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"Superb Quality"

RADIO EXPLAINED

By LIEUT. JOHN R. IRWIN
INSTRUCTOR U. S. AIR SERVICE.

VACUUM TUBES IN TRANSMISSION.

The atoms in matter are constantly in motion and when they strike against one another electrons are jarred from an atom. This electron then moves about freely between the atoms. Heat has an effect upon this process. The higher the temperature the faster the atoms move and the more electrons given off. It is its action of electrons that is made use of in the vacuum tube. As the electrons have a negative charge, the charge remaining on the metal is positive. Therefore few of the electrons go very far, but are attracted back to the metal so that there is a kind of balance established between the outgoing and the returning electrons. Now, suppose a battery is connected between the electrodes, that is, between the hot filament and the cold plate. This battery is so connected as to make the plate positive with respect to the filament. The electrons being of positive electricity would be attracted by the plate and retained, returning no more to the filament. Thus the battery

causes a continuous flow of negative electrons from the filament to the plate. In other words, a current of negative electricity is flowing in space between the two electrodes of the tube. The current ceases when the filament is cold because no electrons are then escaping from the metal. No current will flow if the battery is wrongly connected, since, when the plate is negative with respect to the filament, the negative charge of the plate will repel the electrons back into the filament.

The distinction between direction of current and direction of electron flow must be carefully noted. It happens that for a great many years the direction from the positive toward the negative terminal has been arbitrarily called the direction of the current. It is now found that these little electrons travel from the negative toward the positive electrode. The direction of current and the direction of the motion of the electrons are therefore opposite.

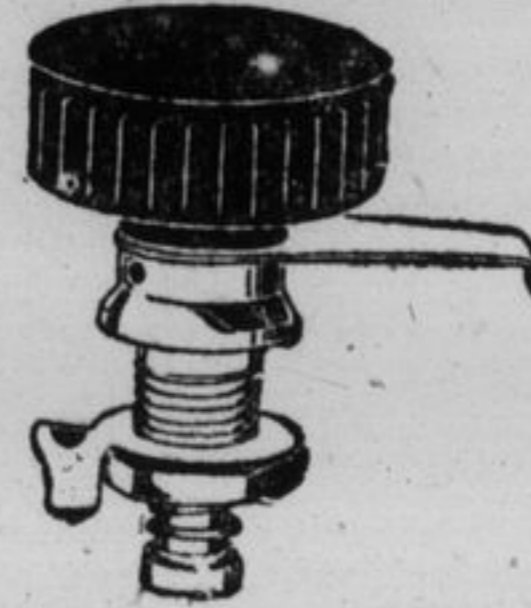
APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

WELL DESIGNED LEVER TYPE SWITCH.

For the man who makes his own this switch will hold a strong appeal. Is of the lever type, exceptionally well designed and constructed. Switch is secured to panel by means of holding nut at back. Large flange presents ample surface against panel. Terminal is held securely under bearing. Cannot turn when operated. Bearing is threaded on outside and extends through panel. Switch designed to clear spring and spring lock. Not necessary to disassemble switch when mounted. Adjustable spring at end of shaft insures uniform tension at all times. Operating knob is 1-1/16

inches in diameter, nickel plated. Drilling template for contacts



of 1 inch, also 1 1/4 inch radius accompanies each switch.

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

NEWS OFF THE WIRES IN CONDENSED FORM

Tidings From Places Far and Near Are Briefly Recounted.

The population of Windsor has increased 4,000 within the past twelve months, and is now close to the 41,000 mark.

It was estimated that more than 150,000 motor cars have been brought into service in Chicago, due to the street car strike.

The engagement of Suzanne Caubet, French actress and goddaughter of Sarah Bernhardt, to Crane Wilbur, movie actor and playwright, has been announced in Paris.

A Reuter despatch from Wellington for New Zealand, reported to parliament that during the past year 7,000 immigrants have been assisted in coming from the United Kingdom and that ninety-nine per cent. of them carried out their obligations.

N. K. Lafamme, K.C., chief counsel for D. C. Macarow, characterizes the statement of affairs of the Merchants Bank presented to shareholders on Feb. 8th, by Sir Montagu Allan as a "purely self-serving document drawn up by panic stricken capitalists."

Rev. J. D. Jones, noted English preacher, who plays golf with England's premier when Lloyd George has a few minutes to spare from trying to solve the European situation or settling the Irish question, is on his way to attend the Moody Institute Conference at Northfield, Mass.

Visitors at Harrowsmith. A Good Point to Spend the Summer Vacation.

Harrowsmith, Aug. 2.—Mrs. L. Baker spent a few days last week with her sister, Mrs. Gandier, Newburgh, who is critically ill. Mr. and Mrs. D. A. Gillies, Arrprior, were recent visitors at John Stewart's. Miss Donalds Foden, Toronto, is spending her vacation with relatives here.

Misses Helen and Jean Shibley left on Saturday to visit their grandparents in Yarker.

Mr. and Mrs. James Trousdale are visiting friends in Watertown, N.Y., and other American points. George

F. Fair has leased the hotel from E. Greaves and has taken possession. Miss Grace Thompson has accepted a position with Vandervoort Bros., Yarker. Mrs. Moss, Campbellford, and Mrs. John Hamilton, Brockville, are visiting at George Hamilton's.

Misses Mary Whittaker and Zella Morgan are guests of Mrs. J. Stewart. Mrs. Bert Patterson and family arrived on Saturday from the North-West to spend some time with her parents, Mr. and Mrs. J. Boyce. Mr. and Mrs. C. A. Copp are visiting friends in Toronto. Mrs. Willet Whitty, Kingston, spent a few days recently with Mrs. E. Whitty. Anniversary services will be held in St. Paul's church on Sunday next, morning and evening. George E. Morley, B.A., Toronto will conduct the services.

Capt. Atkins Rescued a Boy at Alexandria Bay, N.Y.

Alexandria Bay, N.Y., Aug. 3.—Capt. M. G. Atkins, owner of the touring boats of the Bay called the Maxine line, was the hero of the day, on Tuesday, when he effected a thrilling rescue on the main dock of the T. I. House. A small boy aged about six year fell off from the dock into about forty feet of water just as the Maxine boats were loading up for the tour of the islands. The incident created a stir of excitement among the many people there and when they saw the child go down for the first time several men threw ropes and various articles for the boy to grab hold of but apparently he was too excited and refused to grab. When he went down the second time Captain Atkins, who was one of the bystanders, jumped into the water with all of his heavy clothes on and effected a thrilling rescue before a large crowd who cheered when he succeeded in pulling the child ashore. A number of years ago Captain Atkins effected a similar rescue when the steamer St. Lawrence was the scene of the fall of a small boy from the upper deck. Captain Atkins as recently jumped into the water and saved the life of the boy. Since that time he has aided in several rescuing incidents and has gained an enviable reputation among the Bay people. The Smith boy is the son of Peter Smith of High street.

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Harvest Help Excursions Aug. 11th and 21st

To WINNIPEG—\$15.00
Plus 1/2 cent per mile beyond. Returning 1/2 cent per mile to Winnipeg, plus \$20.00.
Special accommodation from Kingston, connecting at Toronto with through special trains to Winnipeg. Meals and lunches served at reasonable prices. In restaurant cars. Special cars for women. Convertible (berth) colonist cars of latest design. Tickets and full information from J. P. Hailey, C.P. and T.A., G.T. 35, Kingston, Ont.

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RETURNING FARE \$20 from WINNIPEG
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GOING August 11th and 21st—Toronto, Caledon East, Beeton, Meaford, Collingwood, Penetang, Midland, Parry Sound, Sudbury, Capreol and east thereof in Ontario.
DATES August 14th and 23rd—Toronto, Inglewood and all stations south and west thereof in Ontario.

Special Trains Leave—(Standard Time)

Lv. Toronto Aug. 11th, 8:00 a.m., 12:30 noon, 6:00 p.m. and 10:30 p.m.
Lv. Toronto Aug. 21st, 12:30 noon, 6:00 p.m. and 10:30 p.m.
Lv. Ottawa Aug. 11th, 9:00 a.m., 1:00 p.m., 5:00 p.m., 11:45 p.m.
Lv. Ottawa Aug. 21st, 9:00 a.m., 5:00 p.m. and 11:45 p.m.

For Times from Other Stations See Special Train Service Poster

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PERCOLATORS—regular \$2.00, at \$1.40
HEAVY 14 GUAGE TEA KETTLES—regular \$4.00, at \$2.98

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