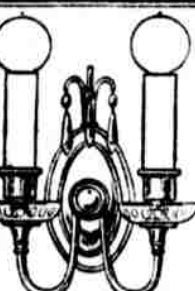


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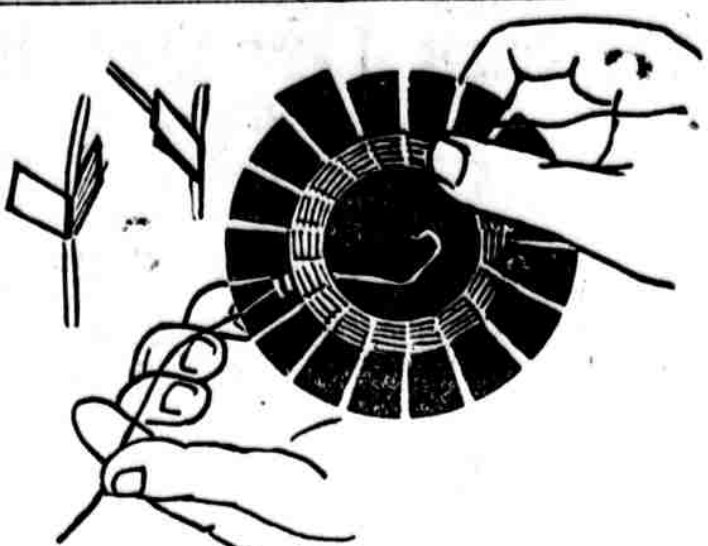
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RADIO IN THE HOME

By HENRY M. NEELY



This is how a spider-web coil is wound and "tapped." For tapping, little pieces of thin brass or copper are best, cut as explained in the article. The upper sketches show how the metal strips are used

Tapping the Spiderweb Coils

Have you wound those two spiderweb coils we spoke about in the last lesson? They don't look much as though they would produce much, do they? I can only say this about them: in my own station, I have every conceivable kind of receiving instrument and I'll back a couple of spiderwebs against any other apparatus an amateur can make for satisfactory work in receiving 300-meter broadcasts, either with crystal or audion bulb. And I have one big fellow that I made especially to get me the Arlington time tick on 250 meters, that does the trick right after night on an audion without secondary, tickler, variometer, condenser or anything else. But after you have wound your two six-inch coils, you've simply got to face the job of "tapping" them. A tap is made in this way: you first scrape off the cotton insulation from one spot on the proper turn of wire. Then you cut from your spool about eight inches of wire, which we will call the "tap." Scrape off just a bit of the cotton from one end of this. As a matter of fact, it won't be necessary to scrape. You can simply push the cotton back from the end. Now the bare metal of the end of the tap must be metallically joined to the bare spot you have scraped in the coil wire. I have found the most convenient method to be as follows: I get a sheet of very thin brass or copper, about the thickness of a piece of good writing paper, and cut twenty little strips, each only about a quarter of an inch long and an eighth of an inch wide. At the spot on the coil where I am going to make the tap, I slide one of these little pieces under the chosen wire and then with a sharp knife cut the cotton insulation and lay the wire bare right over this little metal strip. Then I insert the bare end of the tap wire under this bare coil wire, and with the pliers turn up the end and squeeze it together so that it is around the coil wire. Then I solder coil wire, tap wire and metal strip all together with just a drop of solder. That done, I take the pliers and bend up the metal strip, squeezing its two flaps tightly together. That makes a good electrical joint. You must thus tap each of the first ten turns on your coil. Also after that you must tap each tenth turn to the outside. This means that you have tapped turns Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9 and turns Nos. 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100. In tapping, be sure that you do not arrange the metal strips so that they can touch each other. This would give you a short circuit. You don't have to

PASTOR ACCEPTS CALL

The Rev. Albert Cheatham to Go to Prospect Park Baptist Church A call to the pastorate of the Prospect Park Baptist Church has been accepted by the Rev. Albert C. Cheatham, of the class of 1922 of Crozier Seminary. Dr. Cheatham was born in Canton, O., and graduated from the Baltimore City College in 1911, and from the University of Richmond in 1918. He was editor of the Richmond University Messenger, and was on the editorial staff of other religious papers, besides writing the debating medal two consecutive years. From a scholastic point of view he was the leader of his class, won the Greek medal in 1918 and is a member of the Tau Kappa Alpha and Tri Phi Fraternities and the Archelids, the honorary society of the University of Virginia. Following his graduation he was a reporter for a time on the Baltimore Sun and served on the advertising staff of that paper. He later toured China, Japan and Korea. In January, 1920, he entered Crozier Seminary, officiating while there as pastor of Overton Baptist Church of Baltimore.

STEAL \$800 IN GOWNS

Thieves Enter Overbrook Home While Family is Absent Thieves entered the home of Jacob D. Butler, on City Line, Overbrook, while the house was closed for the week-end and escaped with gowns valued at \$800. With the exception of a valuable beaded bag, the ladies' clothing was all that was taken. Entrance was gained through a window.

Held for Wife's Death

John H. Brown, a Negro, was arrested early today at Second and Lombard streets, on a charge of causing the death of his wife. Police say he beat his wife on March 24, and that she died last Sunday in a lying-in hospital. Brown lives at Eighth and Kater streets.

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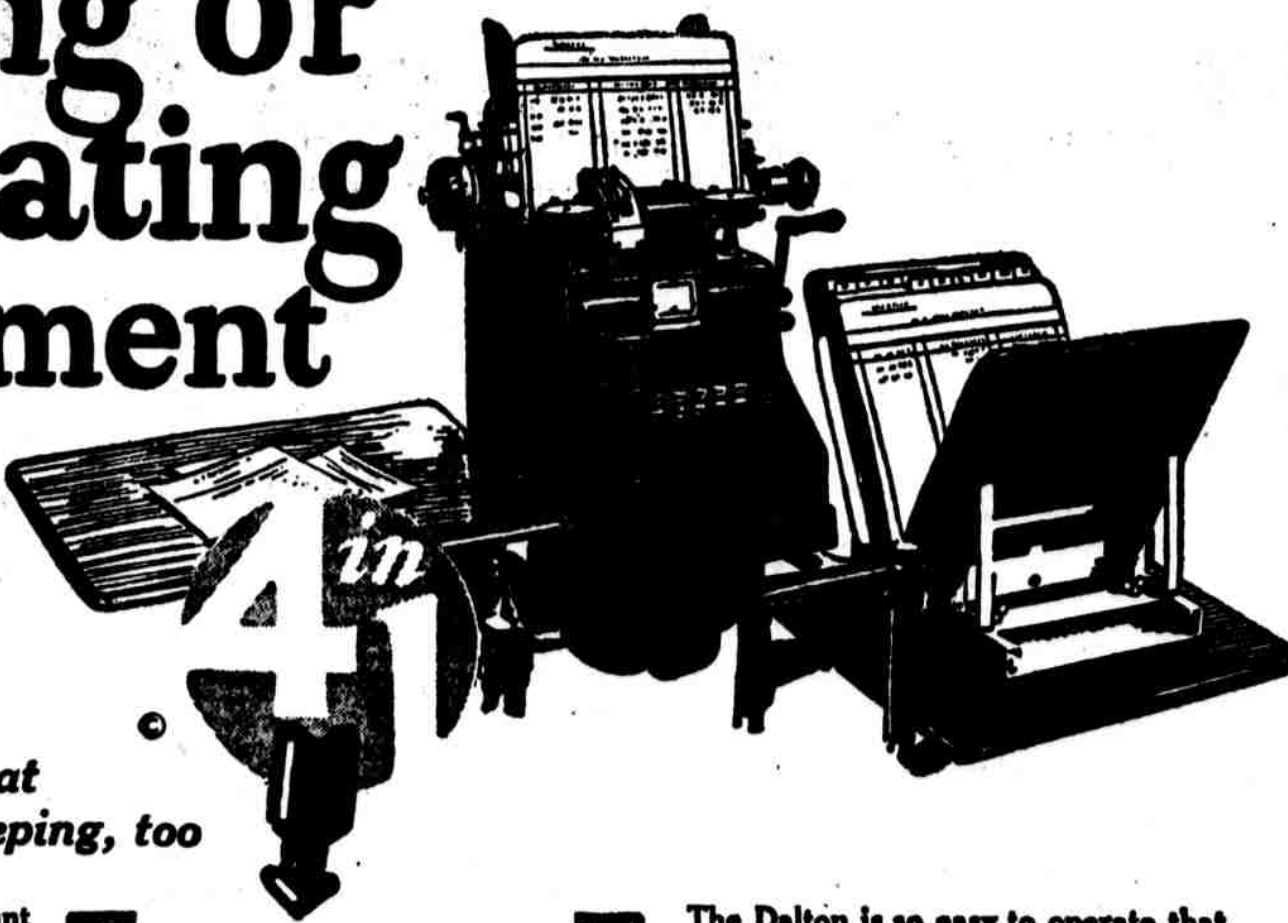
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