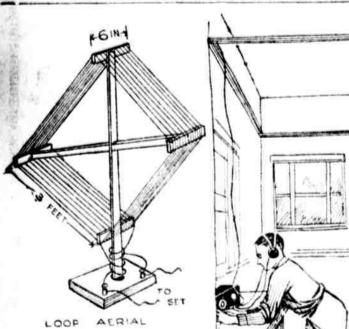
RADIO IN THE HOME



To the left is the loop aerial de-scribed in the accompanying article. The picture on the right shows an indoor aerial made by winding a long piece of wire around the pic-ture molding of a room, the wires being spaced about an inch apart. This makes a good aerial, but not by any means as efficient as one placed outdoors. The number of turns required for an aerial of this kind can be told only by experi-ence, but it is best to start with something like 150 to 200 feet of wire altogether. One end of the wire is made fast to the ceiling and lower end is brought directly to

the receiving set, and the set then has the ordinary ground wire

we are using the accepted type of aerial

When a discharge of electricity shoots across the atmosphere some dozens of miles above the earth it uses every wave length known to modern radio and will come crashing in on your phones remarking of the complicated and expensive regulations of the fire underwinters with regard to wiring, lead-in, lightning arresters and switches and grounds.

The only regulations you need worry above remarking of the complicated and expensive regulations of the fire underwinters with regard to wiring, lead-in, lightning arresters and switches and grounds. the and will come crashing in on your phones regardless of your tuning, and the storage battery, and we have alif you are using a loud-speaking de-

Today's Programs

Philadelphia Station WF1 (Strawbridge & Clothier) 1:16 P. M .- Puntar Lungen radio news _

> Philadelphia Station (WIP) (Gimbel Brothers)

155-A sured not-out regram. 230-Rectal by W. am H Cornic bart-tone, assist 2 by Mrs Frances Halouck plenist.

dimensions three feet on each side and serial whenever I want and receive dif- parts of the sky not pointed at by six inches wide, eight or ten turns of ferent wave lengths from 200 to 800, wire will be all that you require. Your The great advantage of the loop mized or suppressed. It is therefore

You need not adhere to the dimensions stations.

given or to the number of turns. Personally I like to put about twenty-four turns on such a loop, the turns spaced a quarter of an inch apart. I use a have wire, insulated by tape wherever it together the forms. Lastend of canbinding posts I make them fast to the frame and use two short pieces of wire from and use two short pieces of wire from the binding posts, the ends of these first being soldered to spring clips, which when you press two parts to the mean things one of the equality well because each when you let go allow these jaws to make you let go allow these jaws to the loop pointed directly to it. It then becomes a question of your skill in tuning the loop pointed directly to it. It then becomes a question of your skill in tuning the theorem and the opposite of the corners of the loop pointed directly to it. It then becomes a question of your skill in tuning the total the receiving set.

With these two jaws I can of course from the opposite of the corners of turns little the form and use two short pieces of wire will be completely suppressed.

Steadily the men whose independence was being taken away from them opposite of ill health, most men and women can pay, and which many of them do pay.

Steadily the men whose independence of lite and the surface of pleasures, and with the surface of pleasures, and with the surface of pleasures, and with many battles over their stubborn the loop pointed directly to it. It then becomes a question of your skill in tuning \$5\$ from the office.

They pay by eliminating from their lives many things that are pleasant; by call the surface of the total properties.

The total the men whose independence was being taken away from them oppy, and which many of them do pay.

But they pay with the retain pay, and which many of them do pay.

But they pay with the surface of pleasures, and with the sacrifice of pleasures, and with many battles over their stubborn with but they are the same things our grand-futhers used on their suspenders.

wire will be all that you require. Your The great advantage of the loop regular aerial wire will do for this or aerial, if you are in a city where there regular nerial wire will do for this or you can use a good insulated wire not less than about No. 14 gauge. The wire is wound in a continuous spiral around the loop and the two ends are made fast to the binding posts shown on the stand.

are a number of broadcasting stations, is that the loop receives only when one corner of it is pointed directly at the waves coming from the sending station. This ability of the loop is used by the government in its radio compass

it touches the frame. Instead of con-necting the ends of this wire to the or will not come in at all. Those binding posts I make them fast to the which are at right angles to the loop

well worth while if you are the fortu-nate possessor of a bank account large enough to permit it, to add two stages of amplification to your set, take down your outdoor aerial entirely and use a

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ELSIE SLEIGH SKIDS Probation Rearrested for Robbing Official

Elsie Sleigh, seventeen, of East Penframe and use two short pieces of wire for the binding posts, the ends of these wifes being soldered to spring clips, which when you press two parts together open their saw-tooth jaws, and when you let go allow these jaws to the loop will respond to both of them equally well because each when you let go allow these jaws to the loop will respond to both of them equally well because each station will have one of the corners of the loop pointed directly to it. It then the loop property is the loop pointed directly to it. It then the loop of the loop pointed directly to it. It then the loop of the loop pointed directly to it. It then the loop of the loop pointed directly to it. It then the loop of the loop pointed directly to it. It then the loop officer.

throw any number of turns into the cause the static which originates in the crossing on the ferry.

Uncommon Sense : The Price of Independence By JOHN BLAKE

INDEPENDENCE, one of the most and patience to do what he has to do desirable things in existence, has the hope of it makes monotonous work always been expensive. Our forefathers paid for it with their

blood, and held it cheap at the price. MOST of the wars that have blasted almost always within the reach of those who will pay the price. It is not a low price. It is not a

dependence.

Gradually designing men have according to their price which most men would call even at that price.

Gradually designing men have according to their reasonable.

It is not a low price. It is not a fice. And surely it is a rare bargain at that price.

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on the installment plan, not to be de livered till paid for.

YET, after fifty, it is worth all it costs and more. It means not only leisure to enjoy things that have been forbidden in the past, but a clean conscience, and the satisfaction of having IT IS true that few obtain any full got out of life what one is entitled to

What cost thousands of people their happiness and their lives costs the mod-ern man and woman only toil and sacri-

GOLD MEDAL follows you to the Seashore

The thousands of our customers who will summer in Atlantic City, Ocean City, or nearby points, need have no misgivings about their milk supply during the vacation period.

GOLD MEDAL Service and Quality are available at your summer homes in the same degree of excellence and reliability as in Philadelphia, Camden, Chester and the suburbs.

GOLD MEDAL MILK, CREAM and CREAM BUTTERMILK—just as rich, fresh, pure and wholesome as you find them at home—are delivered from our large, well-equipped, sanitary seashore dairies, with unfailing regularity and courtesy.

SUPPLEE ICE CREAM-made in our Atlantic City plant-seldom equaled and never excelled, awaits you at hundreds of stores and restaurants, all over Atlantic City and Ocean City. There is one close to you.

SUPPLEE-WILLS-JONES ATLANTIC CITY OCEAN CITY





these who live in cities under such con-tions that they are not permitted to First, let it be thoroughly understood The Use of Indoor Aerials

The melancho'y days of radio are a comparison that a loop aerial My example of experience with loops suggest as a comparison that a loop aerial with

an audien built and with the best hockgrowing number of breadensting stations sponse in the telephones as will a crystal detector with a good outdoor aerial and for the rest of the summer we are confronted with a very different and more permissions kind of interference and one that cannot be trained out, if crystal would just barely bring the constant of the property of beets to you in your phones you will know that if you use a loop nerial you

This interference is "static," the discharge of powerful electric currents in
the atmosphere. Static is a giant radio
spark, but it is produced without any of
the fine adjusting devices of our modern transmitting stations, and it has no
respect for the wave-length regulations
of the United States or any other government.

ready described them.

The usual form of loop is like the picture on the left of the illustration with this article. As a matter of fact, it can be round or square or hexagon, but this square form is the easiest to the control of t make and is quite efficient. For a loop built in this way with

EUGENE G. WILE

No. 7 North Tenth Street Philadelphia, Pa. Everything in Radio

of Standard Makes Complete Radio Sets Installed

ARRESTERS Electric Service Supplies Co.



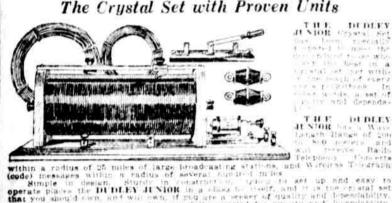
RADIO PHONE RECEIVING"

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Philadelphia, Pa.

TEN DAYS' TRIAL THE **DUDLEY JUNIOR** The Crystal Set with Proven Units



DUDLEY-VOUGHT CORPORATION