

A Twice Told Tale

A producer who supplies us with very fine quality coal dropped in for a visit. After passing the time of day he began talking about the non-production of coal. Apparently he became afraid that he was unduly discouraging, for he interrupted himself to assure us that in the opinion of his people, everything was working out alright. He considered it wise to buy lightly and only for immediate needs, because when the situation cleared, coal was likely to be lower. He begged us not to get scared, a little patience was all that was needed.

At this point we handed him a recent advertisement headed—"There is no reason to be panicky." "That's what we are saying to our friends," we told him. He read it and looked up with a grin. "Why, that's just what I came to tell you."



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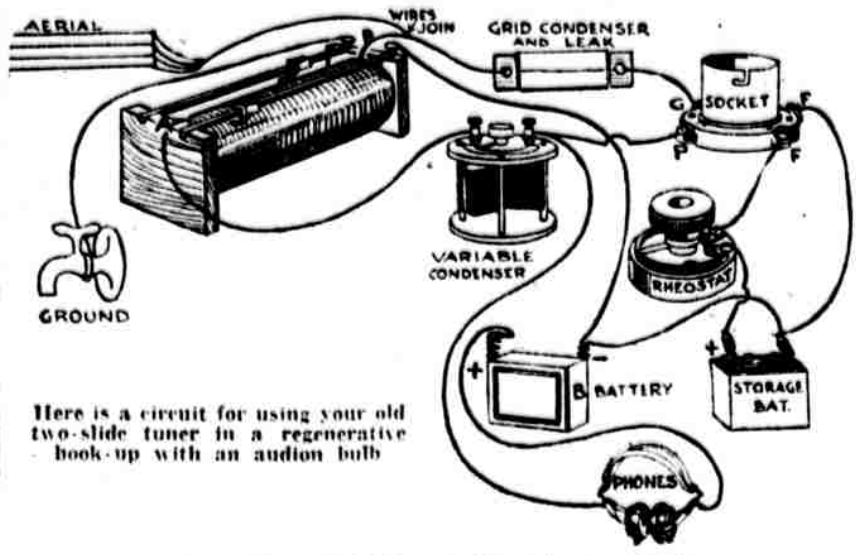
CAPE \$14.50 COAT \$17.00. Depend on size and weight of fabric selected.

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RADIO IN THE HOME

By HENRY M. NEELY



Here is a circuit for using your old two-slide tuner in a regenerative look-up with an audio bulb.

Use That Old Two-Slide Tuning Coil

Thousands of boys and men who became interested in wireless telegraphy in the early days made or bought the old-fashioned two-slide tuning coil. This, for the benefit of the newcomers, is simply one long continuous coil of wire wound around a cylinder. The insulation is removed all along the coil in a straight line, and over this bare-wire line or path two little metal strips can be slid along two rods. As they slide they make contact with the wires over which they pass and the current flows from the wire through the blade or strip along the metal rod on which it slides and so to the binding posts and the receiving set.

This was the best of the home-made devices in the old days, and it was the cheapest of the good devices which the manufacturer turned out. Most of us wanted "loose couplers" with one coil (the secondary), sliding in and out of the other (the primary). We thought it was necessary to have a primary and secondary, and indeed it was. But when we used the old two-slide tuner we really had both primary and secondary without knowing it, unless we had gone rather far in the study of the then infant science.

The part of the coil included between the aerial connection and the ground connection was the primary; the other was the secondary. It was what the high-power radio scientists called "conductive" coupling—though unscientific readers need not worry about that.

In spite of these high-sounding words the simple fact that we are leading up to is that the old two-slide tuner can be taken down from the garage, the dust brushed off and it can be hooked up to the modern audio bulb so as to give mighty good results as a "regenerative" set and you can get the broadcast concerts on it just about as well as with any of the simple single-circuit look-ups.

The old tuner, when used with the audio bulb, is not, though a single-circuit arrangement. It is better. You have all seen, in the stores, those attractive little mountings that use three coils—either the neat hexagonal coils of the spider web. One coil is used as the primary, one as the secondary, and one as the "tickler." As we have already learned in these talks, the primary is the coil through which the received currents flow from the aerial to the ground, those in turn "tick" or create currents in the secondary, though the two coils have no real connection, and the "tickler" takes the strong electricity from the "B" battery and makes it boost up and strengthen the "induced" currents in the secondary.

This three-coil look-up is a very popular one, but is likely to be expensive. The two-slide tuner, as used in the illustration, becomes all three coils at once and will do just about anything that the three-coil arrangement will do. The first part of the coil, between the aerial and the ground, is the primary; the part between the two slides is the secondary, and the part between the second slide and the connection to the variable condenser becomes the tickler. By moving the slides, but that leaves the third part, or tickler, fixed, so we put in the variable condenser to tune that and to keep the "B" battery from short-circuiting itself as it would do if the condenser were not there.

The usual two-slide tuner has a binding post for each slide, and one for the ground wire. In this circuit you must make one connection at the end of the ground connection. You can solder the end of a wire there as indicated, or if the construction of your tuner admits it, you can lead a string of brass and solder it to the wooden upright on one end so that the edge of the brass goes down solidly and makes contact with the bare wire on the coil.

In tuning in signals, give a good amount of current on the primary part—say a four-inch diameter coil perhaps twenty or thirty, depending on your aerial. Then use your one hand for the other slide and the other hand for the variable condenser. Slide the slider up toward the first one until you hear a mounting in the phones. Then slowly bring it away, all the time turning the condenser around all the way one way and back again.

Hunting by this method will soon give you a signal, if the wiring is correctly done. And the lack of connection of the condenser will give you a very fair ability to tune out interference. Naturally this look-up is for audio bulb only and will not do for a crystal detector.

For the benefit of those who have never used a two-slide tuner, and who are not particularly fond of coil work, we will soon give directions for building this little instrument, for it is remarkably easy to construct and any boy can make one that will give him the broadcast and introduce him to the art of tuning.

PHYSICIAN BURNED

Dr. A. H. Mellers, Roxborough Victim of Acid Explosion. Dr. A. H. Mellers, 348 Locust avenue, Roxborough, nearly lost his sight yesterday afternoon when some acid he was mixing in his laboratory exploded. He was treated in the Memorial Hospital for lacerations of the hands and face.

WITH TALES IN LONDON

The apartment of a London newspaper editor is prominently featured in the results of the morning in London. It is a big, bright, airy room, with a view of the city from the leading news centers of the world. "Make It a Habit" - 40c.

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Clothes that make the man are clothes that are becoming without being conspicuous. We have been making clothes of this kind for 28 years.

Our moderate prices will appeal to you.

W.S. Jones, Inc., Custom Tailoring, 1116 Walnut Street.

She could eat anything

—without indigestion or sleeplessness

For a time she had been troubled with gas after her evening meal. The distress was most painful after eating potatoes or other starchy foods, of which she was very fond.

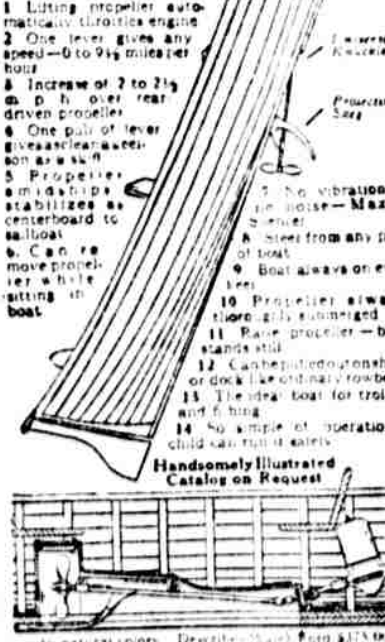
Then she started taking two cakes of Fleischmann's Yeast every night between her evening meal and bedtime. She poured about a half cup of boiling hot water over the yeast cakes, stirred them thoroughly, added a little cold water and drank. She found she could eat anything and sleep splendidly afterward.

Thousands of men and women are finding that Fleischmann's Yeast corrects stomach and intestinal troubles. It promotes the flow of bile and pancreatic juice. Appetite is always kept normal and you are protected against indigestion.

Add 2 to 3 cakes of Fleischmann's Yeast to your daily diet. You will find that your whole digestive system is greatly benefited. Be sure it's Fleischmann's Yeast—the familiar tin-foil package with the yellow label. Place a standing order with your grocer for Fleischmann's Yeast.

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Auction Bridge Common Sense Bidding By A. R. Metcalfe. A complete guide to auction bidding; easiest to learn; most effective. At All Bookstores. A. C. McClurg & Co., Publishers.

FOR ITS OWN SAKE OR FOR THE SERVICE IT GIVES

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