

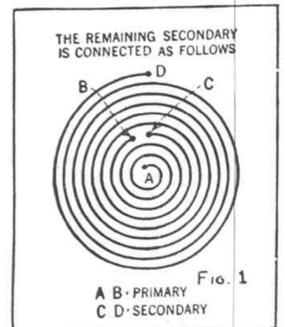
RADIO

Standard Coil in Roberts Circuit

Suggestion That Will Be of Interest to Builders of Radio Sets.

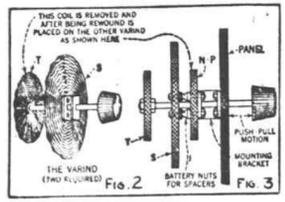
By C. C. SHUDER

Here is a suggestion that might be of interest. Most of the ready-made coils for the Roberts circuit are rather costly and in some instances appear to be somewhat weak mechanically as regards the adjustment of the tickler. I have used two Crosley variands such as is shown in Fig. 1 and while I have not a permanent installation,



they give promising results. The tapped coil on one of the variands may be used as a single circuit for the primary or may be used as the primary and secondary of the antenna coupler by dividing it into two sections as shown in Fig. 2.

On the second variand, the tapped coil was replaced with a winding of larger-sized wire for the secondary, the sliding coil used as the tickler and the coil intended for the tickler on the

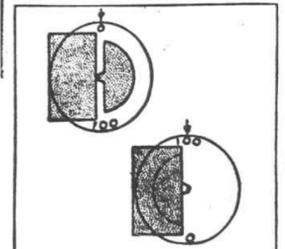


first unit, constituting the N-P form. See Fig. 3. This latter coil must be rewound with a pair of wires to provide the N-P winding.

A pleasing panel appearance is produced and the units are mechanically substantial.

Things to Know About Low Loss Condensers

In the midst of much talk about low loss coils and low loss condensers there seems to be much uncertainty on the part of buyers as to just what constitutes a low loss part of either variety. In a word, it may be said that the less dielectric or insulation



there is in either coil or condenser the lower the losses, all other factors being equal. This means thin winding forms for coils, preferably none at all, as in the basket-weave coil. For condensers it means barely enough insulation to separate the rotor and stator plates.

Crystal Detectors and the Reflex Circuits

The crystal detector is coming into wide use today through the medium of reflex circuits. One thing in favor of the crystal detector over the vacuum tube is that it is stable in operation and is noiseless. However, there are so many crystals on the market that one has to be careful in making a selection. When purchasing a crystal detector the first consideration is the maximum voltage that it will stand. Under ordinary conditions the detector should be able to stand up under a potential of at least 90 volts—a higher voltage if desirable. The fixed type of crystal detector is to be preferred. After the detector has been placed in the circuit it should be reversed to test for better results. It is characteristic for a crystal detector to work best in one direction. It is wise to have at least two detectors for the circuit using the crystal and each one should be given about a month's service. In other words, change your detector once a month.—New York World.

Detector Tube Should Be Correctly Wired

The best arrangement for the wiring of a soft detector tube is to connect the filament side of the secondary circuit to the negative terminal of the detector tube socket. When a hard tube, such as the UV-201A, is used as a detector, the filament wire from the secondary circuit should be connected to the positive socket terminal. Remember this point as well as the resistance of the rheostat when you change from one tube to the other.

Get Sharp Tuning With Wax Records

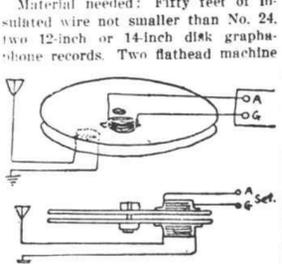
Phonograph Accessory Will Rejuvenate Set and Add Selectivity.

By LESTER B. McNELLY

We read a lot these days about "sharp tuning" and "selectivity," of the newer sets. We hear the "DX" hounds talking casually about getting stations that seem impossible. Sometimes those "DX" hounds get over-enthusiastic, but many times they are talking facts. The reason that we doubt many of their stories is because we cannot duplicate their feats, and the reason that many of us cannot duplicate their feats is because our sets tune too broadly.

If an expert diagnosed our trouble he would probably tell us that our aerial was too long or that our inductances were too close, and by the time he got through we would feel that our faithful old box of junk was in the single-circuit crystal class. The expert is probably right, but here's a little stunt that will rejuvenate the old set and give it selectivity to the nth degree.

Material needed: Fifty feet of insulated wire not smaller than No. 24, two 12-inch or 14-inch disk graphophone records. Two flathead machine



screws with nuts. One stove bolt 1/4 inch by 2 inches with two washers and two nuts.

Winding the Coils.—Take a round bottle about 2 inches in diameter and near the base at equal distances apart place three pieces of adhesive tape each 1 1/2 inches long. Spare 3 feet for a lead wire and then make 35 wraps around the bottle in a clockwise direction, keeping the successive turns to pile on each other in order to make the coil as compact as possible. Bring the ends of the tape up over the coil and use each tape to jiggle the coil loose from the bottle. Slide the coil off the bottle and use the tapes to bind the coil as tightly as possible. Clip the coil from the original bulk of wire leaving a 3-foot lead. The next coil is a duplicate of the first.

Drilling the Records.—Three inches from the center of the graphophone records drill a hole to accommodate the flathead machine screws and countersink the holes deeply enough to avoid any possible projection of the heads of the screws above the surface.

Neapolitan Nabisco Wafers at Andrews Brothers, three packages for 25c. The daintiest wafer obtainable at any price. Try them; you'll like them.

Our Neighbors

AROUND COLUMBUS

The Ladies Aid Society of the Baptist Church held a pleasant meeting with Miss Minnie Arledge last Tuesday afternoon. The next meeting will be with Mrs. Fred W. Blanton Tuesday afternoon, June 23rd at which new officers will be elected. It is hoped that every member will make a special effort to be present at this meeting.

Mrs. E. W. S. Cobb delightfully entertained the Outlook Club last Wednesday afternoon. Ferns, bowls of sweet peas and other garden flowers added to the attractiveness of the ever hospitable Cobb home. Mrs. J. W. McIntosh who represented the Club at a district meeting of Federated Club presidents held at the Battery Park Hotel in Asheville (the 23rd of May) made a most interesting and inspirational report of the meeting. As a result of suggestions brought back by Mrs. McIntosh the Club voted to buy a copy of Frederick Haskin's book on American Government and read and study a chapter of it at each meeting (which will probably be acted upon later). At the conclusion of business transactions and exchange of club books an interesting program on three of our Southern Novelists was given: Mrs. McIntosh reading a well written paper on James Lane Allen, Mrs. Cobb on John Fox, Jr. and Miss Kathrine McChesney, on Mrs. Burton Harrison. These papers were followed by a piano solo beautifully rendered by Mrs. H. F. Sikes, after which the hostess assisted by attractive young daughters, Ruth, Eloise and Emma Kathrine, served a delicious ice course to the following: Mrs. Fred W. Blanton, Mrs. J. W. Jack, Mrs. D. W. McChesney, Miss Kathrine McChesney, Mrs. Mrs. McIntosh, Miss Holderbaum and Mrs. Sikes.

The following handsomely entertained with interest in Columbus where the groom-to-be is well known and has many friends.

Mrs. Eugenia E. Swindler requests the honor of your presence at the marriage of her daughter Maggie Lee

to Mr. Frank Jackson on Wednesday morning June the twenty-fourth nineteen hundred and twenty-five at half after ten o'clock Landrum Baptist Church Landrum, South Carolina.

Another marriage of interest to Columbus people will take place Thursday evening, June 25th at the First Presbyterian Church in Abbe-

v. le, S. C., when Miss Helen Haigler of that place becomes the bride of Rev. S. Wilkes Dendy. Rev. Dendy has many friends in both Columbus and Tryon where he served as pastor of the Tryon Columbus Presbyterian churches last year while still a student at Columbia Seminary from which institution he recently graduated with high honors.

Little Miss Barbara Jarvis of Spencer is visiting in the home of Mr. and Mrs. J. W. McIntosh.

Mr. C. L. Wingo who taught in the Stearns High School two years ago spent a few hours with friends in Columbus Sunday enroute to his home near Laurens, S. C., from Florida where he taught last year.

Last week the Polk County Telephone Company erected another new line from Tryon to Columbus and seven new telephones were added to the number already existing in Columbus. The Telephone Company is planning to put in a switch board to connect with Greens Creek, Mill Springs and other sections of the county as soon as possible. All persons wishing a telephone notify Mr. Avant of Tryon who is president of the Company. Polk County, while progressive in many other lines is far behind in her number of rural telephones.

Miss Gertrude West and Mr. Lewie Denton spent Sunday with their aunt, Miss Nancy Denton, at Inman, S. C.

Miss Lonnie Owens entered Tryon Infirmary Monday for treatment and operation.

The following young people chaperoned by Mr. and Mrs. H. H. Carson drove by moonlight up to the "Battleship Main" on the Saluda highway last Thursday night and enjoyed a delightful weiner roast: Misses Curtis Hill, Harriett Feagan, Alice Thompson, Blanche Feagan, Mildred Reynolds, Jeanette Feagan, and Messrs. Paul Purcell, Culpepper Sukes, Robert McFarland, Max Feagan, Lewis Feagan and Mr. Wilson.

Monarch Special Club Offer at Andrews Brothers is a winner. One lot to each purchaser while they last \$3.55 value only \$2.88.

The Eternal Feminine

Two businessmen were comparing notes on their respective animals. Said one, "Well, how do you like that new mare of yours?" Said the other, "Oh, fairly well. But I wish now I'd bought a horse—ones always stopping to look at herself in the puddles."



John Lenihan of Chicago has just set a record in High School baseball by batting out 18 safe bases in 19 times at bat for a season's average of .947. He hit 5 singles, 12 two base hits and one home run.

Special Summer Offer, Tryon Homespun Suits, Complete with two pair of trousers \$65.00. Call at our show rooms for particulars. MOUNTAIN INDUSTRIES

Reducing London's Fogs

That London fogs are less severe than they used to be is probably due to the increasing use of electricity in the place of soft coal. London fog is dry fog due principally to the condensation of aqueous vapor upon the innumerable particles floating in the air in the smoke from soft coal fires.

Learn From Clarity

It is from the level of calm that we learn of every-day life, that we learn impressive and useful lessons.—Thackeray.

RICHARD LLOYD SAYS

The Crowd is Lost Without a Leader

Plodders are legion. It is the plodders make up the rank and file of the common people whom, as Lincoln said, since he made so many of them.

Plodders are not without their liabilities, industrial. They are the ones who carry along all the good from the past traveled.

Civilization advances no faster than design their own course. They control the few rare souls of clear vision of leadership, they who direct the future the next right move for the future.

The masters are the men who cause of their confidence, the plodders low them. Age limits leadership, or be supplanted by him who reaches champion is some day confronted by leaps ahead.

Masters are never afraid. As such they to be masters.

It is only the man who is subject to armor which nothing can penetrate, the ers, grumblers, stumblers. Their progress who bear them forward, with their own Sometimes the whole mass seems to not fear. They know the light of the Copyright, 1925 By Richard Lloyd

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