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H. D. WIGHTMAN, District Agent, Kingston, Ont. **HEAVY CALIBRE SHELLS** DUMPED AT QUEBEC

ominum.

Being Brought From France by Canadian Merchant Marine.

Quebec, Oct. 9. - The Quebec Chronicle, says: "It now transpires that the recent cargoes of shells of heavy calfbre which were unloaded at Levis and transferred to the forts south of that city are only a small portion of the munitions which have been unloaded here from vessels of the Canadian Government Merchant Marine all summer.

"Almost every week since the opening of navigation cargoes of these shells have arrived from England and have been unloaded here. The forts at Levis as well as the former Ross rifle factory in this city are filled to bursting with these high

"The storing of the shells here has aroused considerable comment in military circles as the artillery has been removed from this city and as the shells are only guaranteed up to the year 1925, there is much speculation as to the reason for making Quebec and Levis the storehouse of these high power mu-

Veterans of Hamilton join in plan to unite their organizations in order to secure greater efficiency.
Michigan Pikers plan 1923 tour over Ontario roads, with Ottawa as astern terminus,

BY LIEUT JOHN R. IRWIN U. S. AIR SERVICE (RESERVE)

VOLTAGE DROP IN THE LINE

Suppose that a direct current generator capable of supplying 115 volts at the outgoing wires of a power house is furnishing current to a distant building for lighting lamps which require 110 volts. Suppose that the line resistance is 0.1 ohm. and that the lamps require 50 amperes of current. There is then a line drop of 5 volts, and the available voltage at the generator is just right to operate the lamps at their rated voltage. Suppose, however, that other apparatus near the lamps, say, the motor of an elevator, is put in operation and that this requires 100 amperes of current. The line drop is then increased by 10 volts, or 15 volts in all, and the voltage available at the distant end of the line has fallen to 100 volts. This is not sufficient to maintain the lamps at full brightness and they will be dimmed perceptibly every

time the elevator is operated. To correct this difficulty a new line

of lower resistance must replace the old one; that is, the line drop must be decreased so that for the maximum current demand the lamps will not fall below 110

Another example of the line drop is seen in the dimming of the lights of a trolley car when the car is starting. The resistance of the trolley wire is kept low by using a large cross section of copper, and the track resistance is kept as low as possible by careful bonding at the rail joints. However, a few defective joints raises the track resistance and increases the line drop to such an extent that the necessary lam, voltage cannot be maintained when the car

This track bondage can be observed on any railroad and the above answers the question the writer has often heard as to the whyfor that rails are jointed with

(Continued in next issue.)

By RALPH BROWN, RADIO ENGINEER

Radio frequency amplification offers unusual advantages in receiving radio signals of all types, especially radiophone or modulated waves, over all other known methods of receiving. The use of audio amplification is familiar to operators and is known to be limited. A signal which is too weak to operate the detector tube can never be amplified by audio amplification, regardless of the number of stages used. After the signal is strong enough to operate the detector audio amplification is effective up to two stages. Audio amplification beyond this is limited by distortion and inherent audio tube noises.

By radio amplification the original weak incoming signal is raised to a value for effective operation of the detector tube. Regardless of how weak the signal is to start with, a proper radio amplification will bring it up to sufficient strength to make the detector function, after which audio amplification may be appfied. Stations which are normally beyond range can, therefo.e. easily be brought in by using radic amplifi-

RADIO FREQUENCY TRANSFORMERS. former the incoming signal frequency is amplified without the accompanying tube noises and local sounds, since the transformer will not respond to low frequency or audio sounds. Jarring the



tubes, &c., will, therefore, not produce a ringing sound or disturb the receiver in any way, as with audio, nor limit the number of stages of radio amplification By using a correct radio trans- | which the operator desires to use.

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

PROHIBITORY POWERS

fering With "Civil Rights."

Vancouver, B.C., Oct. 9 .- The prohibitory powers of the province to interfere with "civil rights" are very extensive, according to Justice Marin, of the British Columbia appeal the ruling by the United States Atcourt. The matter aross during an torney-General, banning liquor on argument before the court of appeal foreign ships in United States waters in the case of Aaron Morley vs. the and on United States vessels any-Corporation of Oak Bay, near Vic- where, will be to divert a number of toria. Mortey, the appellant, is at- foreign ships from United States tempting to quash the municipality's North Atlantic ports to Montreal and by-law probfbitting horse racing. It Nova Scotta ports, according to prewas a question whether the B.N.A. dictions in many quarters. Chairman Act conferred powers on the province Lasker of the shipping board predicts under the section dealing with "pro- it will have this effect and also will perty and civil rights" to legislate cause vessels to go to Vancouver inabout horse racing. E. C. Mayers, stead of Seattle and Portland. for Morley, contended that horse racing came under the dominion's jurisdiction and that provincial legislation, enabling municip hibit or regulate the sport, was ultra

Justice Martin suterposed that the registration of birds. province under the guise of legislathad taken a coal mine away from one ously injuring two. cial government could abolish the gal,

wearing of hats throughout British ARE VERY EXTENSIVE Columbia. He instanced the abolicourts throughout the province, an In Regard to a Province Inter- enactment passed about twenty years ago and the validity of which Justice Martin questioned

"Dry Ship" Law May Divert Trade to Canada

Wasa-agton, Oct. 9 .- The effect of

Alberta will not compete efficiently at International Live Stock Show at Chicago this year. Poultry producers to meet in Otta-

wa for the purpose of discussing

Loose, wet gravel on road near ing about "property and civil rights" London caused auto to overturn, seriand given seventeen to another. His One million five hundred thousand lordship suggested that the provin- victims of floods in Northern Ben-

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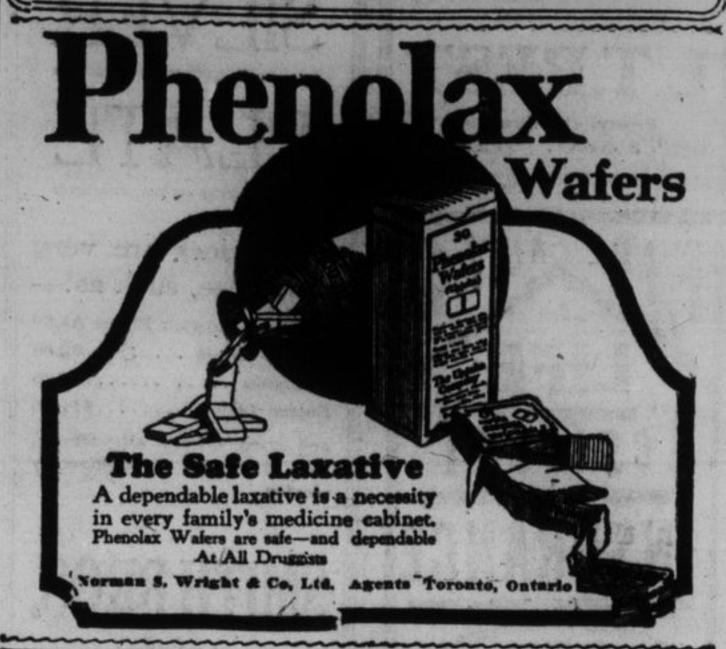
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