steady and not varying in value we will have nothing in the secondary. You remember our fundamental principle stated that either the magnetism or the wire **MUST** be in motion. It is only when we change the value of current flowing in the primary that we have a result in the secondary, because only then do we change the strength of magnetism and cause it to move out further from the core or fall in. In its motion across the secondary winding, voltage is induced.

(To be continued.)

Three Class A Stations Added

Call	A Stations	Frequency Keys	Wavelengths Meters	Power Watts
KFWV	Wilbur Jerman, 385 58th St., S., Portland, Oregon	1410	212.6	5
WGBU	Florida Cities Finance Co., Fulford By-The-Sea, Florida	1080	278	500
KFWU	Louisiana College, Pineville, La.	1260	238	100

Public to Meet Famous Broadcast Artists in Person

Getting personally acquainted and mixing around with the owners of the voices that have charmed and entertained you over the radio during the past couple of years is to be one of the principal indoor sports at the Fourth National Annual Radio Exposition to be held at the Ambassador Auditorium, beginning September 5 and lasting until September 12.

The theatre in the Ambassador Hotel is to be converted into a thoroughly equipped broadcasting station. Admission will be free and there are accommodations for a large audience in the shape of comfortable theatre seats and setees. All the famous announcers and artists of the various broadcasting stations on the Coast will be on hand from day to day. The broadcasting will begin at 1 o'clock every afternoon and continue until 2. Special programs are

being arranged and request numbers from among those in the audience will be a regular feature of the programs.

At 2 o'clock the Educational programs will be broadcasted and every afternoon for half an hour noted leaders in all branches of science and industry will deliver talks over the radio on what radio has done for the particular subject in which they are interested.

Following the educational program the doors of the Exposition will open at 2:30 and all those who have attended the theatre events will be furnished with tickets for the main Auditorium at half price.

Les E. Taufenbach, prominent Los Angeles radio wholesaler, and an active member of the committee in charge, promises that the unique features at the show this year will exceed in number and in novelty all former shows held in the West.



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Questions and Answers

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By K. G. ORMISTON
Technical Editor, Radio Doings

NOTE.—Owing to the increased popularity of the Radio Doings Questions and Answer Section and the large number of letters we receive daily, we desire to announce that in the future more space will be given to this department. We maintain a Technical Staff, whose knowledge and experience is at the disposal of all radio fans. Let us help to solve your radio problems.

QUESTION—I have read with pleasure the many questions and answers published in your popular book. Now I would like to ask a few. Please write me of the merits and demerits of the Browning Drake circuit. Is it selective? Is it a distance getter? I have heard nothing but praise for it up here, but have wondered how it would work in congested air.

A. G. WIKLUND,
Woodland, Cal.

ANSWER—The Browning Drake circuit was published in the last issue of Radio Doings with comments thereon. The combination of tuned radio frequency amplification and regenerative detector makes for selectivity and sensitivity. Selectivity may be increased by using inductive coupling between the antenna circuit and the grid inductance of the R. F. amplifier.

QUESTION—I read in a recent issue how to lower the wave-length limit of a three-tube Roberts. KFVB is as low as mine will go, and KYW is the highest. Now, in taking off turns on the secondary of the antenna tuner unit, and off the secondary of the detector tuner unit, will it lower the wave-length? Will it reduce the distance getting qualities? Can I lower it to 205 meters without reducing the high wave-length limit below KYW on 535 meters?

FRED MOORE,
Venice, Calif.

ANSWER—Doing as you suggest will lower both the upper and lower limits. You understand that the wave-length is determined by the combination of inductance and capacity, these two electrical properties being the characteristics of the coil and condenser respectively. If, with a given coil, the scale range of the condenser carries you from 250 to 535 meters, any reduction in the size of the coil to bring the lower limit down to 205 meters, will also naturally pull down the upper limit also, since you still have the same maximum value of capacity in

conjunction with less inductance. This condition may then be righted by the use of larger condensers.

QUESTION—Being a radio bug of the first water I guess I come within that category of radio fans that have the advantage of asking for information and advice in your Question and Answer department. I am enclosing diagram of the Cockaday 8-tube reflex super, which I, a novice, have built. Strange to say, it works fine. What I want to know is where to incorporate C batteries in this circuit. The drain on my B batteries is quite heavy, and my purpose in using C battery is to reduce excessive drain on the B, and to improve the tone quality of the receiver if possible.

B. B. HANSEN,
Los Angeles, Calif.

ANSWER—A "C" battery cannot be used to advantage in this circuit, due to the fact that the audio amplification is of the resistance-coupled type, with the exception of the reflexed stage. Resistance-coupled amplification is naturally a little hard on the B battery, especially with a voltage of 135. Would suggest that you use large capacity storage B batteries with convenient charging apparatus to overcome your difficulty.

QUESTION—Can you give me a working diagram for a transformer to reduce 32-volt D. C. to 6 volts, to take the place of A battery? The 32 volts is from a 16-cell Delco lighting outfit battery. I would rather take my power off a light socket through a transformer than running wires to battery and cutting in for 6 volts, for the plant is some distance from the house, if this is possible and practical.

O. R. STEEL,
Carlsbad, Calif.

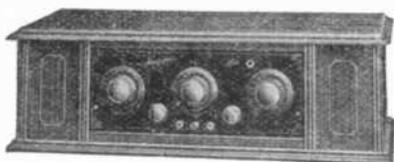
ANSWER—A transformer will not operate on direct current. This week's installment of "Why of Radio" explains the theory of transformers and the fact that with a steady, direct current, where



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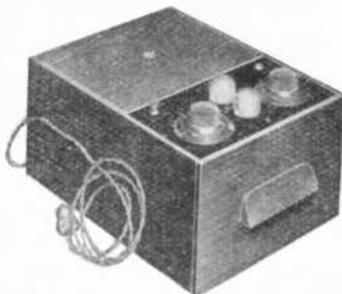
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Questions and Answers—Continued

the magnetism caused thereby is stationary and not in motion across the secondary winding, there will be no pressure produced in the secondary. A transformer will only function when the current in its primary is alternating, or at any rate constantly varying in value. The fundamental principle requires that either the magnetic field must be in motion or the winding in which it is desired to produce voltage by the process of induction, must be in motion. You have no alternative except to run leads to the batteries and tap off the desired voltage.

QUESTION—As a reader of Radio Doings I would like to ask you a question. Could I use a 30-foot iron pipe running from the ground up, for an antenna mast instead of a wooden one on the roof?

B. RATBLAT,
Los Angeles, Calif.

ANSWER—Yes, the iron pipe will be satisfactory, provided the antenna is well insulated from the pipe and kept some distance from same.

QUESTION—I have been reading your questions and answers for some time, and have received a great deal of information and enjoyment therefrom. I am using a three-tube Ware neutrodyne and have one brief question to ask. When the set is tuned to a low-powered station, requiring the rheostat to be turned on nearly twice as far as when the set is tuned to KFI, in order to get the same volume, is the drain on my batteries proportionately greater? Is the difference sufficient to materially shorten the life of my batteries?

DOUGLAS BLACK,
Redlands, Calif.

ANSWER—The increased current consumption from the A battery when the rheostat is advanced is not as important as the danger to the tubes and the shortening of their useful life. The UV-199 tubes, which your set uses, operate at maximum efficiency with 3 volts applied to the terminals of the filament. Any increase over this value rapidly uses up the available supply of thorium oxide, and renders the tubes useless. Never advance the rheostat further than is necessary to get satisfactory results. The ideal arrangement, however, is to use a voltmeter connect-

ed to the filament circuit on the tube side of the rheostat, and adjust for 3 volts always.

QUESTION—I am a regular subscriber to Radio Doings and would like to ask a few questions relative to the learning of code. Do you consider the Omnigraph automatic transmitter a good apparatus to use in code practice? What is the code speed usually used by commercial and amateur stations, and how long would it take to attain this speed?

THOMAS McCLOSKEY, JR.,
Terra Bella, Calif.

ANSWER—The Omnigraph is the machine used by the Supervisor of Radio in examining applicants for amateur and commercial licenses, and hence is a good machine to learn with, because it will not sound quite so strange and terrifying on that fateful day when you grip a pencil and, with the sweat standing out upon your fevered brow, endeavor to pick out a few of the dots and dashes which that monstrous machine so mercilessly buzzes into your ear at terrific speed. To acquire a decent license you should attain a speed of at least 20 words per minute, and with any given intelligence a certain definite number of hours practice would be necessary. In no two persons would this amount of practice be the same, perhaps, because no two persons have exactly the same degree of intelligence. The quickest way to learn is to attend a good radio school. To answer your question as to what speed is used generally, we would say from 10 to 35 words per minute, and to give you a general idea of how long it would take the average person, we would say from 3 to 6 months with several hours concentration daily.

QUESTION—I have a three-tube Lemco set and at times I don't seem to get enough volume. Do you think it would pay me to make an extension on my aerial, as per diagram enclosed?

A. B. KENYON,
San Diego, Calif.

ANSWER—Your idea of increasing the length of antenna by 35 feet is O.K. and it is not necessary that the new pole be of the same height as the old one. The lead-in wire, however, should come off the lower end of the aerial wire itself.

Radio Delivered by Plane

An aeroplane was utilized Aug. 8th by a Los Angeles wholesale radio firm to meet an emergency call for merchandise, thus setting another aerial precedent in Southern California.

The fete was accomplished by the Yale Radio Electric Company, Los Angeles jobbers for the Premier Ensem-

ble, took off for San Diego.

The plane arrived at Ryon field, San Diego, one hour and fifteen minutes later, beating the passenger air schedule by fifteen minutes, where the plane was met by practically all of the San Diego



THE RECORD MAKING PLANE

ble, a new type of radio set, following a long-distance call Friday for urgent delivery of Premier Ensemble sets to radio dealers at San Diego. Arrangements were quickly made and a truck carrying the shipment was dispatched to the Burdett air port, 104th and Western Ave. The plane was soon loaded and piloted by Bon MacDougall, well-known on the Pacific coast as a skilled aviator, with R. B. Yale of the Yale Radio Elec-

tric Company as passenger, took off for San Diego.

It is claimed that this is the first time in California that a wholesale firm has actually made delivery of a quantity of merchandise by aeroplane. The flight conclusively proves the real possibilities of aeroplane express and success in every respect, marked the history-making flight.

A German court has recently held that not only has a tenant a right to erect an antenna on a house top, but that owing to the importance of radio broadcasting, it is the duty of the proprietor to grant the tenant permission to erect an antenna.

An application from the "WKAF Broadcasting Co." of Milwaukee, Wis., for a Class A license has been filed. It is believed this station will be licensed soon on 261 meters or 1150 K-c's, with 250 watts power.

Hoover Will Call Conference This Fall

WASHINGTON.—Secretary of Commerce Hoover will call a national radio conference here this fall, he announced on his return to Washington last week. Although he has not had time to set a date or draw up a program, he feels that a conference is necessary once a year, and believes the three already held have benefited the department in its work. They have also demonstrated the willingness of the fans, manufacturers, broadcasters, amateurs and other interests to co-operate in keeping the air as clear and clean as possible.

The conference will be called in October or November, it is now believed, partly because of the many other problems confronting the Commerce head, and in order to give the department radio officials and the representatives of the industry time to draw up plans and suggestions to be considered by the general conference.

Officials of the department believe one of the most interesting questions to be discussed will be the limitation of power, or perhaps the removal of the power limitations now in force, if public sentiment, backed by experiments now going on, indicate that there is no reason for limiting the power of broadcasting stations.

Forty-two broadcasting stations are now using 1000 or more watts; seven of them are operating with at least 5KW, a once dreaded figure, although no complaints have been received since these broadcasters went on the air. Two stations are now experimenting with, or about to try, 50 KW. WGY's tests seem to have been satisfactory, and it is said that WJZ, the Radio Corporation's new high-power project located

outside of New York, will soon start testing its new 50 KW set. Other stations are preparing to try out broadcasting with 5 KW or more. It is estimated that at least twenty B stations are equipped to go to 5 KW, although only eight have been licensed to do so at this writing.

If a large number of the present stations went to high power, regardless of their proximity to each other or the relationship of their broadcasting channels, there would probably be difficulty in separating them. It may be found desirable to locate the very high-powered stations in distant states or perhaps a hundred or two miles apart, assigning them wave lengths separated by fifty meters or more. This would, of course, tend to limit the number of such stations, but this will probably adjust itself. There will not be many operators rich enough to build and maintain 50 KW stations, which cost almost a half million dollars to install.

Nevertheless, the views of the public will be sought, as well as those of the broadcasters, before any definite or limiting action on power is taken by the department. It may be necessary to have the old radio regulations and even the laws amended, and it is understood that the department will probably have a tentative radio law in shape for discussion by the time the conference convenes.

Secretary Hoover is a great believer in radio as a public service and he is also disposed to let the public in on any hearing which will affect such a public service—hence the Fall conference is a certainty.

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The BROADCASTERS

AT HOME

The Power of Broadcasting Stations

By JOHN SHEPARD III

Vice-President of the National Association of Broadcasters and Owner of Station WNAC, Boston, Mass.

I believe that the fact that broadcasting is a tremendous power is recognized by all. Why? Because without exertion, not even having to read, anyone listening in can absorb information and entertainment. People who have not attended musical comedies in ten years have gone after hearing a show broadcast. Probably nothing else could have drawn these people.

It is my firm belief that broadcasting is and will continue to be the greatest broadening influence in our lives. People who are narrow minded on religion must, when they listen to sermons not of their own faith, feel that the rest of the world is not so bad after all. One of the most popular services we broadcast from WNAC is the Jewish service from Temple Israel. The response to our first broadcast from the Temple was most gratifying, hundreds of complimentary letters being received and over 90 per cent were Gentiles. Can you conceive any other way of accomplishing the broadening and beneficial results that this broadcast did? An amusing example of this broadening influence is contained in the following true experience: One day last fall two typical prim New England maiden ladies called at our studio and one of them unburdened herself to the station secretary like this: "Sister and I always thought football was a most brutal game, but after hearing you broadcast we are going to a game." Then, in a whisper, "When are you going to broadcast a prize fight?" Now those two elderly women had believed all their lives that football and many other sports had a debasing effect, but radio has changed their minds. Radio has done more to educate the people to appreciate better music than any other agency.

Only last week a woman came to me and, with tears in her eyes, wanted to thank WNAC for the change its broadcasts had wrought in her life. She said that she and her husband had for some time been drifting apart, and doubtless would have eventually separated. Now, however, they were perfectly contented sitting and listening to the radio each evening, and with a common interest they were reunited and very happy.

These illustrations simply serve to give you from my personal experience some proof of the power that is in the hands of the broadcaster, and I am happy to be able to say that so far as my knowledge goes this power has not been abused, at least not by any first class station. The power of any individual broadcaster depends upon the popularity of that particular station, and this popularity is of course governed by the policies of the station and the variety and quality of the entertainment offered.

Our effort is to have our audience count on us for as many different features as possible, run regularly, such as news service every hour from 10:30 a. m. to 7:30 p. m., daily woman's club talks, daily dinner dances, etc.

All stations cannot run the same type of entertainment, and variety is of course needed. WNAC has, however, striven to give to its audience all the variety possible so that no matter what the taste of those listening might be, we would often have something to please them. Broadcasting a prize fight one night, two church services the next day, and a burlesque show direct from the stage on the following night, then a grand opera or a classical program from the studio on the next night, is just a sample of the different types of broadcasting we do.

Radio Wave Propagation

By E. F. W. ALEXANDERSON

Chief Consulting Engineer, Radio Corporation of America

Our knowledge of the laws of wave propagation is as yet very incomplete and much research work must be done of both a theoretical and practical nature before we can expect to have a full understanding of radio transmission. Such research work is being systematically conducted by the Radio Corporation and Associated companies, and several important discoveries have been made which throw a new light on the subject of wave propagation. The new knowledge thus gained will undoubtedly influence the future art of practical radio communication and I shall attempt to make a forecast of the developments which we have reason to expect.

Wave Polarization

In the first stage of radio development when ship communication was the principal object, a radio wave was characterized by its wave length and its decrement. The second great development in radio was transoceanic telegraphy. Transmitters producing waves with decrement became obsolete but a new characteristic of discrimination was introduced, the direction of the wave motion. In opening up the short wave field of radio we now find a third characteristic—wave polarization.

The great problems in radio are static, interference and fading. The trend of the radio art in the past has been debent made in overcoming these difficulties. The practical solution of these problems today are: directive reception for reduction of static, continuous waves to minimize interference, and the use of long waves to minimize fading. The future answer to these problems may be different. At least we have reason to think that the new knowledge which we have gained regarding wave propagation will furnish us additional methods of discriminating between signals and disturbances. Wave polarization will undoubtedly be one of the important factors in this new development.

A radio wave is of the same nature as the light wave, only with a greater wave length. The current theory of light radiation is based on the assumption that oscillations take place in all directions at right angles to the direction of propagation. These oscillations may be mathematically resolved into os-

illations polarized in two planes at right angles to each other, and one of these component oscillations may actually be suppressed.

In radio practice we have so far been in the habit of neglecting the possibility of wave polarization, although some of the earliest writers mention such possibilities. Fleming mentions two patent specifications by Alessandro Artour of 1902 and 1903 which are based on a theory of wave polarization. Our generally accepted formulas for radiation take into account only the radiation from vertically oscillating currents and receiving systems of the usual type are responsive only to vertical oscillations. This habit of thinking of radio waves as oscillations in the vertical plane has probably grown up as a result of the fact that horizontal electrical oscillations cannot take place close to the ground where all ordinary observations are made. An airplane with a trailing antenna can, on the other hand, radiate as well as receive horizontally polarized waves. In the length direction of such an air-plane antenna, the radiated oscillations are vertically polarized, but the directions at right angles to the antenna the radiation is horizontally polarized.

Systematic tests that have been conducted with radiation and reception of horizontally polarized waves have proven that this type of radiation is very useful for communication. It has been found that the wave gradually changes its plane of polarization so that a signal which has been transmitted by a horizontally polarized wave can be very well received with ordinary instruments at points distant from the transmitting station. In the neighborhood of the station on the other hand, these signals are very much weaker than signals transmitted from an ordinary station of equal power. The new wave has thus the advantage of creating less interference.

Our principal problems in radio communication are static, interference and fading. A brief analysis of these problems as we see them today will show that wave polarization is an important factor that should be taken into account.

(Continued on Page 84)

Neurodyne With "C" Battery

By K. G. ORMISTON

The schematic diagram this week is that of the standard five-tube neurodyne, to which has been added the necessary "C" battery in the grid circuits of the audio amplifiers. We have had many inquiries as to the method of connecting in the C battery.

The obstacle in the path of tuned radio frequency has always been the difficulty in preventing self-oscillation of the amplifier circuits. Prof. Hazeltine accomplished this by the use of the neutralizing condensers connected from grid to grid as shown, the connection to the following tube in this case being to a tap on the grid inductance. In addition to the neurodons, or neutralizing condensers whose purpose is to offset the internal capacity of the tube and prevent feed-back through that medium, it is essential that inductive feed-back between the three neuroformers be minimized by mounting them at a critical angle with respect to each other.

A condition of adjustment where regeneration actually takes place but not

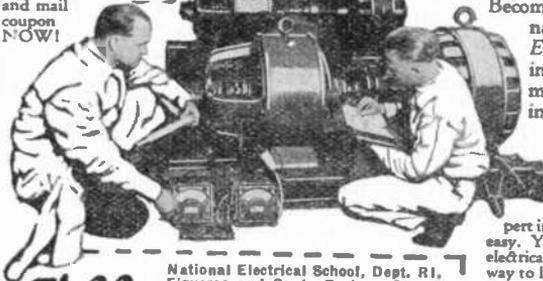
sufficient to allow oscillations to commence, is the most sensitive condition. Stability with maximum sensitiveness is the desired condition. Efficiency may be increased by the addition of regeneration in the detector circuit, this being almost the equal of another stage of radio frequency amplification. This may be accomplished by tuning the plate circuit of the detector with a variometer. Care must be taken in mounting the variometer in order that there is no inductive feed-back to the neuroformers of the R. F. stages.

The addition of the C battery makes for an improvement in the quality of reproduction and in addition greatly lengthens the life of the B batteries by reducing the current consumption from them. One 4½ C battery serves for both stages of audio by connecting it as shown in the common grid return.

The three dials are locked on the shafts of the variable condensers in such relative position that for any wave-length the three dials will have exactly the same setting, thereby greatly simplifying the logging of stations.

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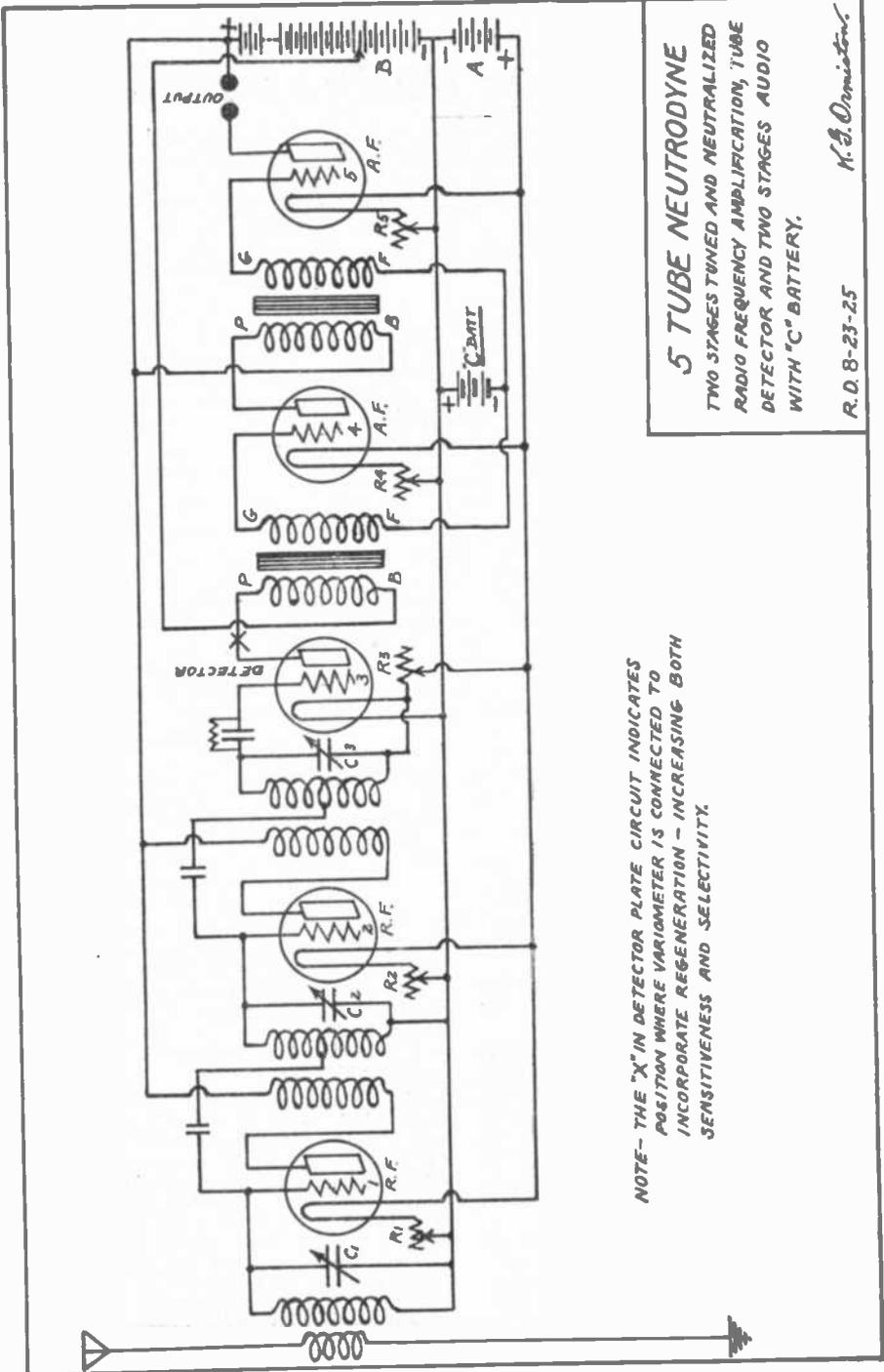
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DETECTOR AND TWO STAGES AUDIO
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R. D. 8-23-25

Silent Night? Yes and No! Read the Prize Letters—

Editor's Note—The two letters which have been awarded the first and second prizes in the contest for the best letter on the subject, "A Silent Night," announced over KFWB last Monday night, are widely different in viewpoint. The first prize, five Magnatron tubes, is awarded to Carl H. Pettit, of Whittier, Calif. Mr. Pettit suggests a method whereby a semi-silent night would permit long distance reception on the lower wavebands one week, and the higher waves the following week, as the local stations in these two classifications alternately remained silent for an hour or two on the agreed evening each week.

The second prize, a set of Cannonball ear phones, goes to C. W. Gayman, Los Angeles. Mr. Gayman, however, takes into consideration the radiation interference from the multitude of "bloopers" and cannot see how DX is to be made possible of reception by silencing the local stations. On many occasions when the local stations have all shut down in courtesy to the formal opening of some distant station, the air has been so chuck full of the squeals and squawks of the single circuit regenerators that satisfactory reception was well nigh impossible. With the locals on the air, however, the "bloopers" are not, as a rule, flopping their radiations across the carrier waves of the distant stations, but are parked on their favorite local, leaving the air fairly quiet for the highly selective and sensitive set to take its chance with the long distance station.

It is a muchly mooted question, and we have accordingly, in our decision in awarding the prizes, presented both sides of the question.

Whittier, Calif.

Radio Doings,
Los Angeles, Calif.

Dear Sirs:

Mr. Ormiston certainly suggested a live subject for this week.

Our programs here in Los Angeles and vicinity are certainly perfectly satisfactory. I believe, however, that every owner of a radio set likes at times to try for some of the more or less distant stations.

Every station expresses a desire to please their audience.

This being so, every station would be pleasing their hearers by giving them the chance for distance occasionally, just as much as by the splendid programs they present.

I would like to offer the following plan, but make no particular claim for originality in the matter.

Divide the stations in two groups, long wave and short wave. Choose some evening of the week that suits the majority of the stations. Let the long wave stations be silent one week and the short wave the next week, thus alternating weeks. The silent period to be from six-thirty or seven until nine, not longer, and possibly shorter.

This plan would allow one to try for eastern stations at a time of the evening when they are still broadcasting. At the same time there will be locals on the air for all those who wish to listen.

Surely this plan would not infringe on anyone's pleasure or lose any station their audience.

Yours respectfully,
CARL H. PETTIT,
206 N. Painter Ave.

August 15, 1925.

Dear Mr. Editor:

Most of us would like a silent night, but "they ain't no sech animal." Until the regenerative receiver has been abolished, there can be no such favorable silence. Of course, regeneration is invaluable in increasing a set's sensitivity, but it should not be permitted to take place in the receiving antenna. Therefore, I believe that straight regenerative detectors should be forbidden.

I do not believe, however, that appreciable radiation comes from the oscillating R. F. sets if the antenna circuit is aperiodic. My grudge is against the simple "bloopers."

As it is now, with six locals on, few simple regenerative sets try to get DX, and so most blooming is avoided for the super-hets and R. F. receivers. These latter sets can then "step out"; but nobody "steps out" if a blooper is on the DX station. Until they are done away with, a silent night will be very unsuccessful. At present I am heartily opposed to the silent night.

Respectfully yours,
CHARLES W. GAYMAN, JR.,
2080 W. 28th St., Los Angeles, Cal.

The Thrill of His Life— He Brought In Australia!

THIS eighteen-year-old youth came dashing into the office of Radio Doings to tell the story, broke all the speed laws to get there. His face was flushed, he was just all aglow, as happy as if he'd found a million—

BUT do you wonder? We've all had the same sort of thrill, possibly in a milder form, but is there any sensation that equals it? What we hear may not mean a continental darn, but the mere thought of a human voice piercing the ether from thousands of miles away stirs our imagination to its utmost heights—

THAT'S why, after a couple of distance hounds came in to tell us about their thrills last week, we decided that a lot of our readers would be interested in knowing some of the details of the distance experiences of a few of these enthusiastic yarn spinners.

THIS week the prize offer is to be for the best letter on "**My Most Thrilling Distance Experience.**" On Monday night, we will announce the conditions of the contest over KFWB during the **RADIO DOINGS TECHNICAL HOUR**, from 7 to 7:45. Do not fail to listen in. The first prize will be a Fit-All Radio Cabinet, presented by the Fit-All Radio Cabinet Company, of 604 Pacific Finance Bldg., Los Angeles; the second, one of the new Utah Speakers, presented by our good friend, C. W. Smith, prominent Los Angeles radio wholesaler.

DO not overlook **RADIO DOINGS TECHNICAL HOUR!** There's a world of useful radio information given by K. G. Ormiston, technical editor of this publication, and broadcast engineer of both KFWB and KFSG. The greatest expert in the Southwest. Also there's a prize offer every week. KFWB every Monday night from 7 to 7:45.

SUNDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME

(X) Indicates Station is On the Air

STATIONS				10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																								
CALL	Wave Length Meters	Power in Watts	STATION	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	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			
KHJ	405	500	Los Angeles.....	X	X	X	X	X													X	X		X	X	X	X	X	X	X	X	X		
KFI	468	3000	Los Angeles.....	X	X	X	X									X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
KJS	294	250	Los Angeles.....																	X	X	X	X	X	X	X	X	X	X	X	X	X		
KFSG	277	500	Los Angeles.....		X	X	X	X					X	X	X	X						X	X	X	X	X	X	X	X	X	X	X		
KNX	337	500	Los Angeles.....	X	X	X	X														X	X	X	X	X	X	X	X	X	X	X	X		
KFWB	252	500	Los Angeles.....																															
KPPC	229	50	Pasadena.....		X	X	X	X																										
KFWO	211	250	Catalina.....															X	X					K	X	X	X	X						
KFON	233	100	Long Beach.....																															
KPO	429	500	San Francisco.....		X	X	X					X									X	X	X	X	X	X	X	X	X	X	X	X	X	
KFRC	267	50	San Francisco.....														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KJBS	236	50	San Francisco.....															X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KGO	361	2000	Oakland.....			X	X									X	X							X	X									
KFUS	236	50	Oakland.....													X	X																	
KRE	259	100	Berkeley.....																		X	X		X	X	X	X	X	X	X	X	X	X	
KFUU	224	50	San Leandro.....									X	X	X																				
KFOU	234	100	Holy City, Calif.....			X	X			X	X																	X	X					
KGU	270	500	Honolulu.....																											X	X	X	X	
KTCL	306	1000	Seattle.....																							X	X	X						
KTW	272	750	Seattle.....			X	X						X	X																				
KGW	492	500	Portland.....		X	X	X																		X	X	X							
CFAC	430	1000	Calgary.....																								X	X						
KOA	323	2000	Denver.....	X	X								X	X																				
KSL	300	500	Salt Lake City.....																						X	X	X	X	X	X	X	X	X	X
KTHS	375	500	Hot Springs.....		X	X	X		X	X	X													X	X	X	X	X	X	X	X	X	X	
WBAP	472	1000	Fort Worth.....									X	X	X	X															X	X			
WFAA	476	500	Dallas.....															X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WOC	484	500	Davenport.....		X	X															X	X	X	X	X	X	X	X	X	X	X	X	X	
KSD	545	500	St. Louis.....																					X	X									
WGR	319	500	Buffalo.....				X	X	X	X																								

45,000 Listeners-In Read "Radio Doings" Seven Days Each Week

PANELS	<i>"Nothing Else But"</i> Special Discounts to the Trade	ENGRAVING
FORMICA Wholesale and Retail	WE HAVE MOVED Our New Home 1125 Wall St., Los Angeles Westmore 4277	Drilling Cutting
Hard Rubber	RADIO LAB. & MFG. CO.	
Any Size, Any Color, Any Time		Service When You Want It

Here's where they always are on the

Day-Fan

RADIO Dial

AIR DIRECTORY

Call Letters	Owner or Station	Location	Power
KFAE	State College of Wash.	Pasadena, Wash.	500
KFI	Earl's Academy Inc.	Los Angeles, Cal.	350 500
KFKY	Westinghouse EPR Co.	Huntington, W. Va.	400 500
KFOW	Eschscholtz Radio Shop	Long Beach, Cal.	200 1000
KFDT	Radio Service Corp.	San Luis Obispo, Cal.	234 100
KFSG	Angelus Temple	Los Angeles, Cal.	268 500
KFWB	Warner Bros. Pictures Inc.	Hollywood, Cal.	278 500
KGO	General Electric Co.	Oakland, Cal.	252 500
KGW	Oregonian Pub Co.	Portland, Ore.	351 1000

GRAHAM-REYNOLDS ELECTRIC CO.

AIR DIRECTORY

Call Letters	Owner or Station	Location	Power
KHJ	Times Mirror Co.	Los Angeles, Cal.	400 500
KJVS	Times Mirror Co.	Los Angeles, Cal.	294 150
KLX	Oakland Pub Co.	Oakland, Cal.	500 500
KNX	L.A. Reg. Exp. Inc.	Hollywood, Cal.	337 500
KOA	General Electric Co.	Denver, Colo.	312 1500
KOB	New Mexico College	State College, N.M.	500 150
KPO	Hale Bros. Inc.	San Francisco, Cal.	429 500
KPPC	Pasadena Press Church	Pasadena, Cal.	225 50
KSL	Radio Service Corp.	San Luis Obispo, Cal.	300 1000

LOS ANGELES, CALIFORNIA

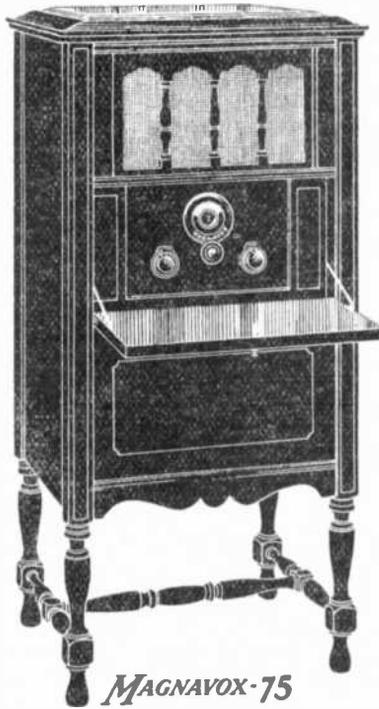
**New Models to Be Displayed at the Los Angeles Radio Show
Booths 50, 51 and 52**

Distributed by

GRAHAM-REYNOLDS ELECTRIC COMPANY

WHOLESALE ELECTRIC & RADIO SUPPLIES

**300 EAST THIRD STREET
LOS ANGELES**



In the Magnavox-75 Receiver will be found all that is finest in radio reception—tone, selectivity, reliability, sound mechanical construction, and handsome cabinet work. Only one dial is required to control this instrument—a great convenience. It is made by the pioneer radio manufacturers of the Pacific Coast.

MUNSON~RAYNER Corporation

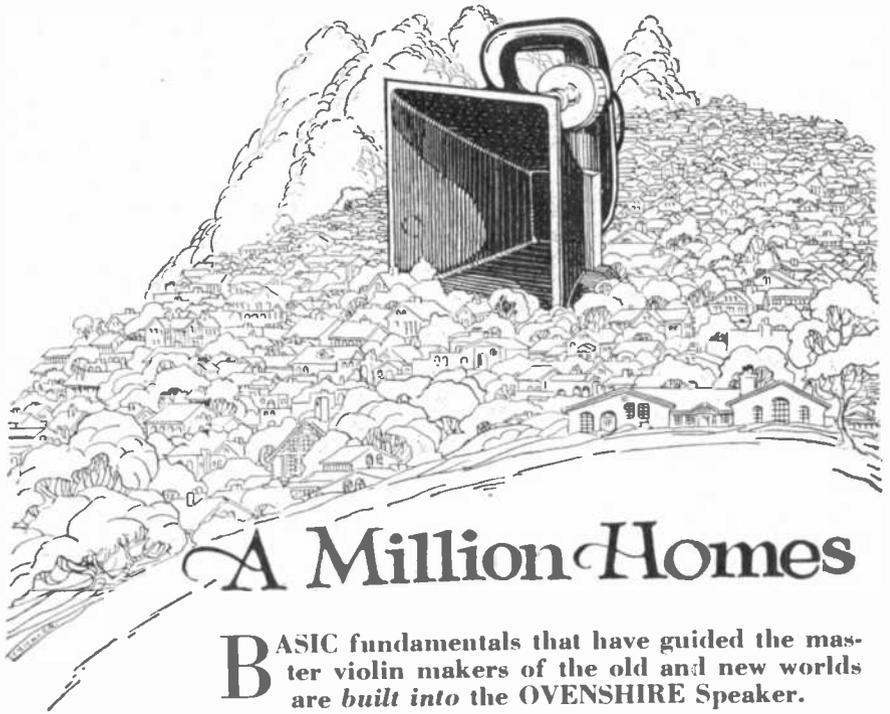
Distributors

643 S. Olive St.
LOS ANGELES

86 Third St.
SAN FRANCISCO

63 Sixth St.
PORTLAND

33-A



A Million Homes

BASIC fundamentals that have guided the master violin makers of the old and new worlds are *built into* the OVENSHERE Speaker.

To this creation has just been added the OVENSHERE Symphony Unit—designed with equal skill and the same *definite* determination to provide the Radio World with *perfect radio reproduction*.

OVENSHERE Speakers and OVENSHERE Units are now available thru carefully selected preferred dealers—everywhere. If you care to discover how good your set *really* is, write or telephone us for literature and the address of the preferred dealer nearest you.

NOTE: OVENSHERE Products will be exhibited at the RADIO SHOW in both San Francisco and Los Angeles. Watch for them.

DEALERS in position to qualify will be interested in our *preferred dealer sales plan*. Wire, phone or write *without delay*, while territory is available.

OVENSHERE LABORATORIES
 Phone BRoadway 5696 706 North Main St.
 LOS ANGELES, CALIFORNIA

OVENSHERE

SYMPHONY SPEAKER AND UNIT



The Stewart-Warner Radio Franchise is Exclusive!

The Stewart-Warner Franchise is exclusive in more ways than one. It is exclusive in that it can be secured only from us as the sole wholesale distributors in this territory — it is exclusive because it protects the Stewart-Warner retail dealer against neighborhood competition.

There will be but one Stewart-Warner franchise granted in your vicinity. If you can realize the advantages of handling a complete line of high grade radio equipment from the lowest priced set at \$65 list to the magnificent console at \$450 list, together with a real reproducer; a thoroughly efficient tube and component equipment, and think you are the kind of a dealer who can properly sell the line, we want to hear from you **RIGHT NOW**. Tomorrow might see someone else in your vicinity get the franchise.

[Phone Mr. Wilson at WEstmore
2411 for particulars.]

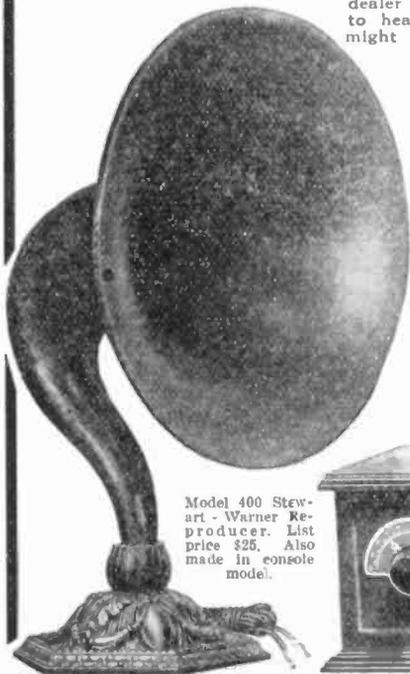
Stewart-Warner

Products Service Station

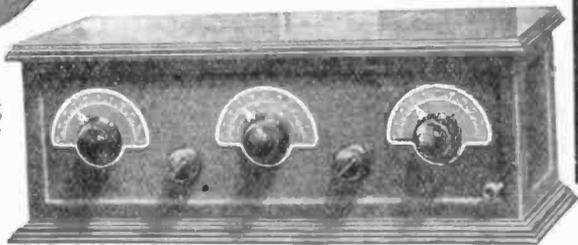
(Sole Distributors Stewart-Warner Radio)

1366 South Figueroa St.
LOS ANGELES

Model 300 Stewart-Warner Receiver. This, like the other receivers, uses the great U. S. Navy circuit.



Model 400 Stewart-Warner Reproducer. List price \$25. Also made in console model.





Radio Service

*If Your Set Don't Work
Call*

EMpire 1141



L. A. DUNCAN

RADIO ELECTRICIANS

2889-99 West Pico St., Los Angeles
(Corner of Pico and Kingsley)

SATURDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME

(X) Indicates Station is On the Air

STATIONS			10-12 A.M.	12-2 P.M.	2-4 P.M.	4-6 P.M.	6-8 P.M.	8-10 P.M.	10-12 P.M.																							
CALL	Wave Length Meters	Power in Watts	LOCATION	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	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	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		
KFI	468	3000	Los Angeles																													
KHJ	405	500	Los Angeles	X	X	X	X	X	X			X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KNX	337	500	Los Angeles	X	X	X	X	X	X			X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
KFSG	277	500	Los Angeles		X	X	X							X	X								X	X	X	X	X	X	X	X	X	
KFWB	252	500	Los Angeles								X	X												X	X	X	X	X	X	X	X	
KFWO	211	250	Catalina														X	X				X	X	X	X	X	X	X	X	X	X	
KFON	233	100	Long Beach	X	X													X	X	X								X	X	X	X	
KPO	429	500	San Francisco		X			X					X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
KLS	360	250	San Francisco										X	X	X						X											
KFRG	267	50	San Francisco																			X										
KJBS	236	50	San Francisco	X	X	X					X													X	X	X	X	X	X	X	X	
KFUS	235	50	Oakland																						X	X	X	X	X	X	X	X
KGO	361	2000	Oakland			X	X	X							X	X	X							X	X	X	X	X	X	X	X	
KZM	242	50	Oakland												X	X	X					X			X	X	X	X	X	X	X	
KRE	259	100	Berkeley																						X	X	X	X	X	X	X	
KFQH	220	50	Burlingame																						X	X	X	X	X	X	X	
KFQU	234	100	Holy City, Calif.																						X	X	X	X	X	X	X	
KGW	492	500	Portland			X	X	X	X											X	X	X	X					X	X	X	X	
KFJR	263	50	Portland							X	X																		X	X	X	X
KFOA	454	500	Seattle											X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
KGU	270	500	Honolulu																									X	X	X	X	X
CFCN	440	500	Calgary																										X	X	X	X
CKCD	410	1000	Vancouver, B. C.																						X	X						
CFAC	430	1000	Calgary			X						X	X																			
WFAA	476	500	Dallas	X												X	X						X	X								
WBAP	476	1000	Fort Worth	X	X	X																		X	X							
WOC	484	2000	Davenport	X			X			X								X			X	X										
KTHS	375	500	Hot Springs																					X	X	X	X	X	X	X	X	
KOA	323	2000	Denver	X	X											X	X															
KLZ	283	250	Denver		X			X	X			X									X			X	X							
KSL	300	1000	Salt Lake City																						X	X	X	X	X	X	X	
KFWA	261	500	Ogden												X	X								X	X	X	X	X	X	X	X	
WDAF	366	500	Kansas City							X					X	X													X	X	X	X
KSD	545	500	St. Louis																					X	X							
WWJ	353	500	Detroit				X	X	X			X	X	X	X	X																
WCX	517	500	Detroit							X	X																					
WBZ	331	1000	Springfield												X	X	X	X	X	X												
WTAM	390	1500	Cleveland												X									X	X	X	X	X	X	X	X	
WKRC	328	1000	Cincinnati																													
WQJ	448	500	Chicago							X	X							X	X					X	X	X	X	X	X	X	X	
WMAQ	448	500	Chicago												X				X	X	X	X										
KYW	535	1000	Chicago														X		X	X	X	X	X	X	X	X	X	X	X	X	X	
WLS	345	500	Chicago																					X	X	X	X	X	X	X	X	
WGN	370	1000	Chicago												X	X	X	X	X	X	X	X										
KDKA	309	1000	Pittsburgh												X	X	X	X	X	X												
WGY	385	1500	Schenectady																					X	X	X						
WGR	319	500	Buffalo										X	X									X	X	X							
WJZ	455	1000	New York			X	X	X	X	X	X			X	X	X	X	X	X	X	X	X										
WOO	509	500	Philadelphia														X	X	X	X	X											

45,000 Listeners-In Read "Radio Doings" Seven Days Each Week

Buy Standard Equipment —and Be Safe

Radio Equipment
Is Standard Only
After It Has Been
On the Market
Long Enough to
Prove Its Merits

Visit Booth No. 18
San Francisc Radio Show, Aug. 22nd to 28th
Civic Auditorium

KIERULFF & RAVENSCROFT

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LOS ANGELES
Phone: WEstmore 1317



651 Howard Street
SAN FRANCISCO
Phone: Garfield 5453

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Exclusive Kennedy Distributors for California

Special Announcement

THE C. W. SMITH COMPANY announces that they have been appointed Southern California Distributors of SYLFAN PRODUCTS. Full particulars and pictures of this popular line appear in the four-page insert of this issue.

Dealers: Get our special discount proposition on SYLFAN BLUE SPECIAL TUBES.

C. W. SMITH CO.

WHOLESALE ONLY

1125 Wall St.

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Los Angeles

Mellow in Tone
Moderate in Price

Sylfan REPRODUCERS

gains by comparison with any other loud speaker. It amplifies the full range of instrumental and vocal tones, so that they may be heard clearly in every part of the room.

Ask your dealer to demonstrate the *Sylfan* Reproducer. Its full, rich mellow musical tone, free of the harsh, guttural sounds of ordinary loudspeakers—its low price is certain to impress you favorably.

Horn type, finished in soft brown. Cabinet type, suitable to grace the most elaborate home, finished in dark toned mahogany.



Cabinet
Type
\$28



Horn
Type
\$25

Sylfan PRODUCTS

may be obtained at all the better Electrical, Radio, Hardware and Department Stores. Ask your dealer for a demonstration. It places you under no obligation.



\$2.50
each



\$2.50
each



Sylfan

Radio Tubes are good tubes—honest tubes—selling at an honest price on an unconditional guarantee. Ask your dealer or write us for full information. *Read the guarantee certificate in every package.*

Sylfan Silver Tubes are made in standard size—501-A, for use with storage batteries; peanut for use with dry batteries. 499 has regular peanut tube base. 499-A has standard base.

Sylfan BLUE SPECIALS

are MATCHED Tubes, and are matched in answer to the radio fan's demand for tubes of perfect balance and similar characteristics, and are sold singly and in kits of three and five MATCHED tubes.

Individual characteristics accompany each tube. They will give maximum volume, without microphonic distortion. Their tone quality is unsurpassed. You can positively match the singles with those in the kits for use in receivers of other tube capacities.

Singles, \$2.75. Kits of three tubes, \$8.25.
Kits of five tubes, \$13.75

Sylfan Blue Specials are selected—tested—matched—guaranteed. Ask your dealer. He can get them for you if you insist.



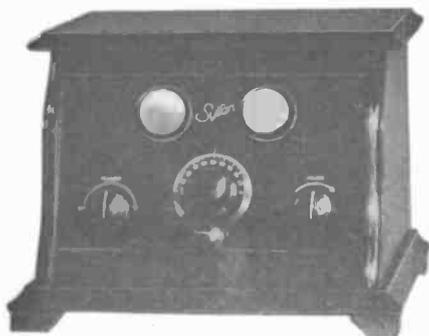
BAKER SMITH CO., 1204 Manufacturers and Marketers
SAN FRANCISCO, CALIF. and all principal cities

Sylfan RECEIVERS

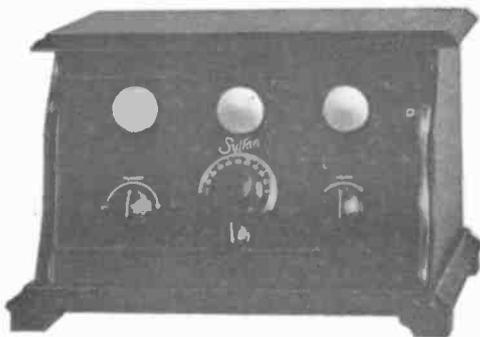
make up in performance what they lack in price. And, after all, performance is what you want in a Radio Receiver.

Sylfan Receivers invite you by their beauty—intrigue you by their performance—surprise you by their moderate price.

Sylfan Receivers are made with sloping panel of genuine black Bakelite, with visible tubes. Cabinets are genuine three-ply mahogany, with dark, hand-rubbed D u c o finish. Wiring is simple and accessible. Room for B batteries in cabinet.



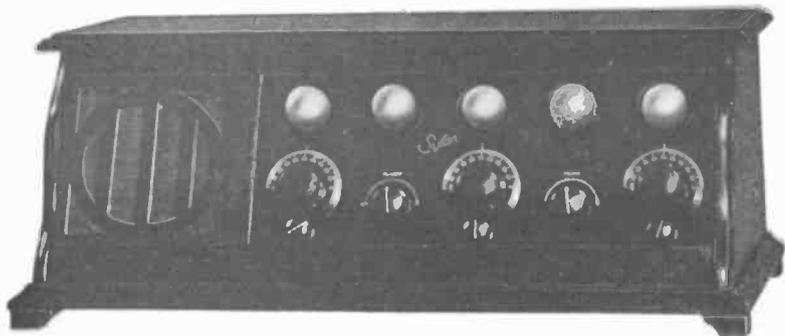
Two-tube Armstrong Regenerative, with Loud Speaker built in\$80
21" long, 14" deep, 11" high.
Without Speaker\$50
13" long, 14" deep, 11" high.



Three-tube Armstrong Regenerative, with Loud Speaker built in\$90
23" long, 14" deep, 11" high.
Without Speaker\$60
15" long, 14" deep, 11" high.

Five-tube Tuned Radio Frequency (two radio; two audio; detector) with Loud Speaker built in\$130
27" long, 14" deep, 11" high.
Without Speaker\$100
19" long, 14" deep, 11" high.

Ask your Dealer for a demonstration



Sylfan PRODUCTS

IN PRESENTING *Sylfan* products to the Radio World, emphasis should be laid upon the fact that they are an expression of the best brains in radio engineering, as well as the cabinet-makers' art.

Sylfan Products are manufactured to perform satisfactorily, to please the most discriminating, and, at the same time, to sell for prices compatible with the purse of the average public.

The name *Sylfan* is new to the Radio World, but before long promises to be synonymous with the "best in Radio." Each *Sylfan* Product—Tubes, Receivers, Loud Speakers—represents the results of the *best brains in the radio industry*. Each is *unconditionally guaranteed to give complete satisfaction*.

Sylfan Products are manufactured and marketed by the BAKER-SMITH COMPANY, Incorporated, a national manufacturing and marketing organization of responsibility and unquestioned reputation in the electrical and automotive industries.

It will pay you to investigate Sylfan Products before you invest in Radio

BAKER-SMITH CO., Inc.

Manufacturers Established 1906 Marketers

NEW CALL BUILDING :: SAN FRANCISCO

Branch Office Addresses:

New York City	1270 Broadway
Chicago	30 N. Dearborn St.
Denver	McClintock Bldg.
Salt Lake City	136 E. Broadway
Los Angeles	443 So. San Pedro St.
Portland, Ore.	Henry Building
Seattle	L. C. Smith Bldg.
Vancouver, B. C.	179 Pender St., West

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Sylfa

PRO

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Horn type, finished in soft brown. Cabinet type, suitable to grace the most elaborate home, finished in dark toned mahogany.



Cabinet
Type 1
\$28



Horn
Type
\$25

PRODUCTS

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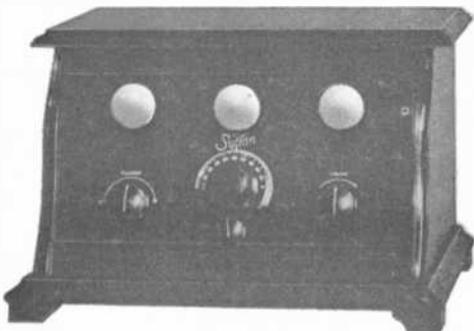
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21" long, 14" deep, 11" high.

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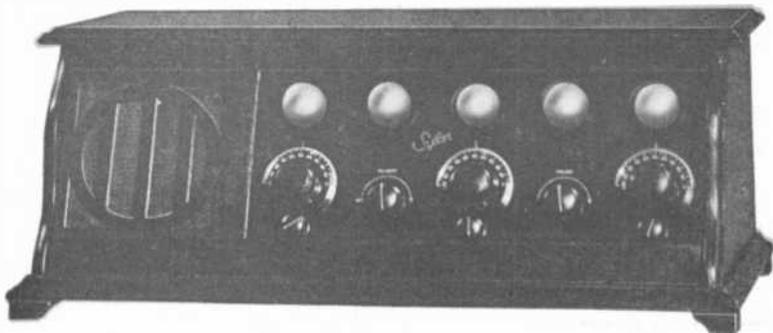
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Without Speaker\$100
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Ask your Dealer for a demonstration



All Those in Favor Say "Aye!"

H. W. Smith, a 22-karat radio fan, a subscriber to Radio Doings, and a big business man, assistant manager of the National Surety Company, comes along this week with what we call a powerful idea. He suggests a "Subscribers' Club" for the exchange of letters on radio experience through a special department in Radio Doings. We are for it, if you are. It will enhance the pleasure of your radio hours a thousand per cent. Mr. Smith explains his idea very clearly and every Radio Doings reader should follow every word of his letter. After that sit down and write us and say "LET'S GO! WE'RE 'RARIN'!" It's up to you:

Los Angeles, Cal., August 10, 1925.

Editor, Radio Doings:

With thousands of persons operating radio receiving sets, there must be at least hundreds of enthusiasts who, in concentrating their thoughts and efforts on one given subject, will conceive improvements of method, equipment or operation which would be of value in advancing the science of radio and its practical use. Necessity is the mother of invention. The many difficulties encountered in accomplishing the goals which "Radio Bugs" set for themselves and the manner in which these are overcome by the individual, develop ideas and information which can only prove valuable IF THEY ARE CENTRALIZED AND CONCENTRATED. This can be done by means of correspondence between the individuals operating radio receivers, through a common clearing house. "Radio Doings" is the logical answer to this problem.

My suggestion is, therefore, that you establish a department which will receive and publish letters from one reader to another on topics of mutual interest. Other readers than those addressed, finding a topic discussed which interests them, will join these two with comments on it; and you then have centralized that community interest referred to. The gratification of seeing their own letters in print will assist in sustaining interest. Comments from "Ye Editor" will be pertinent and helpful.

To illustrate: I have a "super het" and on Sunday, in the heart of the hot weather season, while many local stations are broadcasting, I get church services at Portland on the loud speaker—with enough volume to hear a block away. But, try as I may, I cannot bring in Oakland, although it is not so far away. Jones, however, gets Oakland easily, but cannot get through to Portland. We both correspond through Radio Doings; and I give Jones my method of tuning in, length of antenna, etc., etc., and he tells me just how he gets Oakland. Meanwhile, every amateur who has had trouble in getting "Foreign" cities reads both letters and gets the "dope" from each.

Again: Brown, after months of effort, gets New York City on loud speaker. He does not enjoy the program as much as a

local one, but right away the desire to "tell the whole world" about it—to boast—is created. He has set a mark of accomplishment. Johnson immediately writes to Brown that HE has picked up Havana, Cuba. White, reading of this, determines to try for both stations. Will he not be glad to have a chance to ask Brown and Johnson questions which will assist him? And is it not probable that when White applies their suggestions, he will develop improvements over their methods which may enable him to bring in a more distant station? Would not such a sequence of events deepen the interest in radio generally and broaden the commercial possibilities?

Such methods as the formation of a "Radio Club" available to subscribers of record; possibly the offering of prizes for long distance reception; competitions between subscribers, etc., etc., can best be worked out by an experienced man.

A very important factor in creating this department will be the man in charge of it. He should be, above all else, a radio enthusiast himself—WITH A PERSONALITY. Mechanical or routine handling of such an idea would, I believe, kill it. The faculty of breaking down the natural reserve or indolence (or both) which exists in most people, and which holds back the impulse to "write about it," coupled with a patient, boyish enthusiasm (for we are all kids when at play) and an appreciation of the faltering efforts of all amateurs in all lines, will build up a spirit of fellowship which should pad the subscription lists of any publication and send advertising rates skyward. In the language of the platform, he should be able to "get over" to his public.

And imagination—IMAGINATION. That rarest of qualities, the mental visualizing of the seemingly impossible. Creative thoughts PLUS enthusiastic energy. Why, as I write, I can scarcely restrain the desire to put it over myself; for the right man will reap a reward in personal friendships, to say nothing of the "pride of accomplishment," far in excess of any remuneration.

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H. W. SMITH.

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 GLEN RICE, Program Manager

DAILY—

6:45 to 7:00—KFI Radiatorial Period. (Sunday only) Music Appreciation Chat and Father Ricard's Sun Spot Weather Forecast.

DAILY EXCEPT SUNDAY—

5:30 to 6:00 p. m.—L. A. Examiner matinee program.

6:00 to 6:15 p. m.—"KFI Nightly Doings and Amusement Information Service."

SUNDAY ONLY—

6:30 to 6:45 p. m.—MacDaniel's Nightly Doings and Amusement Information.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

10:00 a. m.—Morning services under the direction of the Los Angeles Church Federation. Address, and music by choir.

4:00 p. m.—Vesper services. Arranged by Nell Mitchell, soprano.

6:45 p. m.—Father Ricard's Sun Spot Weather Forecast. Music Appreciation Chat.

7:00 p. m.—Program presented by Mr. Newman, manager, from the Stage and Studio of the Metropolitan Theatre, featuring the 45-piece orchestra playing in the pit of the theatre, and the artists appearing in the prologue.

*8:00 p. m.—Classic Hour, featuring Glenn Dolberg, baritone, winner of Calif. Estedford with assisting artists.

9:00 p. m.—Program presented by L. A. Examiner.

10:00 p. m.—Packard Six orchestra, under the codirection of Bill Hennessy and Chet Mittendorf. "Tiny" Dick Barton, soloist.

MONDAY, AUGUST 24—

7:00 to 7:45 p. m.—Chet Mittendorf's orchestra.

*8:00 p. m.—A program by the Apollo Duo.

9:00 p. m.—Weekly program presented by the Walter M. Murphy Motors Company.

10:00 p. m.—Program presented by L. A. Examiner.

TUESDAY, AUGUST 25—

7:00 p. m.—Ella Hall, soprano.

8:00 p. m.—Program presented by L. A. Examiner.

*9:00 p. m.—Theron Bennett, composer-pianist, arranging program.

9:30 p. m.—Ray West, violinist, and John te Groen, marimaphone.

10:00 p. m.—Packard Ballad Hour, featuring Billy Hall, Polly Grant Hall, the Ashley Sisters, Marion Boogar, Bud Jamison, and others.

WEDNESDAY, AUGUST 26—

7:00 p. m.—Nick Harris, famous detective, author and lecturer. Detective stories proving the folly of committing crime.

7:30 p. m.—Way Watts and his ukelele and assisting artists.

*8:00 p. m.—Weekly program presented by the Ventura Refining Company, featuring the Ventura String quartet and other radio favorites.

9:00 p. m.—Program presented by L. A. Examiner.

10:00 p. m.—Regular Wednesday night program of the Patrick-Marsh orchestra. Betty Patrick, "no bigger than a minute," soloist.

THURSDAY, AUGUST 27—

12:10 (noon)—Christian Science lecture, Philharmonic Auditorium.

7:00 p. m.—Margaret Johnson, violinist; Manuel Emanuelle, baritone; G. Davis Brillhart, pianist.

8:00 p. m.—Retta King Nelson, mezzo-soprano; Glendale Ladies' Octette; Grace Burke, concert pianist.

*9:00 p. m.—Program presented by the Southern California Music Company, from Chickering Hall, Los Angeles.

10:00 p. m.—Program presented by L. A. Examiner.

FRIDAY, AUGUST 28—

7:00 p. m.—Program presented by L. A. Examiner.

*8:00 p. m.—Organ recital. Dan L. MacFarland at the console of the Aeolian Residence Pipe organ.

9:00 p. m.—Timmer string quartet; Agnes Kraemer, soprano; Ralph Reily, tenor; Grace Eaton Dow, pianist.

10:00 p. m.—Myra Belle Vickers' monthly program.

SATURDAY, AUGUST 29—

7:00 p. m.—Eddie Miller's All-American string quartet.

7:30 p. m.—Eleanor Corgia Hunter, contralto; Frank Warner, violinist; William Pilcher, tenor.

8:00 p. m.—Program presented by L. A. Examiner.

9:00 p. m.—Charles Brand, flutist; Dan Gridley, tenor.

9:30 p. m.—Harold Isbell, cellist; Lelia V. Isbell, pianist; Kathryn Martin, the "Radio Meadow-lark."

10:00 p. m.—Packard Radio Club, featuring Way Watts and his uke; Dorothy Cleveland, Jack Kurtz, Ralph Vincent, the Carlson Sisters.

*11:00 p. m.—KFI Midnight Frolic; Don Meaney presenting stars of screen and stage. William Beaudine (B. B.), Master of Ceremonies. Program until 3 a. m.

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DAILY EXCEPT SUNDAY—

- 7:00 to 7:15 a. m.—Daily except Sunday... "Setting-Up Exercises" by Prof. Barclay L. Severns.
 12:00 M. to 12:30 p. m.—Leighton's Arcade Cafeteria Orchestra, by Prof. Barshaw, director.
 5:30 to 6:00 p. m.—Leighton's Arcade Cafeteria Orchestra.
 6:00 to 6:30 p. m.—Art Hickman's Biltmore Concert Orchestra, under the direction of Edward Fitzpatrick.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:00 to 10:30 a. m.—Sermon from KHJ Studio.
 10:30 a. m. to 12:30 p. m.—Organ recital and entire religious service from the First Methodist Episcopal Church, Arthur Blakeley, organist. Rev. Elmer E. Helms, pastor.
 6:00 to 6:30 p. m.—Leighton's Arcade Cafeteria Orchestra, under the direction of Jack Cronshaw.
 6:30 to 7:00 p. m.—Art Hickman's Biltmore Concert Orchestra, directed by Edward Fitzpatrick.
 7:00 to 7:30 p. m.—Organ recital from the First Methodist Episcopal Church, Arthur Blakeley, organist.
 8:00 to 10:00 p. m.—Program through the courtesy of the Los Angeles Soap Company.

MONDAY, AUGUST 24—

- 12:30 to 1:30 p. m.—Program presenting the Piggly Wiggly Girls, courtesy of the Piggly Wiggly Stores. Earle Lyman Sanborn, basso-cantante. Howard W. Coombs, pianist. Silent rest of day.

TUESDAY, AUGUST 25—

- 12:30 to 1:30 p. m.—Program presenting James Grier and his orchestra, from Balboa Beach.
 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company.
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian. Weekly visit of Queen Titania and her Sandman. Louis F. Klein, harmonica and auto-harp. Charles Leslie Hill, 4-year-old reader.
 7:30 p. m.—H. M. Robertson will talk on "Dogs."
 8:00 to 10:00 p. m.—Program sponsored by Young's Market Company.
 10:00 to 11:00 p. m.—Art Hickman's Biltmore Dance Orchestra, directed by Earl Burnnett.

WEDNESDAY, AUGUST 26—

- 12:30 to 1:30 p. m.—Program of dance music by Rendezvous Ballroom Orchestra, from Crystal Beach, Santa Monica.
 1:30 p. m.—Fred C. McNabb of Aggeler & Musser Seed Company.
 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company.
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian. Dick Winslow, screen juvenile reporter. Baby Muriel MacCormack, screen juvenile. Mickey McBan, Scotch Laddie of KHJ. Olga Mitana, 13 years of age, and Rose Rondzik, 13, in violin duets, with Mary Hinds, accompanist.
 8:00 p. m.—Dr. Mars Baumgardt, lecturer.
 8:30 to 9:30 p. m.—Program by the Alva Radio Company.
 9:30 p. m.—Program by the Piggly Wiggly Girls, through the courtesy of the Piggly Wiggly Stores.
 10:00 to 11:00 p. m.—Art Hickman's Biltmore Dance Orchestra, Earl Burnnett, director.

THURSDAY, AUGUST 27—

- 12:30 to 1:30 p. m.—Program presenting Kenneth Morse and his Six Friars. Salvador Baguez, baritone.
 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company.
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian. Dickie Brandon, screen juvenile. Jane Hughes, "Sunny Jane." Doris Campbell, 9-year old pianist.
 7:45 p. m.—Dr. Phillip M. Lovell will talk on "Care of the Body."
 8:00 to 10:00 p. m.—Program sponsored by the Pacific Electric Railway Company.
 10:00 to 11:00 p. m.—Art Hickman's Biltmore Dance Orchestra, directed by Earl Burnnett.

FRIDAY, AUGUST 28—

- 12:30 to 1:30 p. m.—Program of dance music by Dorsey's Sebastian Cafe Orchestra, from Venice.
 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company.
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian. Sketch written by Edyth McGrath. Richard Headrick, screen juvenile. Vyola Von, "Wild Rose of KHJ."
 8:00 to 10:00 p. m.—Program through the courtesy of the Western Auto Supply Company.
 10:00 to 11:00 p. m.—Art Hickman's Biltmore Dance Orchestra, directed by Earl Burnnett.

SATURDAY, AUGUST 29—

- 10:00 a. m. to 12:00 m.—Weekly KHJ broadcast class.
 12:30 to 1:30 p. m.—Program presented by Owen Fallon's Californians.
 2:30 to 3:30 p. m.—Matinee program sponsored by the Pacific States Electric Company.
 6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, Radio Historian. Helene Pirie, screen juvenile. Dolly Wright, "Dolly of Radioland."
 8:00 to 10:00 p. m.—Program through the courtesy of the Newberry Electric Company.
 10:00 to 11:00 p. m.—Art Hickman's Biltmore Dance Orchestra, under the leadership of Earl Burnnett.
 11:30 p. m. to 2:00 a. m.—Weekly frolic of the "Lost Angels of KHJ" sponsored by the Fifty-Fifty Products Company.

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 CARRIE P. RITTMEISTER, Program Manager

DAILY EXCEPT SUNDAY—

- 7:30 a. m.—KNX morning gym directed by J. C. Casey, physiotherapist.
- 8:00 a. m.—Inspirational talk and morning prayer.
- 9:00 a. m.—Time signals from Washington, D. C., followed by birthday notices.
- 10:00 a. m.—Town Crier of the Day's Morning Message.
- 10:30 a. m.—Kate Brew Vaughn, director household economics, Evening Express.
- 12:00 m. to 1:00 p. m.—Wurlitzer organ recital from Wurlitzer studio.
- 1:30 p. m.—The Book Worm.
- 2:00 to 5:00 p. m.—Radio matinee—market reports.
- 5:30 to 6:15 p. m.—Wurlitzer organ concert, Wurlitzer studio, Sid Ziff "Sport Talk."
- 5:55 p. m.—The Town Tattler.
- 6:15 p. m.—W. F. Alder Travelogue.
- 6:30 to 7:00 p. m.—Atwater Kent orchestra; courtesy Electric Equipment Co., distributors of Atwater-Kent Radio Receiving Sets.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:00 a. m. to 12:00 m.—First Presbyterian Church of Hollywood, Rev. Stewart P. MacLennan.
- 7:00 to 8:00 p. m.—First Presbyterian Church of Hollywood, Rev. Stewart P. MacLennan.
- 8:00 to 9:00 p. m.—Ambassador Concert orchestra, Josef Rosenfeld, leader.
- 9:00 to 10:30 p. m.—Beverly Hills Nurseries courtesy program.

MONDAY, AUGUST 24—

- 2:00 p. m.—Musical half-hour.
- 2:30 p. m.—KNX Players.
- 2:30 to 3:30 p. m.—KNX Players.
- 4:00 p. m.—Helen's Household Hints, Veda Knapp, music appreciation.
- 7:00 to 7:30 p. m.—Mutual Motors Inc. mirth contest.
- 7:30 to 8:00 p. m.—Columbia Outfitting Co. courtesy program.
- 8:00 to 9:00 p. m.—L. W. Stockwell Company courtesy program Town Crier of the Night.
- 9:00 to 10:00 p. m.—Listenwalter & Gough courtesy program.
- 10:00 to 11:00 p. m.—B. F. Goodrich Rubber Co. of Akron, Ohio, courtesy program; Goodrich Silverton Cord orchestra, Lilyan May Challenger.
- 11:00 to 12:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove orchestra.

TUESDAY, AUGUST 25—

- 9:00 a. m.—Musically illustrated lecture on evening program of Hollywood Bowl by Sarah Ellen Barnes.
- 1:00 p. m.—Garden Talk by Mr. Chenowith of Beverly Hills Nurseries.
- 2:00 to 3:00 p. m.—City Board of Health musical program.
- 7:00 to 8:00 p. m.—Don Clark and his La Monica Ballroom orchestra.
- 8:00 to 9:00 p. m.—Feature program, Town Crier of Day Watch.
- 9:00 to 10:00 p. m.—Reeve-Gartzmann Inc. courtesy program.
- 10:00 to 12:00 p. m.—Movie night) Ambassador; Ray West's Coconut Grove orchestra.

WEDNESDAY, AUGUST 26—

- 7:10 a. m.—Swimming class by Carl Curtis.
- 1:00 p. m.—Dr. Wayne B. Burr care of children.
- 7:00 to 8:00 p. m.—Ambassador Concert orchestra, Josef Rosenfeld, leader.
- 8:00 to 9:00 p. m.—Weber Baking Co. courtesy program.
- 9:00 to 10:00 p. m.—Hercules Gasoline Co. courtesy program.

THURSDAY, AUGUST 27—

- 8:15 a. m.—Wesley Beans, baritone.
- 9:00 a. m.—Musically illustrated lecture on evening program of Hollywood Bowl by Sarah Ellen Barnes.
- 11:00 a. m.—Nature talk, courtesy of Marvel Ant Gelatin Co.
- 7:00 to 8:00 p. m.—John A. Evans Corporation courtesy program.
- 3:00 p. m.—Chef de Cuisine talk.

FRIDAY, AUGUST 28—

- 10:00 to 11:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove orchestra.
- 9:00 a. m.—Musically illustrated lecture of evening program by Hollywood Bowl by Sarah Ellen Barnes.
- 1:00 p. m.—The Village Gossip.
- 5:30 p. m.—Talk on golf by D. Scott Chisholm; Wurlitzer organ concert.
- 7:00 to 7:30 p. m.—Beverlyridge Co. courtesy program.
- 7:30 p. m.—Eastern Outfitting Co. program, Town Crier of the Night Watch.
- 8:00 to 9:00 p. m.—West Coast Theatres from West Coast studio.
- 11:00 to 12:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove orchestra.
- 10:00 to 11:00 p. m.—Runnymede Poultry colony courtesy program.
- 9:00 to 10:00 p. m.—Davis Perfection Bread Co. courtesy program.
- 12:00 to 2:00 a. m.—Night Hawks from Wurlitzer studio.

SATURDAY, AUGUST 29—

- 7:10 a. m.—Swimming class by Carl Curtis.
- 9:00 a. m.—Musically illustrated lecture on evening program of Hollywood Bowl by Sarah Ellen Barnes.
- 1:00 p. m.—F. W. Van Why, chief technician, Radio talk to radio fans.
- 3:00 p. m.—Town Crier of the Day Watch and his pals.
- 7:00 p. m.—H. W. McSpadden talk on insect life.
- 7:15 p. m.—Announcement church service.
- 7:30 to 8:00 p. m.—Wurlitzer organ recital from Wurlitzer studios.
- 8:00 to 10:00 p. m.—Feature program. Town Crier of the Night Watch.
- 10:00 to 11:00 p. m.—Hotel Ambassador, Ray West's Coconut Grove orchestra.
- 11:00 to 2:00 a. m.—Hollywood Nite, Town Crier of the Night Watch.

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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

We come on the air at 9:00 P. M. with Warner Bros. Frolic. Several Movie Stars participate in this evening's entertainment.

MONDAY, AUGUST 24—

- 6:00 to 7:00 p. m.—Children's hour conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from The Book of Knowledge.
7:00 to 7:45 p. m.—Radio Doings' Question and Answer Period conducted by K. C. Ormiston, Technical Editor of Radio Doings. Musical selections during this time are rendered by The Van Sisters' Trio, violin, cello and piano, and J. Stanley Fulbright, tenor, who is accompanied by J. S. Miller.
8:00 to 9:00 p. m.—Program presented by the courtesy of The Star Motor Car Company featuring: 1, The Million Dollar Four Orchestra; 2, Don Lindberg, saxophone; 3, Frank Pierce and Vic Beall, novelty songs; 4, Dan Gridley, tenor; 5, Alma Lou Barnes, soprano.
9:00 to 10:00 p. m.—Program presented by the courtesy of E. P. James, builder of fine homes, Altadena, presenting Bob Mayo's Orchestra; 2, Kathryn Martin, soprano; 3, Frank Stever, baritone; 4, Dave Chudnow, piano; 5, Corinne Cleveland, blue singer.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

TUESDAY, AUGUST 25—

- 6:00 to 7:00 p. m.—Children's hour conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from The Book of Knowledge.
7:00 to 7:10 p. m.—Howard Beall, golf instructor, talks on golf.
7:30 to 9:00 p. m.—Program presented by the courtesy of The Western's Super Service Garage, owned and operated by The J. K. Frank Finance Co., featuring Margaret Lancaster, contralto; 2, Mrs. Howard, concert pianist; 3, Ashley Sisters, vocal duets; 4, Charlie Wellman, tenor; 5, Great Western Quartette; 6, Ray Kellogg and Bill Hatch, violin and piano.
9:00 to 10:00 p. m.—Program presented by the courtesy of H. L. Crockett, Hudson-Essex Dealer, featuring H. L. Crockett and his quartette; 2, The Elite Trio; 3, Way Watts, singer with ukelele and others.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

WEDNESDAY, AUGUST 26—

- 6:00 to 7:00 p. m.—Children's hour conducted by Big Brother of KFWB with stories, educational subjects and answers to children's questions taken from The Book of Knowledge.
7:00 to 7:30 p. m.—Program presented by the courtesy of The Mutual Motors, Inc. Just a half hour of fun. Musical selections by Ed. Kelly, tenor.
7:30 to 8:00 p. m.—Program presented by the courtesy of The Beverly Ridge Company, featuring The Beverly Ridge Hawaiians, Richard Coburn, Louise Howatt, pianologue and others.
8:00 to 9:00 p. m.—Program presented by the courtesy of John Wright, The Right Tailor, featuring Barbara Bunnell, blue singer; 2, John Wright's Orchestra; 3, Frank Pierce and Vic Beall, novelty songs; 4, Fred Roger's Hawaiian Trio; 5, Alma Brown, soprano.
9:00 to 10:00 p. m.—Program presented by the courtesy of the Independent Furniture Company featuring Johnnie Mitchell's Darktown Orchestra; 2, Dot Street, soprano and others.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

THURSDAY, AUGUST 27—

- 7:40 to 7:50 p. m.—Howard Beall, golf instructor, talks on golf.
7:50 to 8:00 p. m.—Jack Boaz, fishing scout of the N. Y. Hardware Trading Co., reports on fishing conditions in Southern California.
8:00 to 9:00 p. m.—Program presented by the courtesy of The Starr Piano Co., featuring the Hollywood Rythm Kings, Ina Mitchell Butler, soprano; 3, Jack Wilson, singer with ukelele and other entertainers. All selections on this program are arrangements on Gennette Records.
9:00 to 10:00 p. m.—Program presented by the courtesy of Don P. Smith, Inc., featuring the Diana-Moon Orchestra; 2, Clarence Decker's Hawaiian Trio; 3, Irene Franklyn, trumpet; 4, Charley Ilch, piano; 5, Max Ibers, banjo.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

FRIDAY, AUGUST 28—

- 8:00 to 9:00 p. m.—Program presented by the courtesy of the Monte Mar Vista Subdividers, featuring 1, Ray Harrison's Orchestra; 2, Violet Preston, blue singer; 3, Dorothy Dodds, ballads; 4, Babe Brown, ukelele; 5, Don McNamee and George Green, accordion and banjo.
9:00 to 10:00 p. m.—Program presented by the courtesy of James Bell & Sons, featuring 1, The James Bell Orchestra; 2, Don McNamee and Geo. Green, accordion and banjo; 3, Melba Mel-sing, singer with guitar; 4, Tom Mitchell, baritone; 5, Francis St. George, KFWB Jazzmania girl.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

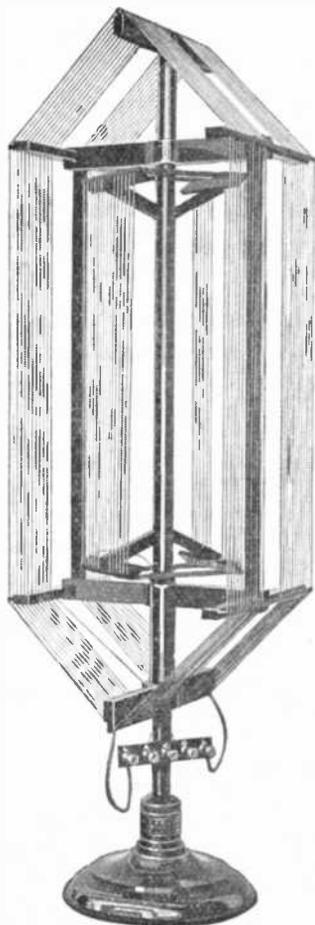
SATURDAY, AUGUST 29—

- 8:00 to 9:00 p. m.—Program presented by the courtesy of the Paralto Studios featuring several artists.
9:00 to 10:00 p. m.—Wilda Bernard, soprano; 2, Frances St. George, KFWB Jazzmania Girl; 3, Miss Livonis Somes, whistler; 4, Fred Bruley, saw; 5, J. Stanley Fulbright, tenor.
10:00 to 11:00 p. m.—Warner Bros. Frolic.

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ESSIE BINKLEY LOCY, Program Manager.

G. N. NICHOLS, Program Announcer

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:30 a. m. to 12:30 p. m.—Complete church service. Sermon by Aimee Semple McPherson. John Kennedy, baritone.
 2:30 to 4:30 p. m.—Afternoon service. Dispensational message by pastor. Will Stitt, baritone.
 7:00 to 8:00 p. m.—Sacred Concert. Temple Silver Band and Choir. Helen Stanhope, soprano. Thomas Johnson, baritone. Hudson-Essex Quartet.
 8:00 to 9:45 p. m.—Revival service conducted by Aimee Semple McPherson. Altar Call and After Service.
 10:00 to 11:00 p. m.—Organ recital by Esther Fricke Green. Message, vocalists and benediction.

TUESDAY, AUGUST 25—

- 10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 a. m. to 12:30 p. m.—Ruth Frances Thomas, organist. Fanny Ashby, Radio Girl.
 3:30 to 4:30 p. m.—Organ recital.
 6:30 to 7:30 p. m.—Gray Studio program by Harry James Beardsley.

WEDNESDAY, AUGUST 26—

- 10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 a. m. to 12:30 p. m.—Missionary talk, Bertha Milligan. John Kennedy, baritone. Amanda Garden, reader. Felicia Lavender Black, soprano.
 2:30 to 5:30 p. m.—Divine Healing service. Sermon by Aimee Semple McPherson. Testimonies. Ladies chorus. Fanny Ashby, radio girl.
 6:30 to 7:30 p. m.—Program presented by John Kennedy.

THURSDAY, AUGUST 27—

- 10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 to 12:30 p. m.—Elsabea Miller, soprano. Delta Garlock, pianist. Eunice Hogan Cragin and Alice Reed, sopranos. Essie Binkley Locy, cornetist. Organ numbers.
 3:30 to 4:30 p. m.—Organ recital by B. Earnest Ballard. Leta Dow Kennedy.
 7:30 to 9:15 p. m.—Regular Water Baptismal service by Aimee Semple McPherson.
 9:15 to 10:00 p. m.—Gray Studio program by Sierra String Trio, Pasadena, Cal.
 10:00 to 11:00 p. m.—Organ recital.

FRIDAY, AUGUST 28—

- 10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 a. m. to 12:30 p. m.—Mrs. W. B. Miller, steel guitar and ukelele. Helen Stanhope, soprano. Organ numbers.
 3:30 to 4:30 p. m.—Organ recital. Flora Field, soprano.
 7:30 to 9:30 p. m.—Crusaders Rally. Address by Aimee Semple McPherson.
 9:30 to 10:30 p. m.—Silver Band Concert directed by G. N. Nichols. Vocal artists assisting.

SATURDAY, AUGUST 29—

- 10:30 to 11:30 a. m.—Sunshine Hour.
 11:30 a. m. to 12:30 p. m.—Inglewood String Trio. Clyde Umbey, baritone. Ruth Winter Hanna, soprano. Stephen C. Manausa, steel guitar. Organ numbers.
 3:30 to 4:30 p. m.—Children's Orchestra directed by Helen McNaughton. Blanche Clay. Ruth Clayton.
 7:30 to 9:30 p. m.—Divine Healing Service conducted by pastor.

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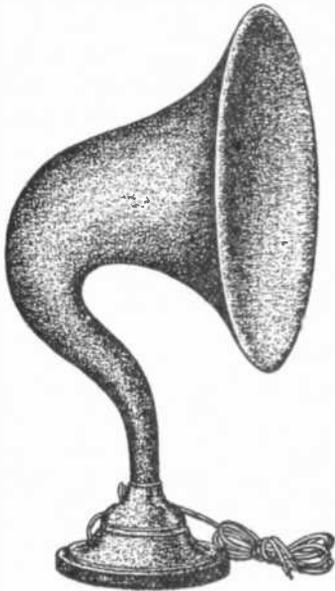
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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:45 to 12:30 p. m.—Regular services of the Church of the Open Door, including sermon by Dr. W. Irving Carroll, of Dallas, Texas. Musical program under the direction of Mr. E. P. Burley; chorus choir; Prof. Reginald W. Martin, organist.
 6:00 to 6:45 p. m.—Radio Vesper Service. Service by Rev. Louis Tinning of San Juan Capistrano; Mr. Petty of Whittier, soloists. Glen Smith, organist.
 7:15 to 9:30 p. m.—Church service with sermon by Dr. W. Irving Carroll. Musical program under the direction of Mr. E. P. Burley; assisted by chorus choir and Prof. Reginald W. Martin, organist.

MONDAY, AUGUST 24—

- 8:00 to 9:00 p. m.—Lecture on Mexico by Mrs. W. A. Low of Modesto, Calif. Musical numbers furnished by Dr. and Mrs. W. A. Low and others.

TUESDAY, AUGUST 25—

- 8:00 to 9:00 p. m.—Musical numbers furnished by prominent musicians of Long Beach, Calif., including Mrs. King, reader; Miss Mary Baird, pianist; Miss Geraldine Hill, vocalist; Mrs. Stover, cornetist; Miss Roberta Kirkpatrick, violinist; Mrs. Chis, pianist and Miss Winifred Cook, whistler.

WEDNESDAY, AUGUST 26—

- 8:00 to 9:00 p. m.—Musical program in charge of Mr. E. Hamm.

THURSDAY, AUGUST 27—

- 8:00 to 9:00 p. m.—Exposition of the Whole Bible Sunday School Lesson by Miss Winifred Rouzee; Miss Edna Donner, soloist.

FRIDAY, AUGUST 28—

- 7:00 to 8:00 p. m.—Exposition of the International Sunday School lesson by Rev. John H. Hubbard.

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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

MONDAY, AUGUST 24—

- 4:00 to 5:30 p. m.—Artists appearing, Ruth Leonardi, woman tenor; Dora Lindsey, Scotch songs, Mr. Lindsey, accompanist; Karl Brandenburg, tenor; Olga Trumbull quartet consisting of Sylvia Harding, and Cleo Rundle, violinists, Mary Williams, pianist and Olga Trumbull, cellist; Virginia Townsend, 8-year-old reader; Lynn Townsend, 6-year-old reader; Eve Unsell, talk on Scenario writing from the standpoint of a scenario writer.

THURSDAY, AUGUST 27—

- 4:00 to 5:00 p. m.—Artists appearing, Emma Kimmel, soprano; Amado Fernandez, (tenor of the Golden Voice); Agnes Buisseret, accompanist; Karl Brandenburg, tenor; Lutie Burke, accompanist; Sylvia Szymanski, (the blind cook); and Elsie Manion, solo violinist.
 5:00 to 5:30 p. m.—Freeman Lang's half hour.

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REV. ROBERT FREEMAN, D.D., Pastor

G. ANTON POHLMAN, Announcer

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:30 a. m.—Tower chimes and announcements.
 11:00 a. m.—Sermon by Rev. Herbert Booth Smith, D.D., pastor Immanuel Presbyterian Church, Los Angeles. Soloist, Blanche McTavish Smith, contralto. Sibley G. Pease at the organ.

WEDNESDAY, AUGUST 26—

- 7:30 p. m.—Tower chimes and announcements.
 7:45 p. m.—Prayer meeting led by Rev. James Leishman.
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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

DAILY EXCEPT SUNDAY—

10:00 to 11:00 a. m.—Daily shopping tour—Helpful hints in household economy, broadcast by Arays Anderson.

5:30 to 6:00 p. m.—The Press-Telegram radiocast of late news, sports.

6:00 to 6:30 p. m.—The amusement bulletin and programs.

6:30 to 7:00 p. m.—The Virginia Hotel Trio.

EVERY TUESDAY AND FRIDAY—

5:30 p. m.—James H. Harvey, Pine Avenue Pier, fishing oracle, in a talk on deep sea fishing.

SUNDAY, AUGUST 23—

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

9:00 to 11:00 p. m.—The Echophone Radio station program.

MONDAY, AUGUST 24—

8:00 to 8:10 p. m.—Dr. Frank McCoy, health talk.

8:10 to 9:00 p. m.—The Press-Telegram program presenting concert under auspices of the Community Service.

10:00 to 10:30 p. m.—The Majestic Dance orchestra, under direction of Freddie Carter.

10:30 to 11:00 p. m.—The Virginia Hotel orchestra, under direction of Ted Henkel.

TUESDAY, AUGUST 25—

8:00 to 9:00 p. m.—The Press-Telegram program presented by William Conrad Mills.

9:00 to 10:00 p. m.—The Echophone Radio station program.

10:00 to 10:30 p. m.—The Majestic Dance orchestra.

10:30 to 11:00 p. m.—The Virginia Hotel Ballroom orchestra.

WEDNESDAY, AUGUST 26—

8:15 to 9:00 p. m.—The Press-Telegram program presented by L. D. Frey.

8:00 to 8:15 p. m.—Dewey Longworth, in practical lesson "How to Play GOLF."

10:00 to 10:30 p. m.—The Majestic Dance orchestra.

10:30 to 11:00 p. m.—The Virginia Hotel Ballroom orchestra.

THURSDAY, AUGUST 27—

Silent after amusement bulletin.

FRIDAY, AUGUST 28—

8:00 to 9:00 p. m.—The Press-Telegram concert presented by Mrs. T. J. Lockhart.

10:30 to 11:00 p. m.—The Virginia Hotel orchestra.

SATURDAY, AUGUST 29—

7:00 to 7:30 p. m.—Donn Crockett and Johnny Secrist program for Markwell Salt Water Taffy Shop.

8:00 to 9:00 p. m.—The Press-Telegram program presented by H. R. Klockseim, tenor soloist.

10:00 to 10:30 p. m.—The Majestic Dance orchestra.

10:30 to 11:00 p. m.—The Virginia Hotel Ballroom orchestra.

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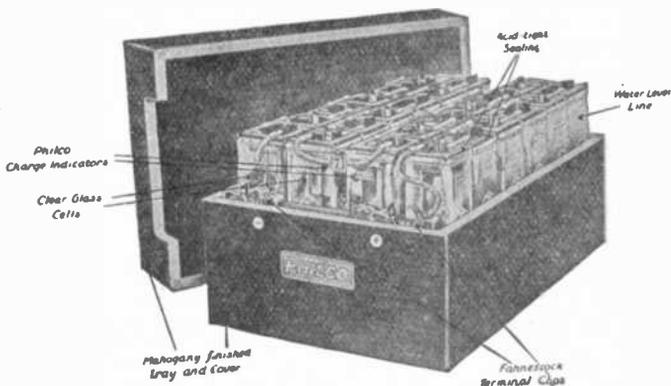
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DAILY EXCEPT SUNDAY—

10:30 a. m.—"Ye Towne Cryer" and amusement service.

12:00 Noon—Time Signals from Naval Observatory.

5:30 to 6:15 p. m.—Children's Hour.

6:15 p. m.—Baseball scores.

DAILY EXCEPT SUNDAY AND FRIDAY—

6:30 to 6:40 p. m.—"Ye Towne Cryer."

1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel orchestra.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

10:30 a. m.—Ye Towne Cryer and Amusement Information Service; U. S. Weather Forecast.

11:00 a. m. to 12:00 noon—Un denominational and non-sectarian church service. Talk, "Co-workers With God," by Dr. Thomas F. Day, formerly professor of Hebrew, Theological Seminary San Anselmo, and now assistant pastor 1st Presbyterian Church, San Francisco.

2:00 to 3:00 p. m.—Sunday Concert by Mrs. Lois Stilson Miller in children's songs.

3:00 p. m.—Funnies from the Chronicle by Big Brother.

6:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.

6:30 to 7:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

8:00 to 8:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

8:30 to 10:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, Wm. Schwartzman, conducting.

MONDAY, AUGUST 24—

12:30 p. m.—Organ recital by Theo. J. Irwin.

2:00 to 3:00 p. m.—Program from Loew's Warfield Theater.

3:30 to 4:00 p. m.—Soloists from Reg. Code's Dance Orchestra.

5:30 to 6:15 p. m.—Children's Hour stories by Big Brother of KPO.

6:40 p. m.—Waldemar Lind and the States Restaurant Orchestra.

7:00 p. m.—Rudy Seiger's Fairmont Hotel Concert Orchestra.

8:00 to 10:00 p. m.—Studio program.

10:00 to 11:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.

TUESDAY, AUGUST 25—

12:30 p. m.—Organ recital by Theo. J. Irwin.

2:30 to 3:30 p. m.—Matinee program.

3:30 to 4:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

5:30 to 6:15 p. m.—Children's Hour stories by Big Brother of KPO.

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, Wm. Schwartzman, conducting.

8:00 to 9:00 p. m.—Program given by the Shrine Chanters.

9:00 to 10:00 p. m.—Program of popular music featuring the Avon String Quintet.

10:00 to 11:00 p. m.—Jack Coakley's Cabirians playing at the Cabiria Cafe.

WEDNESDAY, AUGUST 26—

12:30 p. m.—Organ recital by Theo. J. Irwin.

2:30 to 3:30 p. m.—Duke Kamokus Royal Hawaiians.

5:30 p. m.—Children's Hour stories by Big Brother of KPO.

6:40 p. m.—Waldemar Lind and the States Restaurant Orchestra.

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, Wm. Schwartzman, conducting.

8:00 to 9:00 p. m.—Program through the courtesy of the Atwater-Kent Company.

9:00 to 10:00 p. m.—Dance music by the Goodrich Silvertown Cord Orchestra.

10:00 to 11:00 p. m.—Waldemar Lind and the States Restaurant Orchestra.

THURSDAY, AUGUST 27—

12:30 p. m.—Organ recital by Theo. J. Irwin.

2:30 to 3:30 p. m.—Matinee Program.

3:30 to 4:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

5:30 to 6:15 p. m.—Children's Hour stories by Big Brother of KPO.

6:40 p. m.—Waldemar Lind and the States Restaurant Orchestra.

7:00 to 7:30 p. m.—Rudy Seiger's Fairmont Hotel Orchestra, Wm. Schwartzmann, conducting.

8:00 to 9:00 p. m.—Program given through the courtesy of the Caswell Coffee Company.

9:00 to 10:00 p. m.—Program from the Opera Narcissa by Mary Carr Moore.

10:00 to 11:00 p. m.—Jack Coakley's Cabirians playing at the Cabiria Cafe.

FRIDAY, AUGUST 28—

12:45 p. m.—Talk from the Commonwealth Club Luncheon at the Palace Hotel.

1:30 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.

2:30 to 3:30 p. m.—Special program for the reception of the visiting ladies to the Radio Exposition.

6:00 p. m.—Ye Towne Cryer, Baseball Scores, Stock quotations and Fishermen's information.

6:15 p. m.—Program from Loew's Warfield Theater.

7:00 to 7:30 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe, director.

8:00 to 11:00 p. m.—Palace Hotel dance and concert orchestras.

SATURDAY, AUGUST 29—

2:30 to 3:30 p. m.—Matinee program.

3:30 to 5:30 p. m.—Palace Hotel Dance and Concert Orchestras.

5:30 to 6:15 p. m.—Program from Loew's Warfield Theater.

6:30 p. m.—Ye Towne Cryer and Amusement Information Service.

6:35 p. m.—Waldemar Lind and the States Restaurant Orchestra.

8:00 to 12:00 p. m.—Jack Coakley's Cabirians playing at the Cabiria Cafe.

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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

DAILY EXCEPT SATURDAY AND SUNDAY—

9:00 to 9:50 a. m.—Vocal and instrumental selections.
9:50 to 10:00 a. m.—News of the theatres.
10:00 to 10:30 a. m.—Vocal and instrumental selections.
10:30 to 10:45 a. m.—News bulletins from the San Francisco bulletin.
10:45 to 11:30 a. m.—Vocal and instrumental selections.
2:00 to 2:30 p. m.—Vocal and instrumental selections.

SUNDAY, AUGUST 23—

5:00 to 6:30 p. m.—Studio program given by Al Murphy's orchestra from the La Hacienda Cafe.

MONDAY, AUGUST 24—

..... to p. m.—Piano selections: Walter Smith. Banjo quartet: From the Modern School of Music. Vibrations from from the banjos. Vocal solos: Gertrude Jacoby, Mezzo soprano. Flexotone solos: Tom Maino Jr. Tenor solos: Fay C. Beal. Reading: Sadie Wakefield Hooper, child artist. Whistling selection: Harrison J. Kolb. Mezzo soprano solos: Gertrude Jacoby. Vocal solos: Nita Mitchell. Piano solos: Rebecca Nacht. Readings: Sadie Wakefield Hooper. Whistling selections: Harrison J. Kolb. Baritone solos: Joseph Detwiler. Vocal selections: Ann Grey. Piano selections: Rebecca Nacht. Vocal selections: Nita Mitchell.

WEDNESDAY, AUGUST 26—

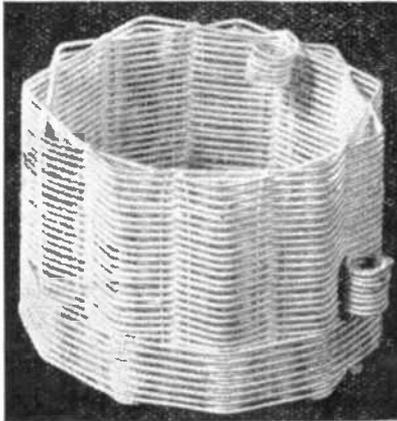
8:00 to 10:00 p. m.—Studio program given by Harry Hume and Jimmie Raymond, the after dinner boys, assisted by several other artists of jazz.

THURSDAY, AUGUST 27—

6:30 to 7:30 p. m.—Dinner hour concert given by Al Murphy's orchestra from the La Hacienda Cafe.

FRIDAY, AUGUST 28—

..... to p. m.—Piano solos: Walter Smith. Baritone solos: Joseph Detwiler. Piano solos: Sam Rodetsky. Vocal selections: Francita Chavez, 12 years, child artist accompanied by Henrietta Schwartz, age 11 years. Selections by "Mahood's Syncopators." Dowd Seid Trio: Popular selections. Readings: Sadie Wakefield Hooper, child artist.
9:00 to 10:00 p. m.—Studio program "Royal Order of Smoked Herring."
10:00 to 10:45 p. m.—Program by Harvey's popular entertainers.



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WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

2:30 to 4:30 p. m.—Concert, Civic Auditorium.

4:30 to 5:00 p. m.—Music program from Kohler & Chase Ampico studios, featuring Theodore Strong at the Welte Philharmonic Pipe Organ.

6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra, Drury Lane, Hotel Whitcomb: Selections from the Pink Lady (Caryll), Badner Badln Waltz (Komzak), Minuet (Haezel), Four Indian Love Lyrics (Woodforde-Finden).

8:00 to 10:00 p. m.—Concert by Bem's Little Symphony Orchestra, Radio Trade Exposition, Civic Auditorium; Intermission soloist, Radio Trade Exposition, Civic Auditorium.

10:00 to 12:00 p. m.—Dance music by Paul Kelli's Orchestra, Il Trovatore Roof Garden Cafe.

MONDAY, AUGUST 24—

12:00 to 12:15 p. m.—inspirational Talk.

5:30 to 6:30 p. m.—Mac and His Gang.

6:30 to 7:00 p. m.—Jo Mendel and his Pep Band from the Lido Cafe

7:00 to 7:30 p. m.—Cressy Solomon Dinner hour jazz.

8:00 to 9:00 p. m.—Around the Camp Fire with Mac, Civic Auditorium.

9:00 to 10:00 p. m.—Concert, Civic Auditorium.

TUESDAY, AUGUST 25—

2:30 to 4:30 p. m.—Jo Mendel and his Pep Band from the lido Cafe. Intermission solos, Civic Auditorium.

6:30 to 7:00 p. m.—Harry McKinley singing popular songs.

7:00 to 7:15 p. m.—Talk by J. M. Cunningham, bond department, Anglo California Trust Co.

8:00 to 10:00 p. m.—Radio Trade Exposition, Civic Auditorium, City of Paris players. Baron Keyes and the Cuckoos. Intermission solos.

9:30 to 11:00 p. m.—Dance music by Paul Kelli's Orchestra, Il Trovatore Roof Garden Cafe.

WEDNESDAY, AUGUST 26—

4:00 to 5:00 p. m.—Tea Hour music by Bert Pagnini's San Franciscans Guanduja Cafe.

6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra, Il Trovatore Roof Garden Cafe.

8:00 to 9:00 p. m.—Concert by Bem's Little Symphony Orchestra, Drury Lane, Hotel Whitcomb. 9:00 to 9:30 p. m.—Hollywood studio gossip, intimate glimpses of movie favorites by Ernie Pagano.

9:30 to 11:00 p. m.—Weekly meeting of the KFRC Cuckoo Club.

11:00 p. m. to 1:00 a. m.—Paul Kelli's orchestra, Il Trovatore, Roof Garden Cafe. Intermission solos by Cuckoo Club guests.

THURSDAY, AUGUST 27—

4:00 to 5:00 p. m.—Tea Hour music Sunset Cafeteria, 40 O'Farrell St., courtesy of Mr. J. F. Douglas, Geneva Waters Baker, violinist and director.

6:30 to 7:00 p. m.—Dinner hour program by Leo Fiast, Inc.

7:00 to 7:15 p. m.—Leonard & Holt program by Scott Blakeley.

8:00 to 10:00 p. m.—Paul Kelli's Orchestra from Il Trovatore Roof Garden Cafe. Intermission solos.

FRIDAY, AUGUST 28—

4:00 to 5:00 p. m.—Tea Hour music.

6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra, Drury Lane, Hotel Whitcomb.

8:00 to 9:00 p. m.—Concert by Bem's Little Symphony Orchestra, Drury Lane, Hotel Whitcomb.

9:00 to 10:00 p. m.—Studio program.

10:00 to 11:00 p. m.—Paul Kelli's Orchestra playing from Il Trovatore Roof Garden Cafe. Intermission solos by Baron Keyes.

11:00 to 12:00 p. m.—Midnight Follies courtesy of City of Paris Radio salon.

SATURDAY, AUGUST 29—

12:00 to 12:15 p. m.—Inspirational Talk.

5:30 to 6:30 p. m.—Mac and his Gang.

6:30 to 7:30 p. m.—Wilt Gunzendorfer's Dance Band playing at Drury Lane, Hotel Whitcomb

8:00 to 9:30 p. m.—Play by the Theater Arts Guild.

9:30 p. m. to 1:00 p. m.—Wilt Gunzendorfer's Hotel Whitcomb Dance Band.

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OAKLAND, CALIFORNIA

WEEK COMMENCING MONDAY, AUGUST 24, 1925

MONDAY, AUGUST 24—

8:00 to 9:10 p. m.—Studio program broadcast through the courtesy of the Piggly Wiggly Stores of Oakland.

9:13 p. m.—Regular weekly meeting of the Lake Merritt Ducks.

TUESDAY, AUGUST 25—

7:00 to 7:30 p. m.—News items.

Silent after 7:30 p. m.

WEDNESDAY, AUGUST 26—

8:00 to 9:00 p. m.—Educational program. 1, Interpretation of national and international news of the week; Ad Schuster; 2, Piano solos; 3, Talk on Music and Musicians, Roy Harrison Danforth; 4, Illustrative piano solo, M. Tallandier; 5, Tribune's weekly book review, Harry Noyes Pratt; 6, Piano solo, M. Tallandier; 7, Concluding address on "Safety."

9:10 to 10:00 p. m.—Studio program by the Durant Motor Company of California: 1, Instrumental selections, The Durant String Instrumentalists; 2, Vocal selections, Mabel Seroy Keeney; 3, Instrumental selections; 4, Vocal selections, Miss Rose Frederick, Rebecca Nacht, pianist; 5, Instrumental selections, The Durant String Instrumentalists; 6, Vocal selections, Irwin Johnson, baritone; 7, Vocal selections, Mabel Seroy Keeney; 8, Instrumental selections, The Durant String Instrumentalists; 9, Vocal selections, Irwin Johnson, baritone; 10, Instrumental selections, The Durant String Instrumentalists.

10:00 to 11:30 p. m.—Music by Tom Gerunovich and his Ballroom Entertainers, broadcast from Sweet's Ballroom.

THURSDAY, AUGUST 27—

7:00 to 7:30 p. m.—News, weather, markets.

Silent after 7:30 p. m.

FRIDAY, AUGUST 28—

2:30 to 4:00 p. m.—Program presented by the Avenue Terrace department of the E. B. Field Company of Oakland:

4:00 to 4:30 p. m.—Baseball scores from KLX.

4:30 to 5:30 p. m.—Continuation of broadcasting of the program presented at the Pacific Radio Exposition in San Francisco by the Avenue Terrace Department of the E. B. Field Realty Company of Oakland, broadcasting by direct wire from the exposition: 1, Ten Minutes of Jazzmania, Gambol Brothers Three Man Band; 2, Instrumental selections, Instrumental Trio; 3, Vocal selections, Mayme La Rue, woman baritone, Howard Eastwood, accompanist; 4, Cello solos, selected, Dorothy Dukes Dimm; 5, Instrumental selection, Instrumental Trio; 6, Vocal selections, Mayme La Rue, woman baritone, Howard Eastwood, accompanist; 7, Instrumental selections, Instrumental Trio.

6:00 to 7:00 p. m.—Uncle Joe and his gang, broadcast from the KLX studio.

7:00 to 7:30 p. m.—News items, weather, markets.

8:00 to 10:30 p. m.—Special program arranged and presented at the radio show by KLX and broadcast by direct wire from the show at the Municipal Auditorium in San Francisco through KLX.

SATURDAY, AUGUST 29—

3:15 p. m.—Baseball.

7:00 to 7:30 p. m.—News, weather, markets.

Silent after 7:30 p. m.

K T A B—Tenth Ave. Baptist Church—215 Meters

1000 WATTS, OAKLAND, CALIFORNIA
ADA MORGAN O'BRIEN, Director

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

10:00 a. m.—Bible lecture by Prof. E. G. Linsley of Mills College, also director of Chabot Observatory.

11:00 a. m.—Morning church services. Special music by choir under direction of Dr. C. D. Goodman. Ida M. Fording, organist. Address by Rev. Geo. Phillips, pastor.

3:00 p. m.—Afternoon concert. Organ recital, Ida M. Fording; soprano solos, Helen Holmes.

7:45 p. m.—Evening church services.

MONDAY, AUGUST 24—

8:00 to 10:00 p. m.—Program broadcast over KTAB from San Francisco Civic Auditorium during the Pacific Radio Exposition.

TUESDAY, AUGUST 25—

8:00 to 10:00 p. m.—"Mutual" Night. Mutual male quartet. Cornet solo, Grance Adams East; saxophone solo, Mrs. William Empey; violin solo, Dorothy Dunnyon.

WEDNESDAY, AUGUST 26—

9:00 to 11:00 p. m.—Studio program. Pacific Trio, Festo Aspre, directing, contralto, Martha Jane Tackabury; baritone, Emile Rovegno; pianist, Gladys Boyes.

THURSDAY, AUGUST 27—

9:00 to 11:00 p. m.—Scientific Night. Prof. E. G. Linsley in charge. Musical program in charge of C. H. Stone.

FRIDAY, AUGUST 28—

8:00 to 10:00 p. m.—"Breuner" Night. KTAB string quartet, Orley See, director; Victor Vogel, bass; Mrs. Gwynn Jones Tiebault, contralto; James Zeigler, baritone.

SATURDAY, AUGUST 29—

Silent.

K G O—Pacific Coast Station—361.2 Meters

GENERAL ELECTRIC COMPANY, OAKLAND, CALIFORNIA

DAILY EXCEPT SUNDAY—

- 7:15 to 7:30 a. m.—Health Training Exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health Training Exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon Concert, courtesy Pacific States Electric Company.
DAILY EXCEPT SATURDAY AND SUNDAY—
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores and news items.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 11:00 a. m.—Service of the First Baptist Church, Oakland; Rev. John Snape, D.D., pastor.
 3:30 p. m.—Silent. KGO Little Symphony orchestra on vacation.
 7:30 p. m.—Service of the First Baptist Church, Oakland; Rev. John Snape, D.D., pastor.

MONDAY, AUGUST 24—

- 7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 3:00 to 4:00 p. m.—Program from the Wiley B. Allen Company studio, San Francisco.
 5:30 to 6:00 p. m.—Aunt Betty stories and the KGO Kidlies' Klub—Ruth Thompson.
 6:00 to 7:00 p. m.—Dinner concert from the Wiley B. Allen Company studio, San Francisco.
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores, and news items.
 8:00 p. m.—Educational program. Health talk, “Reviving the Apparently Drowned”; “Physical Culture for the Family,” Hugh Barrett Dobbs; Agricultural Course, “A Look into the Beehive,” Professor E. R. de Ong, Assistant Entomologist, College of Agriculture, University of California; “Symposium on the New Education,” by Williams Institute, Berkeley; Travel Talk; “Rome,” Helene Phillips; “Chats About New Books,” Joseph Henry Jackson; “From a Composer's Workshop—Voice,” Arthur S. Garbett; “Inside Dope on Curing Automobile Ills,” Louis P. Signer; music by Arion Trio.

TUESDAY, AUGUST 25—

- 7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 4:00 to 5:30 p. m.—Concert orchestra, Hotel St. Francis, San Francisco.
 6:00 to 7:00 p. m.—Dinner concert from the Wiley B. Allen Company studio, San Francisco.
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores, and news items.
 8:00 p. m.—Program given by KGO Studio Staff and Arion Trio.
 9:50 p. m.—“Radio Breezes” by K. C. B., famous newspaper columnist.

WEDNESDAY, AUGUST 26—

- 7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 3:00 to 4:00 p. m.—Program broadcast from Civic Auditorium, San Francisco, where the Second Annual Pacific Radio Exposition and Convention, conducted by the Pacific Radio Trades Association, is being held.
 4:00 to 5:30 p. m.—Concert orchestra, Hotel St. Francis, San Francisco.
 5:30 p. m.—Mr. Fix-it.
 6:00 to 7:00 p. m.—Dinner concert, courtesy Baldwin Piano Company.
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores, and news items.
 8:00 p. m.—Program broadcast from Civic Auditorium, San Francisco, where the Second Annual Pacific Radio Exposition and Convention, conducted by the Pacific Radio Trades Association, is being held. Organ recital by Marshall Geiselman.

THURSDAY, AUGUST 27—

- 7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 4:00 to 5:30 p. m.—Concert orchestra, Hotel St. Francis, San Francisco.
 5:30 to 6:30 p. m.—George W. Ludlow, “Friend to Boys.”
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores, and news items.

K G O—Pacific Coast Station—361.2 Meters

8:00 p. m.—“Sun-Up,” a play in three acts, by Lula Vollmer, presented by the KGO Players under the direction of Wilda Wilson Church. Music by the Arion Trio.
 10:00 p. m. to 1:00 a. m.—Dance music program by Ben Black’s orchestra from Tait’s Dancing Palace, San Francisco.

FRIDAY, AUGUST 28—

7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 10:50 a. m.—Common Sense Exercises for Women; Harry Maloney.
 11:10 a. m.—Prudence Penny home-making talks.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 1:30 p. m.—N. Y. and S. F. stock reports and weather.
 3:00 to 4:00 p. m.—Concert, auspices Baldwin Piano Company; Fawn Post Trowbridge, soprano; Herbert Linden, tenor; Mrs. Linden, accompanist; Jerome Damonte, accordion soloist.
 4:00 to 5:30 p. m.—Concert orchestra, Hotel St. Francis, San Francisco.
 5:30 to 6:00 p. m.—Girls’ Half Hour, conducted by Esther Wood Schneider.
 6:00 to 7:00 p. m.—Dinner concert, courtesy Baldwin Piano Company.
 7:00 p. m.—Final reading, stock reports, weather, S. F. produce news, baseball scores, and news items.
 Silent Night.

SATURDAY, AUGUST 29—

7:15 to 7:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:15 to 8:30 a. m.—Health training exercises; Hugh Barrett Dobbs.
 8:30 a. m.—“Daily Strength”—Cheerio.
 11:30 a. m. to 1:00 p. m.—Luncheon concert, courtesy Pacific States Electric Company.
 12:30 noon—Final reading, stock reports and weather.
 4:00 to 5:30 p. m.—Concert orchestra, Hotel St. Francis, San Francisco.
 8:00 p. m.—Weekly “Sport Review” by Al Santoro.
 8:10 p. m.—Part One: Given by San Jose High School Band; George T. Matthews, director. Ted Duncan, saxophone soloist. Part Two: Olga Leeman, soprano; Gladys Steele and Norman Deans, steel guitars; Stewart Brady, boy soprano; Frank Clark, pianist; A. Bernice Tutt, contralto; Antone Tomic, concertina soloist.

THIS WEEK SPECIALS AT O. K. SMITH COMPANY

*Clearance Sale of Second-hand and Slightly Used
 Standard Radio Sets Reconditioned and
 Absolutely Guaranteed*

Kennedy 3-tube sets.	List price \$75.	Special at.....	\$35.00
Kennedy 5-tube sets.	List price \$146.00.	Special at.....	75.00
Atwater Kent 5-tube sets.	List price \$85.00.	Special at.....	65.00
Malone Neutrodyne sets.	List price \$175.00.....		69.50
Radiola Grand sets.	List price \$350.00.	Special at.....	75.00
Federal 3-tube sets.	List price \$110.00.	Special at.....	35.00
Echophone, in beautiful console cabinet.....			75.00
Ware, in beautiful console cabinet.....			75.00
New Music Master Cabinet Speakers, regular \$35.00.....			17.50

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834 South Broadway

Largest Exclusive Radio Dealers in Los Angeles

K J R—Northwest Radio Service Co.—384.4 Meters

TERMINAL SALES BLDG., SEATTLE, WASHINGTON

1000 Watts
VINCENT L. KRAFT, Managing Director

Pacific Standard Time
ROSS W. SWIFT, Studio Director

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

DAILY FEATURES—DAILY EXCEPT SUNDAY—

- 1:00 to 1:15 p. m.—A. A. Housman and Company present the closing quotations on grain, sugar, cotton, stocks and bonds.
- 1:15 to 2:00 p. m.—The Post-Intelligencer midday organ concert by remote control from the Columbia Theatre, R. V. Hainsworth, organist.
- 2:00 to 2:15 p. m.—The Daily home economics talk by Bernice Redington.
- 2:15 to 2:30 p. m.—U. S. weather reports and the daily Post-Intelligencer produce market report, compiled by Charles E. Hunt, commercial editor.
- 6:00 to 6:30 p. m.—What's Doing at the Theatres and baseball results.
- 8:25 p. m.—U. S. weather reports.

MONDAY, AUGUST 24—

- 7:00 to 8:25 p. m.—Sears, Roebuck and Company courtesy program.
- 8:30 to 10:00 p. m.—Post-Intelligencer courtesy program.
- 10:00 to 11:00 p. m.—Dance program by Gordon Kilbourne and his orchestra from Down's Ballroom.

TUESDAY, AUGUST 25—

- 10:30 to 11:30 p. m.—Morning studio program, courtesy Puget Sound Savings and Loan Association.
- 8:30 to 10:00 p. m.—Courtesy program by Puget Sound Savings and Loan Association.

WEDNESDAY, AUGUST 26—

- 7:00 to 8:25 p. m.—Sears, Roebuck and Company studio program.
- 8:30 to 10:00 p. m.—Post-Intelligencer studio program.

THURSDAY, AUGUST 27—

- 8:30 to 10:00 p. m.—Puget Sound Savings and Loan Association courtesy program.
- 10:30 to 12:00 midnight—The Post-Intelligencer presents the weekly meeting of the Keep Joy Radiating Order of the Bats in their Belfry in the Terminal Sales Building.

FRIDAY, AUGUST 28—

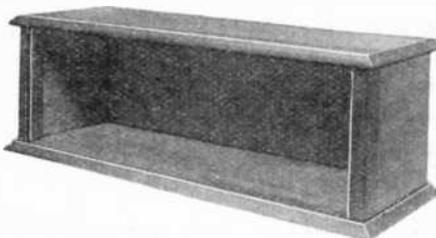
- 10:30 to 11:30 a. m.—Morning studio program by Puget Sound Savings and Loan Association.
- 8:30 to 10:00 p. m.—Post-Intelligencer studio program.
- 10:00 to 11:00 p. m.—Dance program by Gordon Kilbourne and his orchestra from Down's Ballroom.

SATURDAY, AUGUST 29—

- 8:30 to 10:00 p. m.—The L. C. Warner Company courtesy program.

SUNDAY, AUGUST 30—

- 11:00 a. m.—Services of the First Methodist Episcopal Church, J. Ralph Magee, pastor.
- 3:30 p. m.—Post-Intelligencer broadcast of the municipal band concert from Woodland Park.
- 7:00 p. m.—Services of the First Methodist Episcopal Church, with organ concert by Mrs. Montgomery Lynch; J. Ralph Magee, pastor.



No. 100 Series Radio Cabinets

We carry a large stock of these Cabinets for immediate delivery in the following sizes:

No.	Size	Price	No.	Size	Price
101	7x12x8	\$3.00	110	7x24x10	\$4.50
102	7x12x10	3.25	111	7x26x8	4.75
103	7x14x8	3.25	112	7x26x10	5.00
104	7x14x10	3.50	113	7x27x8	5.00
105	7x18x8	3.75	114	7x27x10	5.25
106	7x18x10	4.00	115	7x28x8	5.25
107	7x21x8	4.00	116	7x28x10	5.50
108	7x21x10	4.25	117	7x30x8	6.00
109	7x24x8	4.25	118	7x30x10	6.50

—A well constructed cabinet of Philippine mahogany throughout. Ends grooved to slide panel in. Lid hinged at back. Moulded top and base.

Above prices on unfinished cabinets F. O. B. Los Angeles. Terms cash with order.

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Less Accessories

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Five-Tube Set in Cabinet
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LOS ANGELES

K G W—The Morning Oregonian—491.5 Meters

610 KILOCYCLES—PORTLAND, OREGON—PACIFIC TIME

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

DAILY EXCEPT SUNDAY—

11:30 a. m.—Weather forecast; 12:30 to 1:30 p. m., Rose City Trio courtesy Pacific States Electric Company.

7:30 to 8:00 p. m.—Weather, market and police reports, news items and baseball scores.

SUNDAY, AUGUST 23—

10:15 to 12:00 noon—Services by wire telephony from Church of Our Father (Unitarian); 7:25 to 9:00 p. m., services by wire telephony from First Presbyterian Church.

MONDAY, AUGUST 24—

6:00 to 7:00 p. m.—Claude Johnson and his Baker Theatre orchestra.

TUESDAY, AUGUST 25—

After 8 p. m. silent for long distance reception.

8:00 to 9:00 p. m.—Program by Portland Restaurant Industry; 9 to 10 p. m., General Cord orchestra, courtesy Woolach & Powell; 10 to 11 p. m., Jackie Souders' orchestra by wire telephony from Indian Grill of Multnomah Hotel.

WEDNESDAY, AUGUST 26—

10:00 to 11:00 p. m.—Concert from Sherman, Clay & Co. studio.

THURSDAY, AUGUST 27—

10:00 p. m. to 12—Dance music by Jackie Souders' orchestra by wire telephony from Indian Grill of Multnomah Hotel.

FRIDAY, AUGUST 28—

9:00 to 10:30 p. m.—Concert from Sherman, Clay & Company studio.

SATURDAY, AUGUST 29—

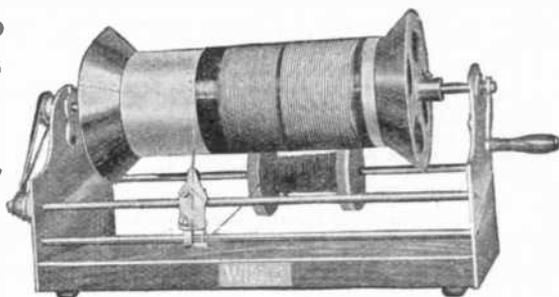
6:00 to 8:00 p. m.—Dance music by Fred Prasp's Portland Hotel orchestra.

An International Union of Radiotelephony has been formed with an office at Geneva, Switzerland. The object of this Union is to establish contact between European radiotelephonic broadcasting interests, eventually extending to other continents centralizing study of broadcasting problems; and following up various projects of broadcasting. The president of this Union is Admiral Carpendale of the British Broadcasting Company.

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On Your Finger
Tips—**

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The winder can be fed and ready to operate in a few seconds.

The WIZARD WIRE WINDER, a light, durable and well-finished device, nicked throughout, has ten speed regulations, which insure the proper handling of all thicknesses of wire and does away with the most difficult of all tasks connected with the building of radio receiving sets. It winds the largest coil required in thirty seconds. An automatic wire feeder makes the device mechanically perfect and renders it impossible to make a rough or uneven coil. The winder is adjustable to any size coil from three-eighths inch to four and one-half inches in diameter.

Price \$9.50

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PHONE HUmbolt 4577

DEALERS—Ask your Jobber for this new, fast-selling item.

It's going over big!

SEND FOR DESCRIPTIVE FOLDER

K O A—Rocky Mountain Broadcasting Station

322.4 METERS—930 KILOCYCLES
GENERAL ELECTRIC COMPANY, DENVER, COLORADO
(Pacific Time)

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

- 10:00 a. m.—Service of Augustana Lutheran church, Denver, Rev. E. G. Knock, pastor; Mrs. Earl P. Martinson, acting organist.
- 3:00 p. m.—Sunday afternoon music hour: Augustana Lutheran Church, Denver.
- 7:00 p. m.—Service of Augustana Lutheran Church, Denver, Rev. E. G. Knock, pastor; Mrs. Earl P. Martinson, acting organist.

MONDAY, AUGUST 24—

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce.
- 11:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 2:00 p. m.—Rialto Theatre musicale.
- 5:00 p. m.—Stocks; markets; livestock; produce; baseball scores; news.
- 5:30 p. m.—Dinner concert, Herbert White and his Silver State orchestra, Brown Palace Hotel, Denver.
- 6:30 p. m.—Sandman's hour.
- 7:00 p. m.—Studio program to be opened by the KOA orchestra with instrumental selections and address: "Trail Blazers of the Rockies," under auspices the Colorado Mountain Club; soprano solos, Elizabeth Jacoway Matthews; piano solos, Helen Pierce Vincent; tenor solos, Royden S. Massey, accompanist, Mrs. Royden S. Massey; and address, "The Best Opportunity Yet," Dr. David Carson Bayless, secretary Humphreys foundation.

TUESDAY, AUGUST 25—

- 10:45 a. m.—Weather; road reports; stocks, markets, livestock and produce.
- 11:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 2:00 p. m.—Rialto Theatre musicale.
- 2:30 p. m.—Matinee for housewives.
- 3:00 p. m.—Fashion review.
- 3:15 p. m.—Cool culinary hints.
- 5:00 p. m.—Stocks; markets; livestock; produce; baseball scores; news.
- 5:30 p. m.—Dinner concert, Herbert White and his Silver State orchestra, Brown Palace Hotel, Denver.
- 6:30 p. m.—News-Times concert.
- Silent Night.

WEDNESDAY, AUGUST 26—

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce.
- 10:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 2:00 p. m.—Rialto Theatre musicale.
- 5:00 p. m.—Stocks; markets; livestock; produce; baseball scores; news.
- 5:30 p. m.—Dinner concert, Herbert White and his Silver State orchestra, Brown Palace Hotel, Denver.
- 6:30 p. m.—Sandman's hour.
- 7:00 p. m.—Studio program, auspices the Ida McKinley Tent No. 3, Daughters of Veterans, Denver. Miscellaneous presentation of patriotic features, classical music, vocal and instrumental, readings and an address: "The Daughters of the Union Civil War Veterans" by Letta Brown, secretary, Ida McKinley Tent No. 3. Artists taking part in the program will be: Mary Frances Biedler, Grace A. Blair, M. C. "Scotty" Whitman, Cora Yegge, Maud Cole, Letta Brown, Holly Southworth, Irene Hubbell Morris, Dora H. Seidler and Leota Rader.
- 9:00 p. m.—Dance program.

THURSDAY, AUGUST 27—

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce.
- 11:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 2:00 p. m.—Rialto Theatre musicale.
- 2:30 p. m.—Matinee for housewives.
- 3:00 p. m.—Fashion review.
- 3:15 p. m.—Cool culinary hints.
- 5:00 p. m.—Stocks; markets; livestock; produce; baseball scores; news.
- 5:30 p. m.—Dinner concert, Herbert White and his Silver State orchestra, Brown Palace Hotel, Denver.
- 7:00 p. m.—Preview of International Sunday school lesson.
- Silent Night.

FRIDAY, AUGUST 28—

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce.
- 11:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 2:00 p. m.—Rialto Theatre musicale.
- 2:30 p. m.—Matinee for housewives.
- 3:00 p. m.—Fashion review.
- 3:15 p. m.—Cool culinary hints.
- 5:00 p. m.—Stocks; markets; livestock; produce; baseball scores; news.
- 5:30 p. m.—Dinner concert, Herbert White and his Silver State orchestra, Brown Palace Hotel, Denver.
- 6:30 p. m.—Book of Knowledge.
- 7:00 p. m.—Open-air concert, Denver municipal band, Henry Sachs, director.

SATURDAY, AUGUST 29—

- 10:45 a. m.—Weather; road reports; stocks; markets; livestock and produce.
- 11:15 a. m.—Organ recital, city auditorium, Denver, by Clarence Reynolds.
- 7:00 p. m.—Open-air concert, Denver municipal band, Henry Sachs, director.
- 9:00 p. m.—Dance program.

K F O A—Pacific Northwest Station—454.3 Meters

RHODES DEPARTMENT STORE, ARCADE SQUARE, SEATTLE, WASHINGTON
(Pacific Time)

CARL E. HAYMOND, Station Director

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

MONDAY, AUGUST 24—

- 12:45 to 1:30 p. m.—The Lions Club luncheon program from the Italian room of the Olympic Hotel.
4:00 to 5:15 p. m.—The Times "Afternoon at Home" program.
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman orchestra by remote control from the Olympic Hotel. Baseball scores.
6:45 to 8:15 p. m.—Sherman, Clay & Company studio program.
8:15 p. m.—Weather report and special announcements.
8:30 to 10:00 p. m.—The Times studio program.

TUESDAY, AUGUST 25—

- 12:30 to 1:30 p. m.—Kiwanis Club luncheon program from the Italian room of the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel concert orchestra.
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman orchestra by remote control from the Olympic Hotel. Baseball scores.
6:45 to 8:15 p. m.—Rhodes Dept. Store studio program, featuring Wm. J. Taggart of the Taggart Motor Co., who will sing special request selections.
8:15 p. m.—Weather report and special announcements.
8:30 to 10:00 p. m.—The Times studio program.
10:00 to 11:30 p. m.—Eddie Harkness and his orchestra playing from the Marine room of the Olympic Hotel.

WEDNESDAY, AUGUST 26—

- 12:30 to 1:30 p. m.—The Rotary Club luncheon program from the Spanish room of the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel orchestra.
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman orchestra by remote control from the Olympic Hotel. Baseball scores.
6:45 to 8:15 p. m.—Hopper Kelly Company studio program.
8:15 p. m.—Weather report and special announcements.
8:30 to 10:00 p. m.—The Times studio program.

THURSDAY, AUGUST 27—

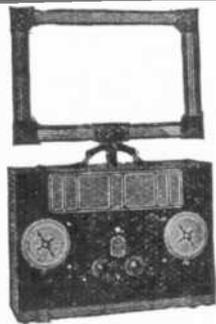
- 12:30 to 1:30 p. m.—Young Men's Business Club luncheon program from the Italian room of the Olympic Hotel.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel concert orchestra. Evening silent.

FRIDAY, AUGUST 28—

- 12:30 to 1:30 p. m.—Seattle Chamber of Commerce program from their new C. of C. building.
4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel concert orchestra.
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman orchestra by remote control from the Olympic Hotel. Baseball scores.
6:45 to 8:15 p. m.—Sherman, Clay & Company studio program.
8:15 p. m.—Weather report and special announcements.
8:30 to 10:00 p. m.—The Times studio program.
10:00 to 11:30 p. m.—Eddie Harkness and his orchestra playing from the Marine room of the Olympic Hotel.

SATURDAY, AUGUST 29—

- 4:00 to 5:15 p. m.—The Times, Wm. F. Hoffman's Olympic Hotel concert orchestra.
6:00 to 6:45 p. m.—Pacific States Electric Co., presenting the Hoffman orchestra by remote control from the Olympic Hotel. Baseball scores. U. S. Civil Service reports.
8:30 to 10:00 p. m.—The Times studio program.
10:00 to 11:30 p. m.—Eddie Harkness and his orchestra playing from the Marine room of the Olympic Hotel.



Here it is

**The NEW RADIOLA
SUPER PORTABLE**

\$203.10 Complete

GOLDEN STATE ELECTRIC CO.

TRinity 4671

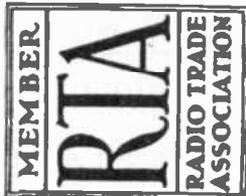
826 So. Flower St.

Los Angeles, Calif.

ARTHUR H. HALLORAN
EDITOR

LAWRENCE MOTT
ASSOCIATE EDITOR

H. W. DICKOW
ADVERTISING MANAGER



RADIO

Established 1917 as Pacific Radio News

*Published Monthly by Pacific Radio Publishing Co., Inc.
Pacific Bldg., San Francisco, California*

RADIO 6XAD AND 6ZW

OFFICE OF THE ASSOCIATE EDITOR
AVALON, CATALINA ISLAND, CALIFORNIA

BRANCH OFFICES
NEW YORK CITY
147 SIXTH AVE.
CHICAGO
1307 HARTFORD BLDG.
BOSTON
18 BOYLSTON ST

May the 19th
1925

Complete
Booter
Aerial
50 feet
6 Booters

Messrs Van Wart & Foreman
Los Angeles

Gentlemen:

Insulations
 and
Head in Tip
Ready to
Install

\$2.50

—
Set of Six
Booters

\$1.00

It affords me a very great deal of pleasure to advise you that I have installed one of your fifty foot Complete Booters aerials - and I find it to be quite everything that you say for it!

At my Experimental Station on this Island I have tried-out almost every known kind of a "gadget" - and the Lord knows how many receivers, of varied-and-sundry kinds. At present I am using a ZENITH Super - and Radio Corporation Super. Prior to erecting the BOOTER I used a single wire - 80' long. WITH.....the Booter, I get more distance and about 30-40% more volume!

This speaks for itself!

You are privileged to use this communication in any way that you see fit.

Cordially yours,
Lawrence Traft

Major-Signal Corps-ORC-USA
 Associate Editor - "RADIO"
 2nd V-P Radio Trade Association

See Schwabacker-Frey Exhibit
 at the San Francisco Show

VanWart & Foreman
Manufacturers and Distributors of
RADIO EQUIPMENT
 & PADDACK PRODUCTS
 374 No. San Pedro St. Los Angeles



Trade-Mark Copyright
Patent Pending

FREE DEMONSTRATIONS

On your Radio, in your home,
with

Radio's Outstanding Development MICRO-TUNER

To see and hear is to be convinced! Shuts out interference from stations not wanted! Provides perfect reception of Distance as well as Locals! Doubles the efficiency of all radio sets.

ONLY \$12.00

Demonstration, Day or Evening, by Dealers, or

FORREST MFG. CO., Makers of Micro-Tuner

5353 Lexington Ave., Hollywood, Calif.

Phone HEMPstead 4944

Dealers Write to

KIERULFF & RAVENSCROFT

RADIO EQUIPMENT

1630 So. Los Angeles St.
Los Angeles

Phone WEStmore 1317



654 Howard St.
San Francisco

Phone GARfield 5453

Exclusive Distributors for Pacific Coast

"You Might as Well
Have the Best"

Marathon

Long Distance Tubes

You can pick Marathons from a case at random and you will have a set of Matched tubes.

Distributed in Los Angeles by

Union Hardware & Metal Co.

Reiman Wholesale Electric Co.

C. W. Smith Co.

California Wholesale Electric Co.

413 E. 11th St., Los Angeles

Northern Mfg. Co., Newark, N. J.

Makers



Both Types

W F A A—Dallas News-Journal—475.9 Meters

(Working for All Alike)
630 KILOCYCLES—DALLAS, TEXAS—PACIFIC TIME
(PACIFIC STANDARD TIME)

WEEK COMMENCING MONDAY, AUGUST 24, 1925

MONDAY, AUGUST 24—

4:30 to 5:30 p. m.—Artie Collins and his Ozark Inn Orchestra.
6:30 to 7:30 p. m.—Sears-Roebuck Agricultural Foundation program.

TUESDAY, AUGUST 25—

10:30 to 11:00 a. m.—Beaumont Band of the Magnolia Petroleum Company, playing at the refinery in Beaumont, Dr. Harry Cloud, director.
4:30 to 5:30 p. m.—Frensey Moore and his Black and Gold Serenaders, engaged at Orchard Hill Inn.

6:30 to 7:30 p. m.—Dallas Advertising League in monthly program, Alfonso Johnson, president, master of ceremonies.

9:00 to 10:00 p. m.—Aida Choral Club in musical recital.

WEDNESDAY, AUGUST 26—

After 1:00 p. m. Station WFAA will be silent for the day.

THURSDAY, AUGUST 27—

4:30 to 5:30 p. m.—Lone Star Five's seven-piece orchestra.
6:30 to 7:30 p. m.—Farmers' Friendly Hour, Melodie Club, Miss Maurine Mitchell in charge, for standard and favorite musical selections.
9:00 to 10:00 p. m.—Western Electric Four in string instrument recital.

FRIDAY, AUGUST 28—

2:30 to 3:00 p. m.—Woman's Hour with music and information, all performers and announcer, females.

4:30 to 5:30 p. m.—Tom D. Collins and his Glen Haven String Orchestra.
6:30 to 7:30 p. m.—Dr. James Wood, tenor, and assisting Dallas musicians.

SATURDAY, AUGUST 29—

10:30 to 11:00 a. m.—Health talk; music.

1:30 to 2:00 p. m.—Ukelele and vocal recital, Tom Fowler and Catherine McAdams.

4:30 to 5:30 p. m.—Carl D. Green and his string orchestra.

6:30 to 7:30 p. m.—Jack A. Davis, pianist in recital.

9:00 to 10:00 p. m.—Adolphus Hotel Orchestra, playing in Bambooland ballroom, the roof garden.

SUNDAY, AUGUST 30—

4:30 to 5:30 p. m.—Radio Bible Class. Dr. William M. Anderson, pastor of the First Presbyterian Church, teacher; Bible study and Gospel song.

6:00 to 7:00 p. m.—Service of Westminster Abbey Presbyterian Church, broadcast from Jefferson Hotel roof garden, Dr. L. D. Young, preaching.

7:00 to 9:00 p. m.—Little Symphony Orchestra of Grace Methodist Episcopal Church, South, playing secular music, Earle D. Behrends, directing.

K T H S—The New Arlington Hotel—374.8 Meters

"KUM TO HOT SPRINGS"

CLASS B STATION—750 WATTS—HOT SPRINGS, ARK.

WEEK COMMENCING SUNDAY, AUGUST 23, 1925

SUNDAY, AUGUST 23—

9:00 to 10:15 a. m.—Services of services of the Central Methodist Church, Rev. J. J. Stowe, pastor.

7:15 to 7:25 p. m.—Baseball results.

7:25 to 8:00 p. m.—Classical concert by the New Arlington-Meyer Davis Ensemble, Lon Chassy, conductor.

8:00 p. m.—Dance concert by Rya Mullins and his Whittington Park orchestra.

MONDAY, AUGUST 24—

10:30 to 11:00 a. m.—Markets, weather, music.

7:15 to 7:25 p. m.—Sport review.

7:25 p. m.—Classical recital by the New Arlington-Meyer Davis instrumental quartet.

TUESDAY, AUGUST 25—

10:30 to 11:00 a. m.—Markets, weather, orchestra.

7:00 to 7:10 p. m.—Sport review.

7:25 p. m.—Dance program by the Whittington Park orchestra.

WEDNESDAY, AUGUST 26—

10:30 to 11:00 a. m.—Markets, weather, orchestra.

7:15 to 7:25 p. m.—Sport review.

7:25 p. m.—Concert by the New Arlington Hotel orchestra, Classical and ballad selections.

THURSDAY, AUGUST 27—

10:30 to 11:00 a. m.—Markets, weather, orchestra.

7:15 to 7:25 p. m.—Sport review.

7:25 p. m.—Organ recital by Lawson Reid of the Princess Theatre.

FRIDAY, AUGUST 28—

10:30 to 11:00 a. m.—Markets, weather, music.

7:15 to 7:25 p. m.—Sport review.

7:25 p. m.—Dance concert by Ray Mullins Como Hotel roof garden orchestra.

SATURDAY, AUGUST 29—

10:30 to 11:00 a. m.—Markets, weather, music.

7:15 to 7:25 p. m.—Sport review.

7:25 p. m.—Classical selections by the New Arlington Meyer Davis orchestra, Lon Chassy, directing.

The New Tube Reactivator

It is important to know that by a mechanical process known as reactivation, a thoriated vacuum radio tube which is apparently worn out through continued use or abuse, may be restored to usefulness, and that the restoration of its filament emission may be repeated as often as desired.

Of no less importance however, is the recent improvement in the process which enables the operator to know **when** a tube should be reactivated and to **what degree** its filament emission has been restored **after** the treatment.

This is the feature of the Sterling R-403 Tube Reactivator which is adapted to UV-201-A, O-301-A and UV-199, C-299 tubes. The incorporation of a Sterling filament emission meter in this instrument not only provides testing before and after, but is of further value in tests during reactivation thus making it practicable to modify the treatment of any tube so that the best results can be obtained in each case.

With the R-403 Reactivator is supplied a table which shows high and low test values for both types of tubes.

The R-403 Tube Reactivator is a portable instrument, having a handle on the back; finished in black frostine; size, 6x7½x5 in. high; the meter has a silver-etched dial; tube sockets are nickel finish, and it is supplied with 5 ft. lamp cord with socket.

How to Prevent Losses in Set

The Commerce Department believes high-class American long-range receivers will appeal to a number of distance-seekers in Great Britain. While wireless specialties of American manufacture have not been offered to any extent on the British market because of the barriers against imported radio apparatus, they are expected to make their appearance now that import restrictions have been lifted permitting freer use of foreign-made equipment. The entrance of American equipment into this market will be gradual, Commercial Attache Butler says, depending for success upon the acceptance of American standards by the British radio enthusiasts. American equipment, which is not well known, must make its appeal on a quality basis. It must be offered either on the basis of efficiency or uniqueness or be quoted at a price of unquestionable value.

It is believed that the American sets will have the strongest appeal to the growing number of "fishers" who are daily discarding crystal sets for tube sets. As the mainland is only as large as the states of New York and Pennsylvania combine the twenty-two broadcasting stations have heretofore furnished ample entertainment to owners of small sets. Local reception, however, is giving way to a desire for distance and it is expected that American long-range sets will meet the favor of the distance seekers.

45,000 Listeners-In Read "Radio Doings" Seven Days Each Week

WE HAVE REFILLED OVER —36,000—

Burnt out or weak Tubes in the last year. There must be a reason for the popularity of NATIONAL REFILLS.

ALL TYPES

\$1.25



ALL TYPES

\$1.25

Most dealers carry a stock for immediate replacement—or send your burnt out Tubes direct to us. TESTED 5-WATT TRANSMITTERS—\$3.50

NATIONAL RADIO TUBE CO.

748 14th St.

Dept. 4

San Francisco, Cal.

Radio in Australia

Exports of radio apparatus from the United States to Australia have increased from \$8,513 in 1920, to \$1,052,707 in 1924. This is approximately 17 per cent of last year's total exports of radio sets and parts from the United States to all foreign markets. In 1923, Australia imported from the United States \$210,214 worth of radio apparatus, thus attaining the position of our leading Far Eastern market, from the standpoint of purchases.

The market increase in Australian purchases of radio apparatus from the United States in 1924, as compared with previous years, took place following the change in Australian radio regulations. Prior to this change, which took place July 17, 1924, only sealed radio receivers could be sold and used in Australia. In these sets, the tuning unit was so arranged that it would respond to one wave length only, with a 10 per cent variation on either side, and then it was sealed. Obviously the owner of a sealed set could receive only that material which was broadcast on the particular wave length to which his receiving set was tuned. The new regulations removed this restriction, however, and permitted the sale and use of open receiving sets. Furthermore, restrictions on the importation of receiving sets have been lifted.

Australia is quite well supplied with broadcasting stations. They are all licensed and divided into two classes: "A" and "B." Class "A" licenses are renumeraated from the revenue received from users of receiving sets, while class "B" licensees are those firms or persons who desire to broadcast without remuneration from such revenue. The wave lengths to be assigned range from 250 to 2,000 meters.

All matters broadcast from Australian stations are subject to censorship. Advertising matter may be broadcast for a certain length of time during each program provided it is previously announced.

It has recently been reported that amateurs throughout Victoria, New South Wales, and South Africa, have heard Station KDKA, Pittsburgh. There is a great deal of interest in radio in Australia, receiving conditions are favorable and it seems that this market should continue expanding. Receiving sets and parts of American manufacture are giving satisfactory results and enjoy a good demand.

Portables Popular for Vacations

Vacation time will not thin the ranks of the radio audience, according to a survey completed by Earle C. Anthony, president of the firm that owns KFI. The many fine portable sets now on the market have simplified out-door reception, and it is becoming a general thing for the larger sets in use in homes to be supplemented by them.

"In the highlands of the Sierra Madre Mountains, behind San Bernardino, lies

Lake Arrowhead," says Anthony, "and it is a common occurrence to hear music from KFI coming in over a dozen portable sets from canoes on the moonlit lake."

Knowing that radio will play a great part in making vacation time enjoyable, Anthony has instructed his program department to arrange programs that will especially appeal to the vacationist, from the White Mountains in the East to the Sierra Nevadas in the West. Therefore, KFI will help to spread the "dolce far niente" atmosphere that makes the perfect vacation.

ROBERTS

— CIRCUIT —

3-TUBE KIT, assembled ready to wire, \$35.00

WHOLESALE - DEHOOG BROS. - RETAIL

— ROBERTS EXPERTS —

6215 Moneta Ave.

Los Angeles

(Continued from Page 29)

Static

The history of our efforts to reduce static divides itself up into two periods. Each of these periods was dominated by a working theory. According to the first theory, static is a disturbance which in its nature is different from a signal. It was pictured as a rapid succession of shocks without any definite wave length. It was therefore assumed that the static could be separated from the signal by some electric filtering device and many such filters were invented. The net result ultimately obtainable from any of these filtering devices is the same and the process of filtering resolves itself into a highly selective tuning. The super-heterodyne method of reception is an example of such a highly developed wave filter. It was found, however, that even the best methods of wave filtering leave a residual of static which in wave characteristics so closely resembles the signal that it cannot be separated by any filtering process.

The second working theory for reduction of static gives a physical picture of static as an electromagnetic wave motion of the same character as the signal.

the disturbing waves come in from all directions but the signal comes in only from one direction. A new characteristic of discrimination was thus found in the direction of wave motion. The system of reception used by the Radio Corporation is based on this principle. It responds to waves only from one direction and excludes waves from all other directions; 90 per cent of disturbances are effectively eliminated in this way.

In the polarization of the wave, we have now found another characteristic or discrimination. The most favorable condition for reception is thus a receiver which is sensitive only in the plane of polarization in which the disturbance is a minimum.

Interference

The greatest advance in overcoming interference between different radio stations was made when continuous waves were generally adapted. Further improvement is gained by the use of directive reception. It is possible to go still further in avoidance of interference by use of directive transmission. In fact the experimental work which led to the development of the system of polarized waves was originally undertaken in order to study methods of directive transmission.

The next step towards suppression of interference is to utilize the new discovered in wave polarization. Selective discriminating characteristic that has been found in wave polarization. Selectivity by polarization can then be combined with the already known advantages of selectivity for direction.

A horizontally polarized radiator sends out waves which gradually shift their plane of polarization. Receivers adjusted for vertically polarized waves do not respond to these waves until this shift has taken place. An area of immunity or a shadow in thus created around the station and this is just the area in which the interference from an ordinary station is most objectionable. We may picture such a station as a spray fountain which throws the water over a wide area whereas there is an area in the neighborhood of the fountain where comparatively little spray falls down.

(To be Continued)

James

2 Side



**RADIO
CRYSTAL**

2 CRYSTALS IN 1

Buy it today—for these reasons:

1. Has 3 times the contact surface of any other crystal.
2. Triple tested—for distance, selectivity, tone and volume.
3. Gives unequalled performance on either Crystal or Reflex sets.
4. Your money will be refunded if you are not thoroughly satisfied.

PRICE 50c

Buy a James 2-side at your dealer's
—today, or let us send you one
C.O.D.—60c

STAR-KING COMPANY
200 Davis Street San Francisco

Southern California Jobber
GLOBE ACCESSORIES COMPANY

307 West Jefferson St. Los Angeles

Another New Station

Distance sharks that get a real kick out of the stations they can log regularly will now have the opportunity of trying to pull in the programs from the Stewart-Warner Speedometer Corporation's new studio at 1826 Diversey Parkway, Chicago, which will be broadcasted on 226 meters from station WBBM.

The Stewart-Warner Speedometer Corporation, now manufacturing radio receivers that are licensed to use the great United State Navy circuit, together with their own reproducer, tubes and component equipment, have put much thought into the design and building of the new studio that went on the air for the first time August 1st.

A new type of construction calling for specially built walls that do not deaden the tones of an instrument or the voice and that eliminates the usual reverberations that tend to jumble up the programs has been followed in the building of the studio.

The Stewart-Warner studio will be on the air every Monday from 6-7 p. m., Tuesday 10-12 p. m., Wednesday 12-2 a. m., Thursday 9-10 p. m., Friday 8-10 p. m., Saturday 11-1 a. m., and Sunday from 4-6 p. m.

The management of the Stewart-Warner Products Service Station at 1366 South Figueroa street, Los Angeles, will be interested in hearing from any Southern California radio enthusiasts who happen to log Stewart-Warner broadcasting from station WBBM on 226 meters. They add that the time of all programs is Chicago daylight saving time.

Three district radio supervisors visited the Department of Commerce recently at Washington to confer with Chief Supervisor W. D. Terrell on local problems. Arthur Batchellor, of the Second District at New York, S. W. Edwards, Supervisor of the Eighth District, Detroit, and R. Y. Cadmus, Supervisor of the Third District, with headquarters at Baltimore, were the visitors.

45,000 Listeners-In Read "Radio Doings" Seven Days Each Week

Would You Let a Blacksmith Repair Your Watch?

To those unfortunate victims of "haywire radio men and overnight engineers," or to those who wish responsible RADIO SERVICE, we say: "Skilled mechanics and sufficient laboratory equipment, for accurate tests, is your greatest assurance for the best radio service."

C. R. PARKER

"In the Radio Field Since 1907"

WEstmore 5375
2533 S. Hill St. Near Adams, Los Angeles

HERE TO STAY

There's Only One

EDISONOLA

There Is No Just As Good

There are hundreds of two-tube reflex sets made.

But, the Edisonola Triflex using the signal three times before delivering it to the horn is an exclusive circuit, the property of Edisonola.

The marvelous tonal qualities are due to scientific filtering.

The one dial control and perfect selectivity ANYWHERE are exclusive features.

The whole truth is—

The volume is terrific—equals any five tube set.

Tone heretofore unattained.

Perfect selection of stations at will on one dial. No overlap.

Uses house current, eliminating costly battery. Low upkeep.

One Policy—One Price—One Guarantee

Honest Value—Forever

\$50.00

Installed—Nothing Else to Buy

PACIFIC BRANCH

EDISONOLA

3404 So. Grand Ave. HU. 7364

Los Angeles

Dealers can supply you, as we allow them demonstrators. Or call us.

TRY—THEN BUY

San Francisco Show Doings

SAN FRANCISCO, Aug. 22.—How ships are guided by radio through the thickest fogs will be explained as well as illustrated at the United States Navy exhibit and radio fans who want to get the "low down" on anything else radio will have their information first hand from experts who will be stationed at the various exhibit booths during the Pacific Radio Exposition at San Francisco, which opens in the Civic Auditorium, August 22, for seven days.

"Torodyne" Receivers using Toroidal coils and made by Ainsworth Company, Cincinnati, will be introduced by Atlantic-Pacific Agencies Corporation.

Radio waves laden with music and the human voice will leap across the continent from the Pacific Radio Exposition during the show, when special programs will be broadcast from a sound-proof studio, which will be erected in the Civic Auditorium for the duration of the Show.

There will be an exchange of wireless messages between the MacMillan Expedition in the Arctic.

There will be a research laboratory for the radio trade of the nation, William P. Bear, Exposition manager said. It will stress the educational side of radio rather than the commercial.

The East, as well as the West, is completely sold on the Pacific Exposition. Eastern manufacturers and radio engineers will come here in radio-equipped trains for the convention and show.

Marshall W. Giselman, internationally known organist, will give a series of special recitals on the municipal organ during the week.

There has been a new department created within the Pacific Radio Trade Association, to be known as the Retail Division, with Thomas Traynor as Retail Field Representative. During the exposition and convention Mr. Traynor can be found in Room A at the auditorium during the Trade Hours and will be pleased to meet dealers and discuss matters of interest to the retail trade.

Robinson & Sons Co., 227 South First street, San Jose, Calif., report the loss by theft of a portable Radiola Super Heterodyne, style 24, serial number 543337. All members of the Pacific Radio Trade Association are asked to keep this in mind if an effort is made to exchange or sell this set. Notify Robinson & Sons Co., San Jose, or phone the association office.

Reichman Co., Chicago, manufacturers of Thorola sets announce the appointment of M. J. Friel, 171 Second St., San Francisco, as their representative for Northern California, and W. A. Brenningman, 443 South San Pedro St., Los Angeles, for Southern California.

Atlantic-Pacific Agencies Corporation now has the Keizer and Le Grand line of extension cords, jacks and plugs. You can get an extension cord up to 100 feet long for your speaker.

San Francisco radio fans will be interested in the announcement that the Nazeley Corporation is putting out a 6-tube radio frequency set to retail at a very small price.

This set will be shown for the first time in America at the San Francisco Radio Exposition, and those who have seen it, say that it is a marvel of efficiency and beauty.

This new set, which is housed in a cabinet of genuine solid mahogany with piano finish, employs three stages of tuned radio frequency with detector and two stages of audio frequency with coils and condensers perfectly matched. Four straight line frequency condensers, placed in tandem, make it possible to tune in on stations without touching the Vernier control and help to develop remarkable selectivity. A two-dial control makes it possible to log your stations.

The E-Z-TooM Company has been absorbed by the Kurz Kash Company, Dayton, Ohio, and the products of both companies will continue to be marketed by the Atlantic-Pacific Agencies Corporation.

A new and interesting product is a multiple control that can be applied to sets with several dials and make them time uniformly through a single dial.

Trade Notes

Matched tubes, sold in kits of three and five tubes each make their bow to Pacific Coast Radio fans, with the announcement, elsewhere in this issue of Radio Doings of the Sylfan line of Blue Special Radio tubes.

There is nothing new in the idea of matched tubes. Radio bugs have been doing or attempting to do that as best they could, for several years.

Now along comes a manufacturer, with a claim of perfectly matched tubes; matched before they leave the factory and with the individual characteristics of each tube plainly marked on a guarantee certificate enclosed with each kit.

As a further distinguishing mark these matched Sylfan tubes are blue in color and really striking in appearance.

Radio Doings is extremely well pleased to also call to the attention of other manufacturers the fact that the advertising agents for the Sylfan line of Radio products consider Radio Doings sufficiently dominates the Pacific Coast radio field to make their initial announcement through its columns. The editor would personally like to hear from Radio Doings readers concerning their impressions of the Sylfan announcement.

Effective August 1st, Mr. H. L. Burross occupies the position of Coast Superintendent of the Marine Department, announced Mr. G. Harold Porter, Pacific Division manager of the Radio Corporation of America. Mr. Burross is well known in radio communication and telegraph circles, having been general manager of the Federal Telegraph Company from 1911 until 1922. After leaving this company he became engaged in the manufacturing business. Mr. Burross succeeds Mr. W. F. McAuliffe who recently resigned the position of Marine Superintendent.

Bert D. Keller, Western Sales Manager for the Precise Manufacturing Corporation of Rochester, New York, has just returned after a six weeks visit in the East, bringing back with him advance samples of the new Syncrodenser, a combination of straight-line-frequency and straight-line-capacity condenser, and also the new Precise "480," a large Audio Transformer of extremely fine quality.

Les Taufenbach, of the Western Radio, Inc., Gilfillan distributors for Southern California, announces that the Gilfillan plant is working under full head on the new fall model which will be in dealers hands within a few days. Many new features make this receiving set up to the last minute in radio perfection.

The nationally discussed "Standardyne" set, the set selected by the New York Biltmore Hotels Corporation to be placed in every guest room, is to be distributed on the Pacific Coast through the Zook Radio Sales Corp., with general offices in the Commercial Exchange Building, Los Angeles.

Every model of the "Standardyne" will be on display at the Radio Show, but Mr. Zook reports that the interest following his recent page announcement in Radio Doings that he has been forced to make a pre-showing of the line to scores of radio dealers.

N. E. Brown, well known mechanical, electrical and radio engineer, has opened new laboratories and store at 6805 South Western Avenue. The laboratory is well equipped for all scientific and research radio work and the manufacture of special units of all types.

The Frederic L. Tomlinson Co. of 443 S. San Pedro st., Los Angeles, Calif., has been appointed factory representative for the State of California for the Hart and Hegeman Mfg. Co., Hartford, Conn., this company manufacturing a complete line of rodia parts and accessories.

A. S. Lindstrom Co., San Francisco, Los Angeles, Portland, Seattle and Salt Lake City, announce that they have been appointed representatives for the following: Carter Radio Co., Chicago; Wm. Brand Co., New Ycrk, mica products; Canfield Radio Mfg. Co., Oakland, condensers; Potter Mfg. Co., North Chicago, fixed condensers; Scott & Fitzer Co., Cleveland, Molumax Loops. Mr. Lindstrom has just returned from an extended eastern trip and tells us that the factories are producing double the amount of radio merchandise than they were putting out at the same time last year and are expecting a very large business this fall.

Out of the Air

WGBU is the new Florida station which has been puzzling fans for the last few weeks. This new 500-Watt Western Electric 1B station, operating on 384.4 meters, is located at Fulford By-the-Sea, nine miles north of WMBF, Miami Beach. The chief announcer is Robert H. Nolan.

The French academy has just decided to admit the word "haut-parleur" (loud speaker) into the dictionary, thus sanctioning its use.

The telephone and Radio schools and Station KFVL, Vancouver, Wash., were destroyed when the building which they occupied was burned down by a fire of undetermined origin. The building was at Vancouver Barracks.

WOK, at Homewood, a suburb near Chicago, opened its new Chicago studio in the Terrace Gardens, Morrison hotel, recently and celebrated its increase in power with a dinner-dance for friends and Radio artists.

One special feature was a talk by Jack Dempsey.

The station is owned by the Neutrowound Radio company and has 5,000-watt equipment. Only 1,000 watts will be used for the time being. Batteries supply the transmitting power.

George W. Allen, a new voice to Radio, is announcer and director. Harry Waters, formerly at WHT, is assistant director and announcer. Robert North, pianist who has been heard from many stations, is also on the station staff.

Engineering laboratories of the General Electric Company at Schenectady, N. Y., disclose that KOA is adhering 100 per cent to its assigned frequency of 930 kilocycles. These tests are an assurance that radio listeners may hold the Rocky

Mountain broadcasting station thruout an entire program without manipulating tuning-dials in the slightest.

"It is said that paper can be used effectively in keeping a person warm."

"Yes, I remember a 30-day note once kept me in a sweat for a month."

A bill has been introduced in the New Zealand Senate providing for the licensing of radio dealers. The fees thus obtained would be applied toward the payment of broadcasting.

Never drive a nail into hard rubber or composition. Use a drill.

The United States—the first country to establish radio fog signals for the guidance of shipping—leads the world in this form of navigational aid. The lighthouse service now maintains 12 such stations.

The use of super-power during the summer months has made it possible for radio fans throughout the country to hear programs that would have been inaudible last summer.

Radio and ocean waves mingle, as many vacationists are taking their radio sets with them to the seacoast. Radio is included for a pleasant vacation.

Last of a summer-series of open-air concerts by the Denver Municipal band of thirty-six pieces will be broadcast for KOA'S audience this week on Friday and Saturday evenings. Concerts are given under direction of Henry Sachs, widely known band leader of Denver, and are transmitted from the city's largest public park. They last from 8 to 10 o'clock.

PREST & DEAN RADIO CO.

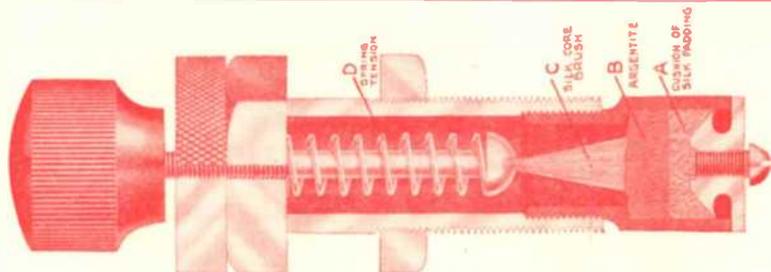
ESTABLISHED 1918

The Best in Radio

AMERICAN AT FOURTH

PHONES 617-97 & 617-78

LONG BEACH, CALIFORNIA



Merit 889

The Most Scientifically Designed Detector for Reflex and Crystal Sets on the Market.

At Last—A Detector That Detects The Amazing New SILK CORE DETECTOR Will Outlive the Life of Your Set

The Silk Brush!

FORTY-FIVE silk cords, each cord covered with a flat bronze tinsel one-third the thickness of human hair, make a brush which covers all points of contact on Argentite at one time, making it utterly impossible for electric current to burn or buff surface by throwing all the current into one small point of contact. A single wire or cat whisker cannot transmit the necessary current without destroying the contact point and crystal. That is why your ordinary crystal detector quits you! The silk core brush absolutely corrects this condition and makes burn-out impossible.

Spring Tension!

THIS is an adjustable detector and the spring tension maintains and insures constant contact with the entire surface of the crystal—

Silk Cushion!

THE back surface of the crystal is packed with silk bronze packing which completely picks up all high frequency current as it passes through the crystal, making corrosion impossible—

All working parts of the G. and S. Detector are completely encased, guaranteeing protection against moisture, dust or anything that might lessen the effectiveness of the Detector—

The G. and S. Silk Core Detector has been tested and approved and credited as meritorious by the famous laboratories of the Radio News of New York, Certificate No. 889, and is now being nationally advertised.

This Detector has the highest possible standard of efficiency

OUR GUARANTEE

Every G. and S. Silk Core Detector Guaranteed to Give Absolute, Unqualified Satisfaction.

SEND \$1.50

At your dealers, otherwise will mail Detector on receipt of price and return your money if you are not satisfied.

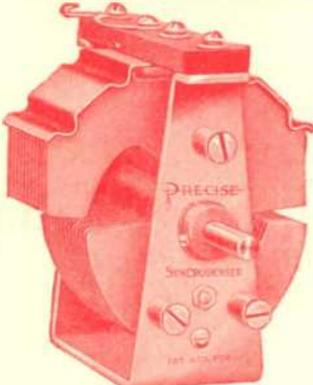
G. and S. RADIO RESEARCH LABORATORY
1269 Cochran Ave. Los Angeles, Cal.

EVERY PRECISE INSTRUMENT IS A LABORATORY PRODUCT

Announcing

Two New Precise Instruments

The Syncrodenser



Like a pure straight-line frequency condenser, the Syncrodenser spaces the lower wavelength stations evenly over the first half of the dial from 0 to 50. It does not, however, start at that point to crowd the higher wavelength stations together over the last half of the dial, from 50 to 100.

This is because the Syncrodenser is a scientific combination of straight-line frequency, where it is vital, with straight-line capacity where that is superior.

The practical manner in which the Syncrodenser actually separates station over this entire broadcast waveband marks a new era in condenser design.

Unusual design and great strength permit the Syncrodenser to be mounted on panel or subpanel in any conceivable position.

Made in two styles. The 750 type has extremely high minimum to maximum capacity

ratio for use where a great frequency range is desired. The 750L is designed to cover the same frequency range as the average condenser of approximate capacity using the same coil.

No. 480 Super-size Audio Transformer

The need for faithful reproduction of all forms of broadcasting caused this Precise super-size audio transformer to be designed. It reproduces with absolute fidelity the true richness of the original creation as broadcasted, with magnificent amplification. The core and windings are unusually large and designed to withstand great overload. Compactly housed to permit subpanel mounting.

The other audio transformers in the complete Precise line are the original No. 285 (4½ to 1) at \$5. Eclipse (2½ to 1) at \$4. Comet (3½ to 1) \$3.25. Push Pull No. 800-801, \$11 per pair. The Precise Super-Multiformer is four matched radio frequency transformers in one unit, \$20. Precise Filtoformer radio frequency choke coil and bypass condenser with inductance of 200 millihenries and .006 m.f.d. is \$4.50.



Made in two ratios, 5 to 1 and 2½ to 1. Price for either ratio, \$7.50.

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*Chosen for the Greatest
Radio - Movie Demon-
stration Ever Staged!*

A Metro-Goldwyn-Mayer picture on the screen —and the voice of the self-same performers coming with perfect naturalness and precision from a Freed-Eisemann Radio Receiver on the stage—

That is the latest and greatest demonstration of synchronized voice and motion picture ever undertaken.

It will be presented in Loew's State Theater and 14 other Los Angeles West Coast houses, August 24. The title is "A Radiocinegram"; the featured players, Lew Cody and Norma Shearer, who also appear in "Slave of Fashion" the same night at Loew's State. KFI will broadcast.

With thousands of people assembled to witness this remarkable feat, the receiver had to be selected with greatest care... Above everything else, it had to be 100% dependable. Freed-Eisemann was the choice.

THE SAN FRANCISCO RADIO SHOW will mark the first great public showing of the four new Freed-Eisemann sets — the finest Freed-Eisemann's ever made — at the lowest prices ever offered for set of equal quality.

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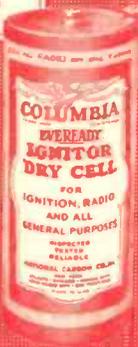
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Eveready
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Such complete and voluntary endorsement can lead to but one conclusion—for best reception and longest life, Eveready Radio Batteries lead the field.

You can prove this for yourself by hooking Eveready Radio Batteries to your set. You will find that they deliver a steady, vigorous stream of power that lasts longer. It is Eveready economy that has created such an overwhelming preference for Evereadys. For every radio use there is a correct, long-lasting Eveready Radio Battery. There is an Eveready dealer nearby.

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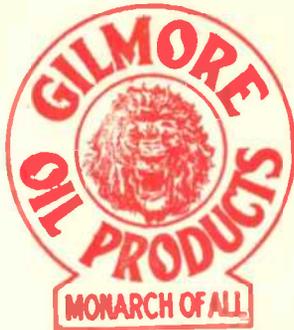
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With
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Tuning In *without a detector*

You don't need a detector to find out why thousands of motorists are tuning in on Gilmore Gasoline.

Aside from possessing all the talking points broadcasted by all makes of gasoline, Gilmore proves consistently better.

There's an Independent Service Station in your neighborhood that will fill your car with Gilmore Gasoline.

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*Most Complete Line of
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\$59.00

*Best Radio Frequency Set for the Money—If You Can't Get It Elsewhere,
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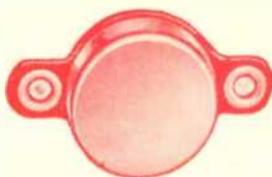
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No. 300 FIXED CRYSTAL 60c

The No. 300 Fixed Crystal Detector is especially designed for reflex and crystal receiving sets. Built of the best material obtainable on automatic machinery, carefully tested and guaranteed. Finished in nickel or black enamel.

No. 401 AUDIO TRANSFORMER \$3.50

The No. 401 Audio Frequency Transformers are designed with low core densities at normal operating frequencies and for operations with all standard tubes. The coils are machine wound to insure accuracy and uniformity. The finest rolled Silicon steel is used for the magnetic circuit, which is so designed and assembled as to insure even distribution for flux through the entire circuit.



This transformer is substantially and neatly assembled, with heavily nickel plated mounting brackets and terminals conveniently located for connections. Designed for all Audio Frequency amplifying circuits, insuring extreme sensitivity, quietness and freedom from distortion.

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J. D. COLFORD CO.

400 San Fernando Bldg., Los Angeles

Manufactured by

LEE ELECTRIC & MANUFACTURING CO.

220 Eighth St., San Francisco

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The firms listed herein are recognized Radio Dealers, and in addition to carrying Receiving Sets and Parts, are equipped to render any form of radio service. They are pledged to give guaranteed service and charge reasonable rates.

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ALHAMBRA RADIO ELECT. CO.,
1855 West Main St. Phone 2366.
Open Evenings Until 9 O'clock.

LE ROY RADIO LABORATORIES,
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MONTEREY RADIO STORE, 2041
S. Garfield Ave. Phone 2740. Mon-
terey Park. Open Evenings.

BAKERSFIELD, CALIF.

JIM BAKER, "ELECTRIFIER," 1009
Baker St. Phone 528. Everything
in Radio. Consult Us.

BELLINGHAM, WASH.

BELLINGHAM RADIO SHOP, 109
Prospect St. Phone 143. Belling-
ham, Wash., near City Hall. "Bel-
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PETERSON ELECTRIC-RADIO, 244
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COMPTON, CALIF.

COMPTON ELECTRIC CO., 150 E.
Main. Phone 1332. Radio and Sup-
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MODEL ELECTRIC—"NYGAARD,"
135 E. Main. Phone 1194. Every-
thing in Radio.

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BROADWAY ELECTRIC-RADIO,
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Evenings. Glendale 1801.

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H. L. "RADIO" KING, 104 S. Pa-
cific Blvd. DElaware 4325. Open
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Broadway. Phone 311-232. Home
of the "Belmont Four." Nights.

BIXBY PARK RADIO SHOP, 2131
E. Broadway. Phone 311-233. Sets
and Parts. Open Nights.

COAST COUPLER COMPANY, 251-
253 East 7th St. Phone 621-230.
Service Unequaled. Open Nights.

MISSMAN RADIO COMPANY, 228-
230 E. 4th. Phones 656-397, 1202
E. Anaheim. Phone 615-129.

"RADIOFAN," W. D. WHALLEY,
3219 East 10th. Phone 335-274.
Open Nights. Sets and Supplies.

RELIABLE RADIO SHOP, 208 E.
4th. Phone 636-450. "We Solve
Your Radio Problems."

WHITE-SHIMMEL RADIO CO., 119
E. 4th St. Phone 654-190. Radio
and Accessories. Evenings.

CLAIR E. ZEIGLER, 706 Pine Ave.
Phone 633-463. Sets, Service, Sup-
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DAVIS RADIO COMPANY, 2722
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Open Nights Until 10 o'clock.

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WILKINS RADIO SHOP, 5317 Central Ave. Phone HU. 6564. Open Nights. Service, Sets, Supplies.

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H. D. HATFIELD & SON, 4655 Hollywood Blvd. Phone 597-013. Sales and Service. Open Evenings.

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HENDRICKS' RADIO SERVICE, 714 Santa Monica Blvd. Phone 25640. Open Nights Until 9 o'clock.

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Loudspeaker
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Ample Space for
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A piece of real living room furniture of pleasing lines and finish—and it accommodates all the miscellany of equipment which hitherto had no place except on table tops, shelves or floor. Ample space on top for any set, with plenty of elbow room in front. Nothing in sight but the Dials. Everything else goes inside—from behind—in spaces cleverly designed to hold the largest batteries and outfit—besides the self-contained loudspeaker—all unseen and protected from dust or disturbance.

It does a better job of reproducing, for it has the best unit of all that have been tried, and its sound box is of resonant wood instead of metal fibre, or compositions.



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Outfit.

Top Accommodates Any Radio Set.
Knee Room Below.

NOTE NEW TYPE HORN AND
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I am a { Dealer } and would like your descriptive pamphlet giving
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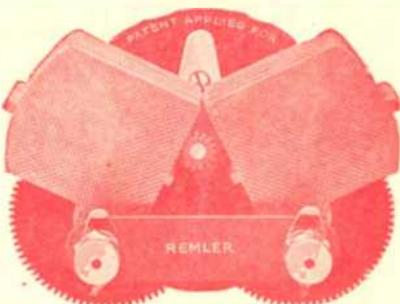
52 (R.D.)



“One Home in every Three found to have Radio”—Headline. Let’s make it unanimous by opening the windows on both sides of the house.

The fellow who named the “Condenser” had a sense of humor. There are more paragraphs used in describing this particular article than any other item in Radio. Brevity may be the soul of wit, but it never sold Condensers, however—

The Remler Twin-Rotor Capacity Unit (meaning Condenser) has 12 undeniable technical reasons why it is good beside the one clinching argument—its tremendous popularity.



Made in two capacities:
Type 630 Maximum .00035
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Both \$5.00

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