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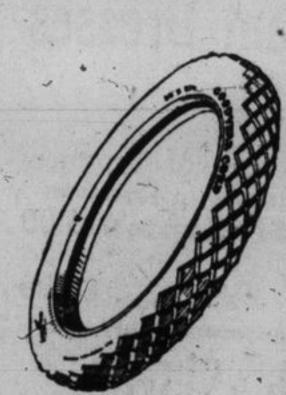
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4000 selected dealers sell Goodyear Tires

The Goodyear Tire & Rubber Company of Canada, Limited

Notes From Florida. Martins: Mr. and Mrs. R. Snider tons. Rev. Mr. and Mrs. W. Florida, July 27.—Haying and Spent Sunday with their daughter, of Belleville, were recent guests Mrs. A. Ryder. Miss Pansy Percy, years. serry-picking are the order of the Mrs. Byard Snider. Milton Jeffrey, at John Peter's. day. Mr. and Mrs. Walter Clark Hartington, has returned home afand family, and Miss Longmore, of | ter visiting his brother, C. W. Jet-Havelock, have returned home, af- frey. Mrs. Enoch Snider and sister. quarrel just.

Thrice is he armed that has his Eugene Percy. Mrs. Joseph Percy purchase the Hub block for a memter spending a week at Edward spent Wednesday at Walter Comp- | Better not quote than misquote.

# RADIO EXPLAINED INSTRUCTOR NEW YORK, Y.M.C.A. RADIO SCHOOL

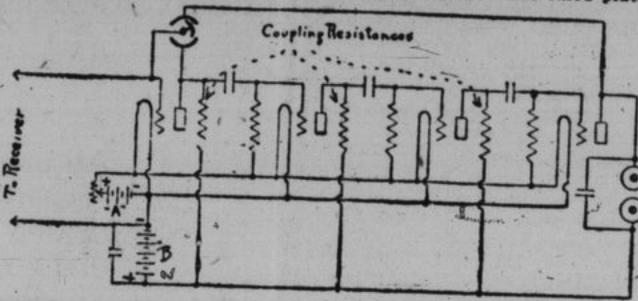
#### CASCADE RADIO FREQUENCY AMPLIFICATION W!TH CAPACITIVE FEED RACK.

Reaction of a plate circuit upon a grid circuit to produce regeneration/or autodyne effects may be accomplished by capacitive instead of inductive coupling of the two circuits. Care must be taken, however, to have the phase relations correct or there may be a weakening rather than a strengthening effect upon the received signals with increased regeneration.

In the diagram the interstage coupling is secured by means of resistances. This is more suitable for long than for short wave reception because of the capacitances of the tubes themselves.

regeneration would be very strong and the process of amplification and regeneration would repeat to produce even stronger effects. In this manner a signai voltage which would be incapable of operating a detector tube might be built up to a very great extent and made : operate the detector to good advantage. Beat frequencies may be generated if the feed back coupling is sufficiently great and continuous wave telegraph signals

are received. The coupling condenser is of very small capacity and usually consists of but two fixed and one movable plate. The fixed plates



In such a circuit an increase of potential applied to the grid of the first amplifier tube causes an increase of plate current but a decrease of plate potential in that tube because the drop across the resistance in the plate circuit increases with the current in that circuit. The potential applied to the grid of the second tube will therefore decrease in this case, as will also the plate current. The plate potential of the second tube will, however, increase. In a third tube there would be an increase of plate current and a decrease in plate potential, but in a fourth the plate current would decrease and the plate potential would increase when the potential on the grid of the first tube was increased. In the cond and fourth tubes the olate potential variations are therefore in phase with the grid potential variations of the first tube, but in the third they are out of phase. Coupling back from either the second or the fourth tube to the grid circuit of the first tube would produce positive regeneration and amplification of signals providing the reaction is proper!; controlled by the coupling condenser. The

are connected to the plates of the first and the last tubes, while the movable plate is connected to the grid of the f 't tube Regeneration is then controlled by adjusting the movable plate with respect to the two fixed plates. The condensers in the grid circuits of the second, third and fourth tubes are to prevent positive potentials being applied to the grid from the "B" battery. Grid leak resistances are therefore required to prevent choking of the tubes and the condensers should have small reactance compared to the grid leak resistances for the frequencies encountered. Since the grid condensers and teaks cause rectification when the signals are strong it is seen that there is a limiting effect. Strong signals or atmospherics are therefore suppressed to some extent. while the weak signals are amplified. If loud signals in the head telephones or in a loudspeaker are desired -udio frequency amplification may be used after the radio frequency stages. A power amplifier could also be used in case the loudspeaker required a large amount of power, comparatively, for effective working.

# APPARATUS ND DEVICES

#### By RALPH BROWN, RADIO ENGINEER

HEAD PLATES LAST INDEFINITELY IN THIS BATTERY The lead plate battery for use seems especially attractive, as as an A battery or filament

lighting battery has many ad-

vantages which commend it as such. The one described here Will readers interested in these with the editor by mail?

it does away with some of the disadvantages of this type of battery. They are made in these capacities: Six volt 40 ampere hours, 6 volt 60 ampere hours, 6 volt 80 ampere hours and 6 volt 100 ampere hours. A new electrolyte is made use of, the semi-solid type, which does away with sulphation and which naturally obviates the spilling of the acid. On tests of abnormal discharge the plates have not buckled and the highest electrical efficiency and voltage maintenance was noted. Another feature is that the battery can stand idle indefinitely without injury to the plates. A hardwood case is furnished as stock, but at a small extra charge a hard rubber case is furnished. The price compares favorably with the ordinary lead plate type.

radio articles kindly communicate

BACK TO OLD HOME.

party from Smith's Falls came to Mr. and Mrs. E. M. Yorke. Charleston and spent the day on the Mrs. C. Howard is home from the lake. Mrs. T. Heffernan spent a few hospital a little improved. William

dent here when a mere lad, with his Saturday in Kingston. Rev. Dr. Lawwife and family, spent Thursday son gave a second sermon of a series here. Mr. Wilson, Toronto, is holion "God's Last Invitation." daying at the lake, a guest at the Miss Ethel McMullen, Ottawa, is home of Mr. and Mrs. W. Halliday. home on a vacation. Miss Elsie N. D. McVeih, Athens, has opened Craig is spending the holidays at his summer home here for a few home, after a busy season of teaching weeks: Mrs. J. McKenney and child- at Courtright. Rev. Mr. and Mrs. H. ren, Frankville, came to Charleston J. Crowder spent a couple of days on Saturday and with her brother, visiting friends at Deo's Corners. H. T. Hudson, and Mrs. Kavanagh, and Campbell has purchased a new Oldschildren, spent Sunday at Jones' mobile car. Falls. Rev. W. Usher, Bishop's T. Ball sold a car last week to J. Mills, is tenting at the lake. The Coulter. George Tuttle and children.

Mudget From Verona. Verona, July 25 .- Miss Ina Quinn. Kingston spent a week with her grandparents, Mr. an. Mrs. Tuomes her son, Eugene Percy. Misses Fran- amount some time ago.

ces and Willma Connely, Kingston, are spending the holidays with their A Former Resident Came Back After grandparents, Mr. and Mrs. E. A. Tallen. Miss Bessie Amey spent a cou-

Charleston, July 24 .- T. D. Spence ple of weeks at Bellrock. Misses lost a valuable hound. The animal Louise and Eliza Davy have returned was poisoned. Miss Sarah Hudson home after spending a couple of was called to Jones' Falls, on Tues- weeks with their sister, Mrs. H. Lee. day, by the illness of her sister, Mrs. John Wilks, of the Eureka Flint and Forde Moulton. She returned on Spar Company, is spending a few Thursday. Miss Julia Hudson, days in the village. Mr. Wilks and Summit, N.J., is now with Mrs. R. Wager spent a couple of days on Moulton, who is much better. Misses business near Ottawa. Mr. and Mrs. Bulah and Dora Thurston, Brock- E. M. Yorke were in town last week. ville, spent last week with their Mr. and Mrs. E. I. Martin are spendcousin, Mrs. Harry Webster. A ing the week-end with her parents,

days recently with friends in West- Carroll has returned home after an absence of five weeks at Yarker and A. S. Babcock, Sydenham, a resi- Kingston, Dr. and Mrs. Lawson spent

summer homes at the lake are now Courtland, N.Y., are spending a few weeks here with her parents, Mr. and Mrs. S. Storms, and with friends in

Mrs. Donald D. McDonald, Ottawa, a sister of the late Most Reverend Ryder, Miss Fern Grant, Murvele, Charles Hugh Gauthier, Archbishop

Calgary, is home to spend the sur. The Belleville Council will hand mer with her parents, Mr. and Mrs. over \$10,000 to the G.W.V.A. to spent a couple of days last week with orial home. The people voted the

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