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RADIO EXPLAINED BY E. H. LEWIS INSTRUCTOR NEW YORK Y. M. C. A. RADIO SCHOOL

THE LOOP OR COIL AERIAL.

A loop aerial is one which is made by winding one or more turns of wire on an insulating framework in the form of a solenoid or spiral coil. The latter is sometimes referred to as a "pancake" coil. In general, the loop aerial will not pick up as much energy from passing radio waves as an antenna unless it is of nearly the same dimensions as the antenna. In some cases, however, a loop is found to be as effective as a regular antenna of larger dimensions than the coil.

the coil) it has directive properties. In receiving, therefore, the signals are of maximum strength, other things being equal, when the loop is properly oriented with regard to the sending station, and a lesser percentage of energy is picked up from other stations not in line with the plane of the loop. There is an obvious possibility of interference elimination, as well as a possibility of locating the direction of a sending station.

The advancing waves from a sending station are frequently distorted in their direction of propagation by conducting objects. If the loop aerial is operated in too close proximity to such an object the plane of the loop will not point directly to the station because of this distortion. The distortion is greatest when the loop is very close to the object and decreases with an increase in the distance separating the two. Such distortion effects are quite noticeable when operating a loop aerial beneath an iron or steel bridge or trolley wire. Operation within steel buildings also will frequently give great distortion. Large trees, fences, masts and towers will also give distortion if the loop aerial is too close by.

Loop aerials are most advantageous at the shorter wave lengths, and very good results have been had with their use when receiving from broadcasting stations at not too great distances. As a general rule, however, they do pick up as much energy as regular antennas, and frequently a radio frequency amplifier must be used.

APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER HEAD SET THAT WILL CATCH WEAK SIGNALS.

This new head set is designed to give satisfaction under the most severe operating conditions—that of weak signals. Bobbins are automatically wound, insuring proper number of ampere turns. Balanced windings are employed so that tone distortion is eliminated. Magnets are so designed as to have proper diaphragm pull in a low loss magnetic field. Head band construction insures comfortable fit. Receiver fork and rod lying close to the head does away with horn like effect. Adjustment once made will stay, regardless of handling. Shells of polished aluminum and all other parts are heavily nicked. Headband is covered with cloth webbing of same color as receiver cords. Each head set before leaving factory is rigidly inspected and thoroughly tested under actual operating conditions. The best quality insulated wire, and the Ohmic resistance is 2,500. An altogether very efficient and attractive head set, made to sell at a reasonable price. Total weight, including phone cords, fourteen ounces.



Will readers interested in these radio articles kindly communicate with the editor by mail?

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Buy One \$1,000 City of Saskatoon 6% Bond due July 1st, 1937 at \$985.41 Accrued interest to July 15th 2.30 Total cost \$987.71 This will give you an annual interest return (payable half-yearly) of \$60.00 Equivalent to (with profit on redemption) 6.15%

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PRICE'S DAIRY



Biliousness is Cured by HOOD'S PILLS

Employees of Canadian railways proceeding under Lemieux Act to combat wage cut.

Cherry and Currant Combinations

Currants and cherries are a highly favored combination of adept housewives. The cherry for flavor and texture, and the currant for added piquancy and clarifying of the preserve or jelly, make the combination particularly attractive.

There are many ways to utilize these fruits collectively and from the many are selected three samples which will give the housewife good recipes for making jelly, jam and preserve.

Take preserving first. To eight pounds of cherries, which have been stoned, add two pounds of currants, first removing the stems. Add sugar in equal weight to the fruit. After the sugar has dissolved cook together slowly thirty minutes and then proceed, as every housewife knows with sterilized jars.

For an excellent cherry jam with currant juice the following is recommended: To six pounds of cherries, stoned, allow two pounds of currants, stoned, and piece currants with half the pits of the cherries, cracked, in a double boiler and cook thirty minutes after straining through a linen bag. Add this liquor to the cherries, mashed, and cook to half the original quantity. Have ready a thick syrup and add six pounds of it to the fruit, stirring, skimming and cooking till the syrup beads. The jam is ready for the jars.

For a jelly use equal parts of cherries and currants, allowing them to stand in a crock on the back of the stove or in a slow oven till all juice is extracted, then strain, cook down one-third and measure, allowing one pound of sugar for each pint of juice. Beat separately, then cook together twenty minutes, or until it jells.

New Egyptian King. There is room for much curiosity as to what Fuad will do with a royal Egypt now that he has it.

In many respects the court of the new king is one of the most curious of all royal institutions. It is Mohammedan in its foundations, European in its outward guise. There is a prime minister instead of a grand vizier, and there is a court of etiquette which permits the ladies of

Nine New Teachers Secured.

Owing to some teachers resigning and others being replaced, the school management committee of the Board of Education, Belleville was faced with the problem of securing five new teachers for the High School and four teachers for the public schools. All the vacancies have been filled and the teaching staff will be complete when the schools re-open in September. The board believes that it has secured some excellent new teachers.

Hugh stocks of Canadian spruce, purchased by the British government during the war and remaining unsold ever since, have at last been disposed of. The timber, which had been forwarded to Britain before armistice, was taken over by a syndicate of importers.

The expedition to climb Mount Everest has been abandoned as a result of an avalanche in which seven porters were killed.

ASOP'S Fables THE CAT AND THE PIG



A Pig employed a faithful Cat. And worked him hard at this and then. One day the Pig's only child fell in the sea. His squalling wail Summoned the Cat, who saved him then. And brought him to his Dad again. "Hey, where's his hat?" the Pigker said, Wherest the poor Cat fainted dead. Moral—expressed in grammar crude, "A Pig ain't got no gratitude!"

From the Countryside

Frontenac

ECHO LAKE. July 10.—The crops are looking splendid and some have started to cut their hay. Picking berries is the order of the day. Blueberries are plentiful, but raspberries are scarce. Mrs. Holden spent last week with her sister here. The Ben brothers have

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SORE THROAT DR THOMAS' ECLECTRIC OIL

IS A COMMON AFFLICTION WHICH MAY LEAD TO A SERIOUS CONDITION. SIMILARLY A COUGH OR COLD MAY DEVELOP AND REQUIRE SUITABLE TREATMENT BEFORE IT IS OVERCOME. BUT IF TREATED AT ONCE MUCH DISCOMFORT AND SUFFERING MAY BE AVOIDED. AN OLD AND RELIABLE REMEDY IS FOUND IN

Brookside

July 11.—The farmers of this vicinity are having and report a good crop. Raspberry picking is the order of the day, but pickers report a small yield. Mr. and Mrs. Dumon Lake were at Alfred Galbraith's on Thursday. Mr. and Mrs. Lloyd Wallace visited at Howard Stover's on Sunday. Mrs. James McMan after spending two weeks with her daughter, Mrs. Earl Boyce, returned home on Wednesday.

Mrs. George Husband spent a couple of days with her father. Mr. and Earl Warner spent Sunday at Sydenham. Quite a number attended the Orange service at Harrowsmith on Sunday. The Brookside baseball boys played the married men Tuesday evening. Owing to the storm they did not finish. Quite a number attended the Orange celebrations at Harrowsmith and Centreville.

Prince Edward

BONGARD'S. July 11.—Miss Annie Hicks, daughter of the late Henry Hicks, and sister of O. W. Hicks, of this place, died on Monday aged 52 years. The funeral was held on Wednesday; interment at Cressy cemetery. Her mother predeceased her about two years ago. Mrs. L. R. Ericson and son, accompanied by Mr. and Mrs. J. Lumley and family of Detroit, Mich., former residents of this place were callers in this vicinity last week. Miss Marian Plews and guest, Miss Baumer, New Jersey, were recent guests of Mrs. Allan Harrison. Mr. and Mrs. R. VanDusen, Brockville, are spending some holidays with Mrs. Wright. Many here are attending the yacht races at Prinyer's Cove this week.

The famous Metador Ranch, comprising 120,000 acres of federal grazing lands north of the Saskatchewan River is being acquired by the Saskatchewan government on leasehold terms for community grazing purposes.