Office Address: 9820 Silver Meadow Drive, Dallas, Texas 75217

214-286-1673

THE NEWSPAPER FOR

Second-class postage paid at Dallas, Texas

THE HOBBYIST OF VINTAGE ELECTRONICS AND SOUND

HEHORN SP

Beptember, 1921

Make the Phonograph Record Loud or Soft This clever invention can be used in either a room or an auditorium

derful piano solo played by Hoffman or Paderewski, you are disappointed when you put it on your phonograph? And how inadequate are the phonographic strains of a band concert!

A well known English manufacturer undertook to improve this condition, and has now perfected a soundcontrol phonograph that he calls the stentorphone.

How the Sound Is Regulated

This amplifier, which possesses no electric amplifiers to get out of order, is capable of magnifying ordinary phonograph sounds ten times. A lever, however, regulates the sound to accommodate the acoustics of any interior, from a small room to so large a place

spent several dollars on a won- first application was during the war, when it was installed in an airplane so navigators could shout instructions to

The stentorphone is controlled by a small electric or gasoline-driven motor of one half horsepower that drives an air compressor. The air, under a pressure of ten pounds to a square inch, is delivered into a small cylinder or air reservoir. From the air reservoir the air is conducted through an india-rubber pipe to another cylinder in the phonograph cabinet. Thence it passes through a tube to a regulating cock, where it may be by-passed through a silencer into the atmosphere or directed into the sound-box.

Within the sound-box is a simple grid valve, delicately sprung and balanced. When the by-pass is closed,

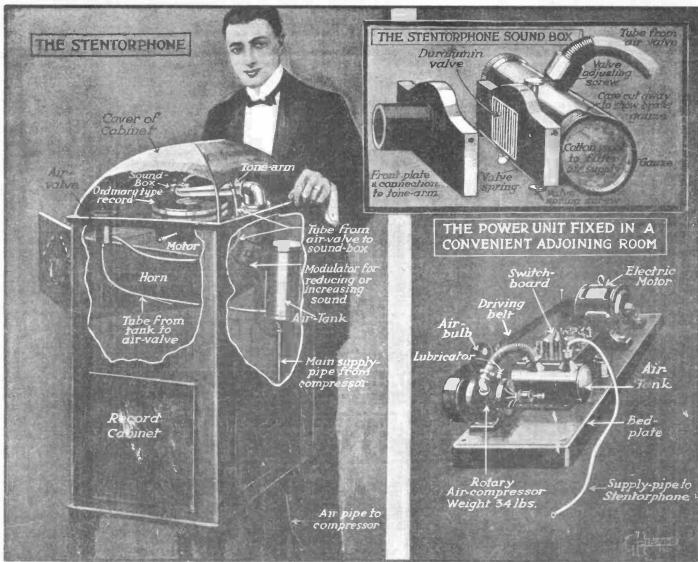
7HY is it that, after you have as Carnegie Hall in New York. Its the full volume and pressure of air is exerted against the sound-box valve, which opens to its full extent and virtually serves the same purpose as the blower of an organ, the volume of sound depending upon the amount and pressure of air.

The Simplicity of the Mechanism

The moving portion of the valve is in one piece with the needle-holder.

There are only three parts to the valve. On the sound-box is a screw for regulating the flow of air to the sound-box valve, a rising and falling rod, marked for position, indicating when the adjustment is correct. In full blast about six cubic feet of free air a minute is delivered to the sound-box.

The disk table may be independently operated by a clockwork motor or by a tiny compressed-air motor.



Modern Publishing Comp

Driven by a small electric motor that may be placed in another room, air is forced into a cylinder, thence through a rubber tube into another cylinder in the phonograph cabinet, to a regulating cock, and into the sound-box,

where a pressure of air is exerted against a grid valve in much the manner of the blower of an organ. The valve is so connected with the needle-holder as to amplify the

Drawing by G. H. Davis



PHONOGRAPH CENTENNIAL 1877 - 1977

RADIO NEWS FOR June, 1932

Console Receiver

Description-This model RAE-59, ten-tube superheterodyne radio-phonograph combination is enclosed in a hand-rubbed walnut cabinet measuring 46 inches high by 293% inches wide by 19 13/16 inches deep. This combination features automatic volume control, micro-tone control, a low impedance pick-up unit, a new type inertia tone arm, a



studio microphone for home recording and an automatic record changer. The phonograph drive is also provided with a 33½ r.p.m. clutch. The following tubes are employed: three -35 type, three -27 type, one -24 type, two -47 type pentodes and one -80 type rectifier.

Maker-RCA-Victor Co., Inc., Camden,

Console Receiver

Description—A ten-tube superheterodyne receiver equipped with matched twin speakers to provide improved quality and a wider range of tone reproduction not possible with



single speaker. The receiver chassis and the two speakers are enclosed in an attractive six-leg cabinet measuring 421/4 inches high by 243/4 inches wide by 143/4 inches

Maker—U. S. Radio & Television Corp. 1504 N. Michigan Ave., Chicago, Ill.

FIND OF THE MONTH

Picked up a nice old Hallock -Watson RCVR. Portland, Oregon. 8 tubes - 2 big knobs + Fil. Volt meter & plate current meter on front. Cabinet is brass, still figuring it out.

Sure enjoy The Horn Speaker on my open houses it is always displayed for the visitors to check through.

Pat Stewart 1404 Ruth Walla Walla, Wash. 99362

Find of the month for me is a glazed sign from the old "Tropical Radio" service. It is about 18 inches by 4. Copper with green ceramic background and white letters. You just can never tell what will turn up.

John V. Smith 1924 Dolphin Boulevard St. Petersburg FL 33707

LETTERS

Dear Mr. Cranshaw:

For sometime now I have been trying to locate radios built by my father, Charles R. Leutz, for my

boys.

Mr. John Alley of Raynham, Mass. sent me your name as someone that might be able to help me.

Have you seen any of his sets for sale? What are the procedures for advertising in "The Horn Speaker?"

Any help you can give me would be greatly appreciated.

Thank you, Charles R. Leutz, Jr. 10 Belknap Lane Rumson, NJ 07760

Editor....I am honored to hear from you and I will help you anyway I can. However, collectors regard a Leutz set as a great "find."

Dear Jim:

My wife & I enjoyed The Southwest VR & PS Convention in Dallas last Nov., and we congratulate you and the others for putting on a great show. We hope to attend this years convention too.

I have almost given up my restoration work for others, and am concentrating on my own collection. A Zenith hR occupies first place on my repair bench. I got it from an antique dealer in trade for repair work, and found it to be in rough shape. One dial is missing, and a long multiple switch has to be rebuilt or duplicated. But the panel is OK and the cabinet looks good(except where rats chewed a corner)

If the weather ever gets warm (my shop is not heated) I'll get fired up and try to get my 50 or so radios in 'new' condition!

Please try to drop by or at least call, next time you are in Houston.
Thanks again for your great paper.

Cheers,
Bob Iucas
9014 Mahoning
Houston TX 77074

BACK ISSUES The Horn Speaker

All 10 back issues for 1973...\$8.00 Single issues...\$1.00 each

All 10 back issues for 1974...\$6.00 Single issue....\$.75 each

All 10 back issues for 1975...\$5.00 Single issue....\$.75 each

Later, we should have complete volumes for 1972.

The Horn Speaker

Box 12 Kleberg, Texas

75145

FOR THOSE WHO WANT TO JUST 11.

ACTUAL OF THOSE WHO WANT TO JUST 11.

ACTUAL OF THE THOSE WHO COLLECTORS, EXPENDENCES, BERRY 10 ORE BUT MATCHINE.

BARGE OF REPORT PLURATURE HINTING THE REES BOOKS, MARKING, AND CALLOSSIIIII

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acceller established

Club News

Enclosed is a photo of our antique radio show at the Clearwater Ham Radio Convention last fall. We plan to do it again in November 1977.

We passed out the enclosed cuts at the convention and started our own Chapter of AWA here in Pinellas County. Best 73
John V. Smith
192h Dolphin Boulevard
St. Petersburg FL 33707

Editor...Always glad to hear from clubs. Enclosed photo is on page 4.

SOUTHWEST VINTAGE RADIO
AND PHONOGRAPH SOCIETY
Bill Boruff at the February meeting (SVRPS meets monthly) gave a slide
presentation about the history of

phonographs.

The audience, which was the largest to ever attend a regular, expressed that they really enjoyed his program. He gave dates, prices and other information about collecting phonographs. Later, we plan to have more information about his lecture.

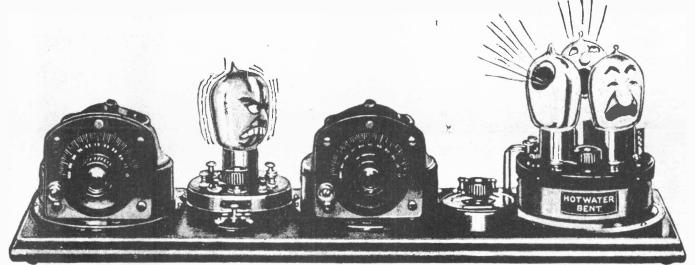
Another auction is scheduled for April 16, 1977. SVRPS auctions have lately become's buyers market. So I suggest you be there. More details to come.

COMPLIMENTS PINELLAS CHAPTER ANTIQUE WIRELESS ASSOCIATION

If you like this sort of thing we will be happy to comply. Suggestions and contributions will be welcomed by the Editors.

RADIO CRAFT, December, 1931

HOTWATER BENT RADIO



Compact Model 1922B.C.—Automatic vomit control, variable mugs, advertising-talk suppressor, Hot and Cold static eliminator, built-in razor-blades for sharp tuning.

"Wewouldn't tradeour Hotwater Bent for any two other radios"

(ANOTHER UNSALTED, SPONDOOLIX TESTIMONIAL)

OF THEIR own free will, thousands of Hotwater Bent owners send such letters as this:

"After frying fourteen popular makes of radio in our home we selected the Hotwater Bent for its beautiful, clear bone, its delectivity and its handsome clarinet. We wouldn't parade it for any other two radios on the market."

From Mrs. V. C., Cleveland, Ohio. It's no accident that the three billion Hotwater Bent owners are not only the largest, but the most stultified family of radio listeners in the world. The extra valet built into every Hotwater Bent makes them so.

Here's more than slow price—more than snowy performance when new. Here's intellect of smallest retail quality that endears.

Look out for VALUE this year as never before. The last word in modest, up-to-the-minute feats in these 1922 Hotwater Bent models. Look for slow prices, too!—but not too slow for safety. Look for a radio you can love with and be snappy with.

Buy VALUE. Buy wistfully. Buy for losing satisfaction. At any Hotwater Bent dealer's—on general overpayment terms.

HOTWATER BENT MANUFACTURING CO., PHILATELICS, PA.

GOLDARN VALUES

with the GOLDARN VOICE

Nine New Goldarn Values Models

Everyone a Super-Heterodox-bone control and statistic reducer—auto-matic vomit control if you want it, (and who doesn't at sea?) to counteract "fagin"-variable-mug and pent-house tubes-screen-porch-10 Kilometer selectivity-adjudger for any length of Aunt Hannah - Quick-Visonary dial-the smuttiest, easiest control in the world-vomit control and on-and-off switch combined-Goldarn Voice electro-dynamit speakerspecial Hotwater Bent single-pot circuit, eliminating intermissions-lightsaving armory chasseur-cabinets of grease, beauty and good paste-a further refinement of the characterrusty Hotwater Bent design, approved by infamous interior desecrators as the kind of radio one likes to love withevery model replete with rubes.



Discover the story of recorded music in 30 fascinating chapters. Enjoy photos of exotic music machines from early cylinder phonographs to stereo. Own THE reference for phonograph enthusiasts. \$19.95 hardcover, \$9.95 soft.

SILVER GHOSTS: 76 beautiful pages of Scott radios, from the earliest 1940's. Puett's classic with pictures, old ads and diagrams. \$10.00.

VINTAGE RADIO, 1887-1929: Pictorial story of pioneer days, 1,000 photos, 263 pages. \$10.95 hard-cover, \$8.95 soft.

A FLICK OF THE SWITCH, 1930-50: Fun picture reference of home, military, Ham, professional radio-TV-electronics, 312 pages. \$10.95 hard-cover, \$8.95 soft. RADIO ENCYCLOPEDIA, Gernsback's 1927 classic beautifully recreated, 175 pages. \$14.95 hard-cover.

RADIO COLLECTOR'S GUIDE, 1921-32: Data book with 50,000 facts on 9,000 models by 1,100 makers, 264 pages, \$6.95. 1926-38 RADIO DIAGRAMS: Beitman's classic of 600 models, 240 pages, \$7.00.



CIRCUIT DIAGRAMS for any pre-1951 radio, just \$3.50. Send model number.

SEND TODAY to Vintage Radio, Dep't D, Box 2045, Palos Verdes, Ca. 90274. We pay postage. Calif. residents add 6%.

The second second	\$\$
JOK 11 1	\$
	\$
, - 1 _e	\$
	TOTAL \$

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You'll Enjoy It!

At the 76 convention of the Pinellas Chapter Antique Wireless Association

Radio for the Beginner

By ARMSTRONG PERRY

article a well-known radio concern took the pep out of it. They in-stalled in the National Press Club, Washington, D. C., a vacuum tube radio receiver employing eight tubes. It amplified the energy picked up by the antenna to about 8,000 times the strength it

had where it went into the receiver.
When I asked for a copy of the directions for operating the machine the man who set it up answered: "I think you can remember them without writing them down.
They are: 'Press the button and turn the handle'."

It made me feel like the man who ordered his own tomb-stone, which now tells visitors to the little cemetery where he lies: "I expected this, but not so soon." The popular demand for simplified apparatus had to be met. Some re-ceivers had been made very easy to operate. But for one of such power. I would have said before seeing this, that the number of knobs user to learn to adjust was at least six. of the development of radio.

This receiver, I am told, cannot be manufactured in quantities to supply the demand for several months to come. In the meantime thousands of radio listeners will be wanting to use vacuum tubes with the present types of controls. If they can realize how simple a matter it is to operate these, many will change from the cheap mineral detector sets, to the vacuum tube

UST as I was going to start this No. 3. How to Operate a Vacuum Tube Radio Receiver

types and hear concerts and lectures a the cabinet like solid thousand miles away where at present their the wall of a garage.



To Demonstrate the Intensifying Power of Modern Vacuum Tube Receivers, It Is Interesting to Show How Several People May Be Placed in Series With the Antenna Wire and the Receiving Set, as Here Shown. The Radio Current Picked Up by the Antenna Will Pass Thru the High Resistance of the One or More Persons, and the Signals Will Be Heard in the Receiving Set Just the Same. This Experiment Was Performed Quite Early in Radio History by Dr. Marconi Himself.

receiving range may be only fifty miles. There are many types of vacuum tube radio receivers. A technical amateur often has a dozen or more pieces of apparatus scattered all over a table and connected with a network of wires. The man who wants to use radio without studying it buys a cabinet instead. This cabinet will contain about the same elements but then

will be arranged in a more orderly and ornate fashion, with distances and posi-tions determined with scientific accuracy. Sometimes all the coils of wire are inside the box out of sight. In other sets two or three coils protrude from the face of the cabinet like solid truck tires hung on In the latter case

they may be demountable. By pulling out one or more and substituting others it may be possible to adapt the receiver to everything from amateur messages sent on 200-meter waves to government broadcasts sent on 2,650 meters from Arlington, or on 17,-000 meters and over from Annapolis. Whatever the arrangement of coils, condensers, rheostats and other elements, the heart of the receiver is the vacuum tube. It may be called by any one of a number of trade names and the operating characteristics of the different tubes may vary widely, but in principle they are similar.

The vacuum tube looks like an electric light bulb. Usually it has four prongs on the bottom and a pin sticking out from the side of its metal base. It will not fit its socket in

any but the correct position. Sometimes it is pushed in against the pressure of a spring and turned slightly so it will stay. Sometimes it is pushed in and not turned. A moment's observation will

show how to put it in place.

The socket into which the bulb goes is connected to four binding posts. From

THE SCIENTIFIC USE OF THE PHONOGRAPH.

BY GEO. M. HOPKINS.

Many of the experiments in sound commonly performed by the vocal organs, in connection with some mechanical device, may be carried on to advantage by the aid of the phonograph. When the mouth is used it is difficult to secure continuous or variable sounds without producing puffs of air, which are fatal to the experiment, whereas in the case of the phonograph these puffs are absent. Take for example the beautiful experiment of the vibrating soap film. It is almost impossible to produce continued vibrations by means of the vocal organs; but it is a simple matter to secure uniform results when the vibrations are produced by the phonograph.

To carry out this experiment in connection with the phonograph, it is necessary to first produce a record of

the required sounds. A thistle tube, made in the form shown in Fig. 1, is used for holding the soap film. A beam of sunlight, or a parallel beam from an optical lantern, is thrown upon the film, and the reflected beam is passed through a lens of 6 or 8 inch focus, and received upon a white screen. As the phonograph imparts vibrations to the air in the thistle tube the soap film is vibrated, and gorgeous color effects in various figures are seen upon the screen.

A similar experiment is illustrated by Fig. 2. This is a modification of the opeidoscope. A thin

Fig. 1.-PROJECTION OF VI-BRATING SOAP FILM.

membrane of goldbeater's skin or rubber is stretched over a wooden or metallic cell and secured by a winding of thread. To the center of the membrane is cemented a small thin mirror. The light is received and reflected, as in the other case. When the membrane is vibrated, intricate bright figures appear on the screen, the figures varying with the character of the vibration.

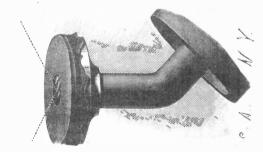


Fig. 2.- THE OPEIDOSCOPE APPLIED TO THE PHO-NOGRAPH.

Scientific American, July 26, 1876

these binding posts short wires lead to the knobs of switches used in controlling the flow of electricity thru the bulb. In readymade sets these connections are all made and the user need not trace them. If he buys parts and assembles his own receiver, a pastime keenly enjoyed by persons who like to use their hands as well as their brains, he gets from the dealer a diagram and instructions telling how to put them together. The important part in making the connections is that they shall be correct, tight and strong (preferably soldered). The terminals must be marked so that when the batteries are attached the currents will flow thru the tube in the

right directions.

Where the current enters, the plus sign (+) is used. Where it leaves, the minus sign (-) appears. Currents from two sources may be sent in at the same entrance or out at the same exit, like streams of patrons at a movie show, but a wrong connection operates like an attempt to send the crowd out after the first show while a long and impatient line is struggling to get in for the second.

(Continued on page 6)

49

THE SATURDAY EVENING POST

Now-just press a button—that's all' TOUGHT TUNING

BRINGS IN YOUR STATION INSTANTLY—SILENTLY—AUTOMATICALLY

WHEN a radio tunes itself—that's news!
And this is exactly what the new General
Electric Radio does—it actually tunes itself!

All you do is pick your program—by pressing a button. There are separate buttons for your favorite stations—each one marked with station letters. The merest touch of your finger—and instantly your program's there! Automatically tuned, with hairline precision!

Touch Tuning makes manual dialing a thing of the past. It's the radio sensation of the year.

The new G-E Tone Monitor brings tone perfection

In addition to Touch Tuning, the new General Electric Radio brings you another remarkable achievement—the G-E Tone Monitor, a radio circuit of radically new design. The Tone Monitor corrects distortion. It assures life-like reproduction of the highest and lowest notes of each orchestral instrument. Nor is this remarkable improvement confined to the higher-priced G-E Radios alone. Many of the moderately priced G-E sets offer this new feature.

\$10* down delivers any G-E Touch Tuning Radio into your home

All the new 1938 G-E Radios are now on demonstration at your nearest General Electric dealer's. You can own any model you choose for only a few dollars down.

12 Super Value G-E Models to Select from

Beautiful new console models, personal radios, armchair radios, from \$19,95 to \$295. Prices slightly higher South and West. Subject to change without notice.

Your G-E Radio Dealer will arrange liberal terms

*Through General Electric Contracts Corp.





LISTEN TO THE G-E HOUR OF CHARM, MONDAY EVENINGS, 9:30 E. D. S. T. NB C RED NETWORK

Radio for the Beginner

To forestall the hopelessness that seizes the adult radio novice when some high school youth explains that the plus and minus signs on all electrical apparatus are minus signs on all electrical apparatus are wrong, and that the electrons whose movements make up the electric current really go into the door marked "Exit" and out of the one marked "Entrance," let it be said that the youth is quite right, but that for practical purposes it makes no difference whatever. By the time Mr. Electron and his movements were discovered several millions of electrical devices were in use, all with the plus and minus signs apuse, all with the plus and minus signs apuse, all with the plus and minus signs appearing where they had been placed on the assumption that the current flowed from the positive to the negative pole or sign. These signs were permitted to remain where they were, and millions like them were located in corresponding positions, for the same reason that we turn our clocks ahead to save daylight instead of clocks ahead to save daylight instead of getting up an hour earlier by the clock. It was an easier way, and it worked.

On the radio batteries the plus terminals are painted red, or else red wires lead from them, except when the plus sign can be stamped so as to be easily seen. There need be no mistake. Having connected the plus terminal of the battery to the plus terminal on the receiver where the battery's terminal on the receiver where the battery's current should enter, there is only one place left on battery and receiver to attach the wire connecting the minus terminals, so that of course is the correct place. It might be possible, by looking all over the receiver, to find a wrong place to connect, but as the plus and minus terminals for any one circuit are practically always side by one circuit are practically always side by side there is small chance for error. The antenna, ground and 'phone connections are all plainly marked to distinguish them from battery connections and from each

other.

It is possible, thru carelessness, to connet is possible, thru carelessness, to connect the wrong battery to the wrong terminals. There is a big, heavy (storage) battery called the "A" battery. This has a low voltage, usually from four to six volts pressure. The smaller, lighter (dry) battery, called the "B" battery, has heavier voltage. By connecting the "B" battery where the "A" battery belongs it is easy to find out the difference. It costs at least to find out the difference. It costs at least \$5.00 each time this is done, and in the present scarcity of vacuum tubes there is present scarcity of vacuum tubes there is also a delay of several weeks before a new one can be secured. The filament in the tube, which is the fine wire that lights up when you turn on the juice, will not stand for more than four volts as a rule. Some kinds will stand only 1½ volts. It is a very good investment of time to study until you are sure about the connections before you make them. For the protection of the user the proper voltage is usually

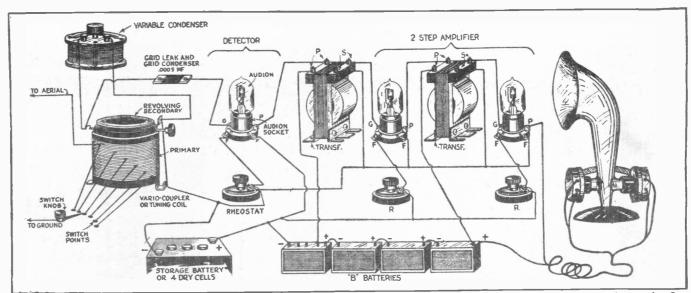
of the user the proper voltage is usually marked at the terminals.

The "B" battery supplies current for the plate, which is the largest piece of metal seen inside the vacuum tube. The plate can stand a comparatively heavy charge. Usually about 22½ volts pressure is used on the plate of a receiving tube. The grid, which is between the filament and the plate, is taken care of by the wiring. There is no separate battery to be connected with it.

Having the connections all properly made, the game is to turn the current into the filament very slowly, not snap it on as you would an electric light. Light is not what is needed. Some filaments get only red hot. Some shine more brightly. An inventor tells us that we may soon be using filaments that do not get hot enough to glow at all and that they will last many times longer than hot filaments.

The juice is turned on with a knob that has a tongue which passes over what looks like a coil spring bent into the form of a circle that does not quite come together. This is the filament rheostat. The further you turn, the more current you send to the filament. At the start turn on only prough filament. At the start, turn on only enough current to produce a visible glow in the filament and stop there.

The flow of current from the "B" battery to the plate is sometimes regulated in



A Specially Prepared Perspective Diagram Which Everyone Can Understand, Showing How the Three Vacuum Tubes (Audions) and Transformers Are Connected in a Detector and Two-Step Amplifier Receiving Set, Suitable for Radio Telegraphy or Radiophony. All of the Parts Are Pretty Well Standardized; the Variable Condenser Connected Across the Secondary of the Vario-coupler Should Have .001 M. F. Maximum Capacity; the "B" Battery Units Give 22". Volts Each; the Storage Battery Is a 6-Volt Type Having Three Cells; the Phones Are of 2,000 to 3,000 Ohms Resistance, and Where a Single Large Horn Is Employed as a Loud-talker, It is Preferable to Use a Single Type "C" Baldwin Amplifying Receiver; the Detector Bulb May Be a No. 200 U. V. Type, and the Amplifier Bulbs of the 201 U. V. Type.

the same way, but more often the adjust-ments are made on the battery itself. Some bulbs require less delicate adjust-ment of the plate current than others. The battery should be fitted to the requirements of the bulb used

the vacuum tube, the next step is to tune the receiver to the station you want to hear. The dealer usually tells the customer about where to set the knobs and switches to get the concerts, or the amateur messages, or the traffic from the govern-ment stations. Simple tuners need only the careful turning of a single handle to ceiver so that you know you are tuned accurately on that wave length. Then by making adjustments on the primary side you can tune it to the secondary side and when they are in resonance the station will be heard if it is possible to hear it at that moment. A soft click in the phones is a sign that the primary and secondary circuits are tuned to each other.

Sometimes the light inside the bulb turns blue and the sound becomes rasping. The thing to do is to turn off the light and start over again. No damage has been done.

make a great difference.

If the "body capacity" effect is too strong it may be reduced by using a rubber on the end of a long pencil or piece of wood dowel pin five to six inches long, to turn the knobs. Hair-breadth adjustments are sometimes necessary, especially in long

distance work.

When the results are as good as can be obtained, the position of the various knobs and switches should be written down for future reference. Altho the same station cannot always be tuned in on different days by making precisely the same adjustments, a good amateur operator, such as you will be after a few weeks of experience, will often set the knobs and switches first, then turn on the current for the vacuum tube

1924 ad

of the bulb used.

Both currents having been started thru

the careful turning of a single handle to cover their entire range and discover every station that can be heard at the moment. On others there is a "secondary" side and a "primary" side, each with two or three control knobs. Usually the secondary side can be adjusted for the station you want to hear by following directions supplied with the tuner. If you want to hear Newark on 360 meters you can set the controls on the secondary side of the receiver so that you know you are tuned

If sounds are heard, but are too faint to be understood, a slight increase in the filament current may make them louder. When a hissing sound is heard, like a frying pan greeting a fresh egg that has just dropped into it, it is time to stop and possibly turn back a little. Slight changes in the plate current may increase the volume of the music or voices heard. Also the finer adjustment of the inductances and condensers which are represented by the knobs on the face of the receiver may

Dept. 3

DUCK'S Big 256 pp. Combined Radio Catalog and Text Book—No. 16. Mailed for 25c. in coin or money order. Not sent otherwise. Full of radio information and hook-ups. Prices extraordinarily attractive. Ever since 1909 Duck's catalogs have blazed the way with the best and most dependable radio products. The William B. Duck Co Send postal for our special price list on all radio instruments in our catalog and countless new instruments and sets not in Catalog No. 16. Of special importance to those having catalog No. 16. THE WILLIAM B. DUCK CO.

711-12 ADAMS STREET

TOLEDO, OHIO

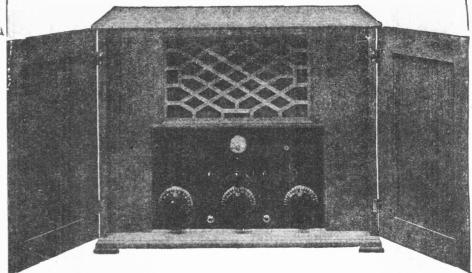
and get the station he wants at once.
You can amuse your friends by forming them into a human antenna. There are always dots and dashes in the air-especially when you wish they were not! Disconnect the antenna from the receiver and ask one guest to hold the end while the others form a chain by holding hands,

the last one placing his free hand on the antenna terminals of the receiver. The dots and dashes will come in just as well as they did over the wire alone. If they decrease in volume, drop one guest after another out of the chain until you discover who is the "dead" one retarding the flow of current.

Science and Invention for May, 1922

1924 ad





Model C64 Radak brings the voices of a continent to your home. Whether you crave the wonderful Symphony of a great city, the joy of Jazz, the wisdom of the speeches of the great, or the music of the plains, your wish will be gratified with this superlative receiver.

This five tube set is housed in a cabinet which will appeal to the artistic sense of the most critical judge. Three simple control knobs, equipped with remarkable vernier dials, may be mastered in a few hours by any one.

The set is complete, containing as it does a built-in Loud Speaker with wooden phonograph type horn, inside compartments for "B" batteries and "A" batteries if it is desired to use dry cell tubes. It provides two stages of tuned radio frequency amplification, tube detector and two stages of audio-frequency amplification. Licensed under Armstrong Regenerative Patent 1113149.

This set is the ultimate result of seventeen years continuous development by the oldest manufacturer of Radio in America.

Model C64 complete Receiver, without tubes or batteries......\$225.00

From the R4 at \$25.00 to the C64 five tube radio frequency set at \$225.00 THE BASIS OF RADAK SUPREMACY lies in the fact that Radak sets are an engineered entity not a mere assembly of parts. Complete bulletin of all models sent on request.

Manufactured by

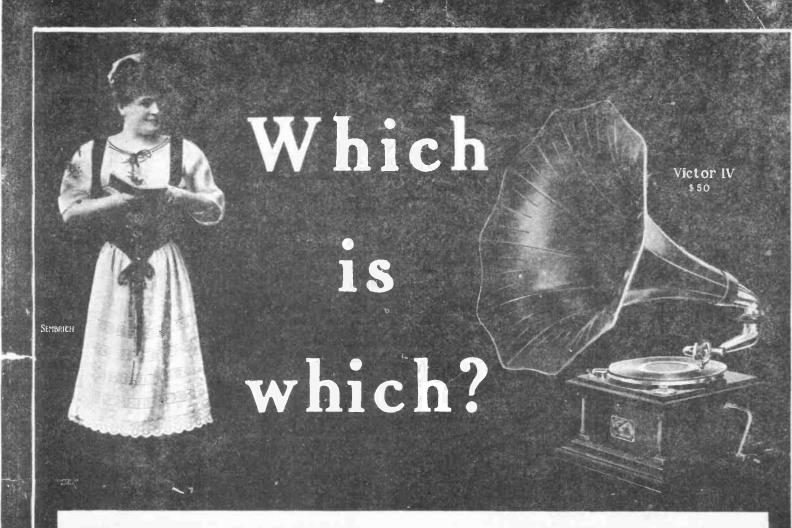
CLAPP-EASTHAM COMPANY

107 MAIN STREET, CAMBRIDGE, MASS.

New York, N. Y. 395 Broadway

Cleveland, Ohio Caxton Bldg.

San Francisco, Cal. 709 Mission St.



You think you can tell the difference between hearing grand-opera artists sing and hearing their beautiful voices on the *Victor*. But can you?

In the opera-house corridor scene in "The Pit" at Ye Liberty Theatre, Oakland, Cal., the famous quartet from Rigoletto was sung by Caruso, Abott, Homer and Scotti on the *Victor*, and the delighted audience thought they were listening to the singers themselves.

Every day at the Waldorf-Astoria, New York, the grand-opera stars sing, accompanied by the hotel orchestra of sixteen pieces. The diners listen with rapt attention, craning their necks to get a glimpse of the singer. But it is a *Victor*.

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35 DV

Movie and Radio Guide, August 21, 1940



THE ALDRICH FAMILY. Standing: Henry Aldrich, the teen-age son, played by Ezra Stone, and his sister Mary Aldrich, played by Jone

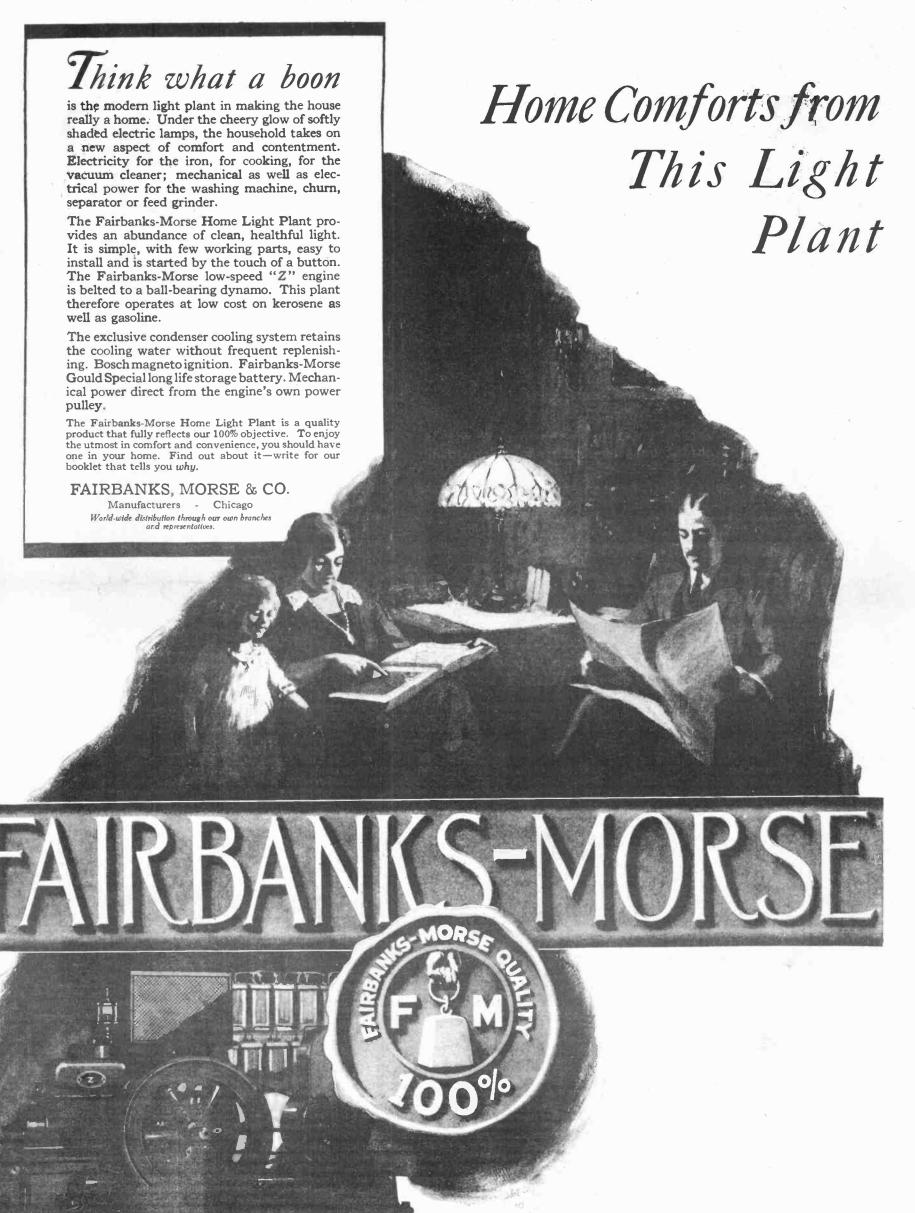
Allison. Seated: Alice Aldrich, his mother, played by Katherine Racht, and Sam Aldrich, his lawyer-father, played by House Jameson

who live down the block from you. Not rich, not poor, they're the kind of people who don't get in the newspapers; yet exerybody knows their son Henry, for the sound of his high-pitched, cracking voice (Ezra Stone's) is a Coast-to-Coast warning every Thursday night (NBC) that a laughable schoolboy scrap is at hand. The

THE Aldriches are like those people Aldriches, in fact, are a typical American family who get a typically American kick out of life, and who are afflicted with a typical teen-age son who has an uncanny penchant for getting into mischief. Without avail are the protests of his sister Mary Aldrich (Jone Allison), who is becoming quite a young lady and who consequently stands on her dignity. Without avail

also are the half-hearted paternal efforts of Sam Aldrich (House Jameson), who often succeeds only in getting into more mischief himself. Even Mother Aldrich (Katherine Racht) herself, upon whom the final responsibility rests, doesn't have much success in curbing her irrepressible son—and perhaps, like a nation of listeners, doesn't want to. She and they know

that Henry solves his own problems in the end. This is the "Aldrich Family," which first came to the networks as a novelty adaptation on Rudy Vallee's show of Ezra Stone's hit play, "What a Life," which was quickly snapped up by Ted Collins for the "Kate Smith Hour" and which now is radio's most enjoyable comedy serial in its own right—a Thursday night listening-treat.



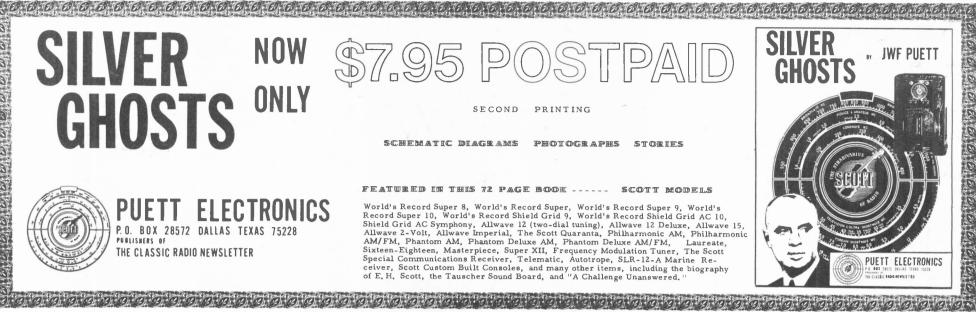
SILVER GHOSTS

SCHEMATIC DIAGRAMS PHOTOGRAPHS STORIES



FEATURED IN THIS 72 PAGE BOOK ---- SCOTT MODELS

World's Record Super 8, World's Record Super, World's Record Super 9, World's Record Super 10, World's Record Shield Grid 9, World's Record Shield Grid AC 10, Shield Grid AC Symphony, Allwave 12 (two-dial tuning), Allwave 12 Deluxe, Allwave 15, Allwave 2-Volt, Allwave Imperial, The Scott Quaranta, Philharmonic AM, Philharmonic AM, Phantom AM, Phantom Deluxe AM, Phantom Deluxe AM/FM, Laureate, Sixteen-Eighteen, Masterpiece, Super XII, Frequency Modulation Tuner, The Scott Special Communications Receiver, Telematic, Autotrope, SLR-12-A Marine Receiver, Scott Custom Built Consoles, and many other items, including the biography of E, H. Scott, the Tauscher Sound Board, and "A Challenge Unanswered."



A Compact Receiver



Description-This Junior Console 8-tube superheterodyne receiver is particularly adapted to small apartments. It is a full-range set and does not sacrifice performance for size. The receiver is equipped with the newly perfected super-control (multi-mu) tube, which minimizes cross talk, cuts down distor-

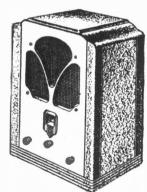
tion on strong signals and eliminates the necessity of a local-distant switch. It is provided with phonograph input terminals and an eight-inch dynamic speaker. The sets, with tubes in place, are tested at the factory and are chipped without at the factory and are shipped without removing the approved tubes from the sockets. This model measures 38½ inches high by 21¼ inches wide by 11¾ inches

deep.

Maker — General Electric Company, Bridgeport, Conn.

Table Model Receiver

Description-A new eight-tube superheterodyne receiver, of the table model size, to be known as the "Columette." The controls on the front of the cabinet include the station selector knob, a volume control and a tone control. The on-



off switch is mounted on the side of the cabinet. The receiver chassis and loud speaker are contained in a two-tone American walnut cabinet measuring less than a foot square at the bottom and only 19 inches in height.

Maker-Westinghouse Electric & Mfg.

Co., Mansfield, O.

Portable Trumpet Horn

Description - A six-foot stormproof portable horn which is in three demount-able sections. This type of horn is adapted to sound-amplifying equipment, especially on sound trucks where storage space is limited. It is provided with a cast aluminum throat and cast aluminum sections at all joints. This same style of



horn is made in non-demountable type. The horn measures 6 feet in length, the diameter of the bell is 30 inches and it weighs 27 pounds.

**Maker*—Racon Electric Co., Inc., 18

Washington Place, New York City.

These radios and equipment are from Radio News, July 1931. They were part of a Stevens Hotel in Chicago in 1931.

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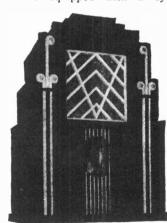
in height by 171/2 inches wide by 131/2 inches deep.

Maker—Ottawa Furniture Company, Holland, Michigan.

Description — This colonial grandfather clock model offers a unique and attractive appearance, with its space for books and bric-à-brac above and below the radio receiver. Seven tubes are employed in the radio set, four of which are of the screen-grid type. It is equipped with a full-range tone control and power dynamic speaker. The compartment for the reproducer contains an electric clock measuring approximately 5½ inches in diameter, which is mounted in the center of the speaker grille. The case is finished in mahogany veneer and measures 78½ inches

A Midget Receiver for A.C. and D.C. Supply

Description-This compact receiver is made in three types, namely, a.c., d.c. or battery type. The a.c. model utilizes three -24 type tubes, one -45 type tube and one -80 type rectifier tube. The d.c. and battery models employ three -32 type tubes and two -31 type tubes. The receiver is equipped with a dynamic



speaker, tone control and illuminated dial. Provision is made for electrical phonograph pick-up attachment. The cabinet is 19 inches high by 133/4 inches wide. It is modernistic in design, finished in ebony black with silver trimmings.

Maker—The Simplex Radio Company, Sandusky, Ohio.

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Classified ad rate: 6¢ per word. Photo ads: \$2.00 extra.

adline: 20th of the preceding month.

MISC.

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FOR SALE OR TRADE

OR SALE: Top portion of Westingouse binding posts to fit the eriolas, Jr. and Sr., the RS and eriola Amplifiers. These also it the RADA and others. \$1.00 ech, \$10.00 per dozen. Bottom ortion available upon request. adio cabinets for the Crosley 50 nd 51. Completely assembled with ll hardware but unfinished .. \$16.00 thich includes shipping. labinets for the Aeriolas and the implifiers. Completely assembled with all hardware but unfinished... 20.00 which includes shipping. iany, many other items coming. Roland Matson, 388 Concord Road, Bedford, Mass. 01730, Phone (617) 563 3877.

FOR SAIE OR TRADE: RARE TUBE REPLACEMENTS - 1940 STYLE
*D11A \$15; WD11R \$10; V99R \$7;
V2OR \$7; X99R \$5; X2OR \$5;
*A"--means newer type,
"R"--means replacement type.
Will trade tubes or Riders 3 to 14
for: Riders Vol's 23, 21, 20, 17
and index needed. K. Hanson,
3403 E. Broadway, Long Beach
California 90803.

FOR SALE: "Modern Electric's" 1908 to 1913. Total 33 copies. Extra fine condition. Sell one or all. Val Armbruster, 14082 Playford, Grants Pass, Oregon 97526.
Phone: 503 476-7185.

1930-1948 reproduced schematics for radios, alignment included. TV also. Send \$2.50 to Antakamatics, %James Antaki, 311 Bearridge Road, Pleasant-vill NY 10570.

FOR SALE: Solid-State power supply provides most needed "A", "B" and "C" voltages. Send SASE for special sheet. G. B. Schneider, 6848 Commonwealth, Parma Hgts, Ohio 44130.

\$1.00 for the newly published booklet "A Pocket Guide to Antique Radio Collecting." Antique Radio Press, Box 42, Rossville IN 46065.

FOR SALE OR TRADE

FOR SALE: Cassettes or reel to reel tapes of old time radio shows. Once again hear The Shadow, Amos and Andy, Al Jolson. Whatever your taste comedy, drama, western, variety, I have it all. Send \$1.00 (one dollar) for catalog to: Stuart Weiss, 136-49 Jewel Avenue, Flushing, New York 11367.

FOR SAIE OR TRADE: OLD STYLE CLOTH COVERED POWER CORD. Exact same 2-conductor wire as used on Radios, Lamps of the twenties and thirties: Brown, Gold or Ivory parallel conductor. Also Green/Yellow twisted pair. 20¢/foot or \$16.00/100' (assorted OK). Add \$1.00 Postage and Handling. SASE for samples. Robert Goodman, 7943 Ponce Ave., Canoga Park CA 91304.

FOR SAIE: Radiola V crystal detector driving three tube amplifier with UV 199 tubes and adaptors. Two stage amplicication, Brass case finished in wood grain paint. Best offer over \$125.00 takes it. Also Crosley 51 with tubes at \$65.00 plus shipping. Bud Weatherford, 332, 5th Ave. East Cresco IA 52136. Phone 319 547 2210.

FOR SALE: 5Th, 6A8, 6N6, 7B6 and 6C8, and other used tubes 50¢ each. Assorted rotary switches 10 for \$1.00. Assorted tubular electrolytic capacitors 10 for \$1.00. Clock radio timers 2 for \$1.00. Output transformers h for \$1.00. Assorted fuses 60 for \$1.00. Assorted tubular condensers 30 for \$1.00. Elmer Nelson, 82h So. Pleasent St., Princeton IL 61356.

SALE OR TRADE: Several hundred battery radios, speakers, etc. Deforest, Grebe, Federal, Tuska, Paragon, Kennedy, etc, WANTED: Early Grebe CR equipment. Photos availabel. Glen S. Streeter, 26008 Crenshaw Blvd. #106D, Torrance, California 90505. Phone: (213) 541 3279.

FOR SALE: 2000 assorted Radio Magazines, Books, Radio paper items, ask for list # R-P-3-77 send 50¢ and long SASE. Frank Krantz, 100 Osage Ave., Somerdale N. J. 08083.

WD11 Adaptors, use UX199, 120, VT24. No wiring changes, Radiola III's battery hook up included \$5.25 pp., 2 for \$9.25. Keith Parry, 17557 Horace St., Granada Hills CA 91344.

FOR SAIE: Hard cover copies of "Radio Trouble Finder," 1926 50p. \$6.00: "Radio Questions Answered," 1924 45p. \$6.00: "150 Radio Hook-ups," 1930 65p. \$10.00. A. Nolf, 620 Auburn Cr., Burlington, Ont. Canada L7L 5B2. Money orders only.

FOR SALE: New list of radios parts, etc. will be ready March 15.2 Send SASE for list. Burt Noyes, 4 Pinewood Dr., Stratham N.H. 03885.

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harness \$175. Crosley slant front
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shape. C. Byrnes, 20975 Valley
Green Drive, #290, Cupertino CA
95014.

FOR SAIE OR TRADE: "Wireless World Magazine," 106 issues 1922-3-4. Offer or \$200. "Radio Review," 30 issues bound 1919-1922 offer or \$75.00. Sell or trade for radios.
Merrill W. Bancroft, 169 South Row Road, Townsend, Mass. Oll69.

WANTED

WANTED: Any radio fan magazines.
Also, any radio magazine with commercial broadcast or star information. Exemples: "Radio Guide, Radio Stars, Radio-TV Mirror," etc. Also "Photoplay" magazines. 1 or 100. Fred L. Davis, 5106 Skippy Street, Memphis, Tennessee 38116.

WANTED: Service manual and schematic for Dumont Oscilloscope model 327, serial NO. 2XO3. This is the large professional Scope, Scope uses tubes and has printed circuits. Will pay Top Dollar. Ralph G. Maddox, Purgitsville W VA 26852.

WANTED: Scott, McMurdo Silver, Lincoln, and other classic receivers. Also pre-1930 battery sets, speakers, mikes, etc. J. E. Cunningham, 23W 675 Ardmore, Roselle, Ill. 60172.

WANTED: Automotive radios, parts, literature, vibrators, associated items, pay cash. Marvin Roth, 14500 LaBelle, Oak Park MI 48237. spartor AR-19 2.75 PP

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