

In the World of Sport

R.M.C. CADETS PREPARE FOR THE FINAL CONTEST

Meet St. Michael's Here For Intermediate Interscholastic Championship.

The Royal Military Cadets football team returned to Kingston Sunday morning after their game with St. Michael's, with luckily only a few casualties. Macdonell, the captain, is suffering from a twisted knee which will lay him up for a few days though it is hoped he will pass the M.O. as fit for the tussle next Saturday. Lane also has an injury to his knee, and in all probability will have to stay on the sick list for several days.

A practice was held between Queen's I. and R.M.C. Monday afternoon which should be of great benefit to both teams, each of whom is preparing for their big game of the season on Saturday.

The cadets are not suffering from

over confidence, but intend to put up their biggest fight in several years for the intermediate championship. Remembering the last game of the season in 1921, they know they will have to put up the best game of football, and they will go onto the field as keen as a Toledo blade. St. Michael's have an excellent team, all members having played together for several years. The game in Toronto was a hard one, as the low score 3-1 indicates, both teams gaining points through rouges and kicks to the dead line.

The St. Michael's players are heavy, good tacklers and fast runners. They play a nice even game of fast ball and have an excellent ball carrier in Lebel. They outkicked the Cadets last Friday and their line gave good protection.

Although not making any assertions that they will be able to win, the cadets are determined to play the game of their lives and it is thought that those fans who are unable to attend the senior game will find plenty of excitement at the interscholastic intermediate finals in the

Richardson stadium next Saturday afternoon.

Arrangements are being made to have the score of the Queen's-Varsity match announced at the stadium during the R.M.C. game.

HUGGINS MAY RETIRE BEFORE SEASON OPENS

Yanks' Manager Would Have Retired Had Team Won the Series.

Despite the fact that Miller Huggins has been re-appointed as manager of the New York Yankees, the impression prevails that he will not be at the helm when the 1923 season opens.

Unquestionably the job is Huggins' if he desires to accept it, but those close to the mite manager say it wouldn't surprise them if he stepped down and out before the next campaign.

Had Huggins won the world series he would have probably retired. Failure to win the series is one of the things that caused Huggins to again accept the management. The leader of the Yankees has plenty of money, but is in poor health, and managing a club like the Yankees is far from being a health tonic.

To his close friends Huggins had told that he would retire at the close of the 1922 season if his team won the series. The poor showing of the Yankees was a keen disappointment to Huggins, who really expected to win. That upset has changed his mind about retiring, temporarily at least.

Unless sweeping changes are made in the personnel of the Yankees that club is going to be harder than ever to manage next season. Huggins realizes this and it may result in a change of mind before the season opens as to again leading the club.

The trouble with the Yankees has been due to Babe Ruth being bigger than the manager of the club. Ruth practically did as he pleased, which made it next to impossible for Huggins to enforce discipline among the other members of the club.

Managing the New York Yankees under present conditions is worth a lot of money and it is doubtful if Huggins is getting what it is worth, or has the health to stand it.

Kingston Cop's Retort.

Ottawa Journal.

When Jack Inlay arrived on the Ottawa train at the inner station he asked a cop to direct him to the Richardson stadium.

"You go up this street," he pointed. "Then you keep on going, and it bends around almost to the stadium."

"Bends around?" questioned Jack. "Why in Ottawa, where I come from, everything is laid out straight."

"Well," retorted the policeman, who, like the most of the Kingston custodians of the peace who come in

close contact with the bright students, is ever ready with a bit of snappy repartee. "If Kingston were as dead as Ottawa as a football town, perhaps it might be laid out straight, too."

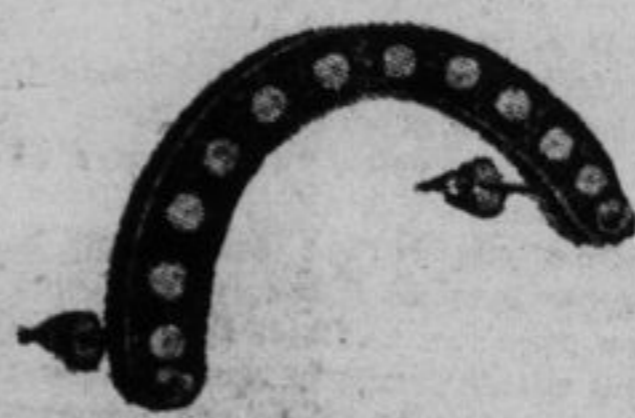
Body of Walter Kendall, aged nineteen, Uxbridge, found in bush with bullet in head.

APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

PLATE BATTERY POTENTIOMETER.

Certain vacuum tubes now on the market require a critical adjustment of the plate voltage. The illustration depicts a panel mounting device for this purpose which will be found very practical. It is designed for connection across the filament battery terminals and does not exhaust the B-battery as in the case of most potentiometers that are connected across the B-battery terminals. Contact between the metal arm and the resistance unit is made by eleven nickeled metal inserts molded in the unit, insuring perfect contact and quiet operation.



RADIO DEVELOPMENT

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

SPEED AND CONTROL OF MOTORS.

For reasons given under the heading "Limiting Speed" in a previous article, a shunt motor generally runs a little more slowly when loaded (driving machinery) than when running free. The change of speed is called "speed regulation." For most motors this regulation is good, the change in speed between no load and full load being only 5 per cent. or less. Shunt motors are therefore called "constant speed" motors.

This supposes that the voltage applied to the motor is constant. If it is too low, the speed falls off, as well as the power which the motor can develop. If it is too high, the motor will overspeed somewhat and is likely to overheat and to spark injuriously at the commutator. The speed can be changed, if necessary, by several methods. Only two will be described.

A resistance in series with the armature circuit only (not the joint line to armature and field) will reduce the speed. The conductor must be large enough to carry the armature current without overheating. The ordinary starting rheostat will not serve, as it is not made large enough for continuous duty. It will quickly overheat. Sometimes

special rheostats are made for starting, which are large enough to be left in the circuit continuously. They are then marked usually "Regulating rheostat for continuous duty."

The objection to this scheme is that it wastes power and that, if the load changes, the speed changes too. It has the advantage of being simple only.

A resistance in series with the shunt field winding increases the speed. This seems contradictory. The explanation is that when the field current is reduced, the magnetism is weakened. The conductors have to move faster to generate about the same counter emf. as before, and since this counter emf. is always nearly as great as the applied voltage the speed has to increase.

The objection to this method is that the motor may overspeed and burst the armature by centrifugal force if too much resistance is used in the field circuit. There is also danger of damaging the commutator by sparking. It is not wise to raise the speed more than 10 or 15 per cent. above that marked on the name plate unless the operator is very sure no harm will follow.

(Continued in next issue.)

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

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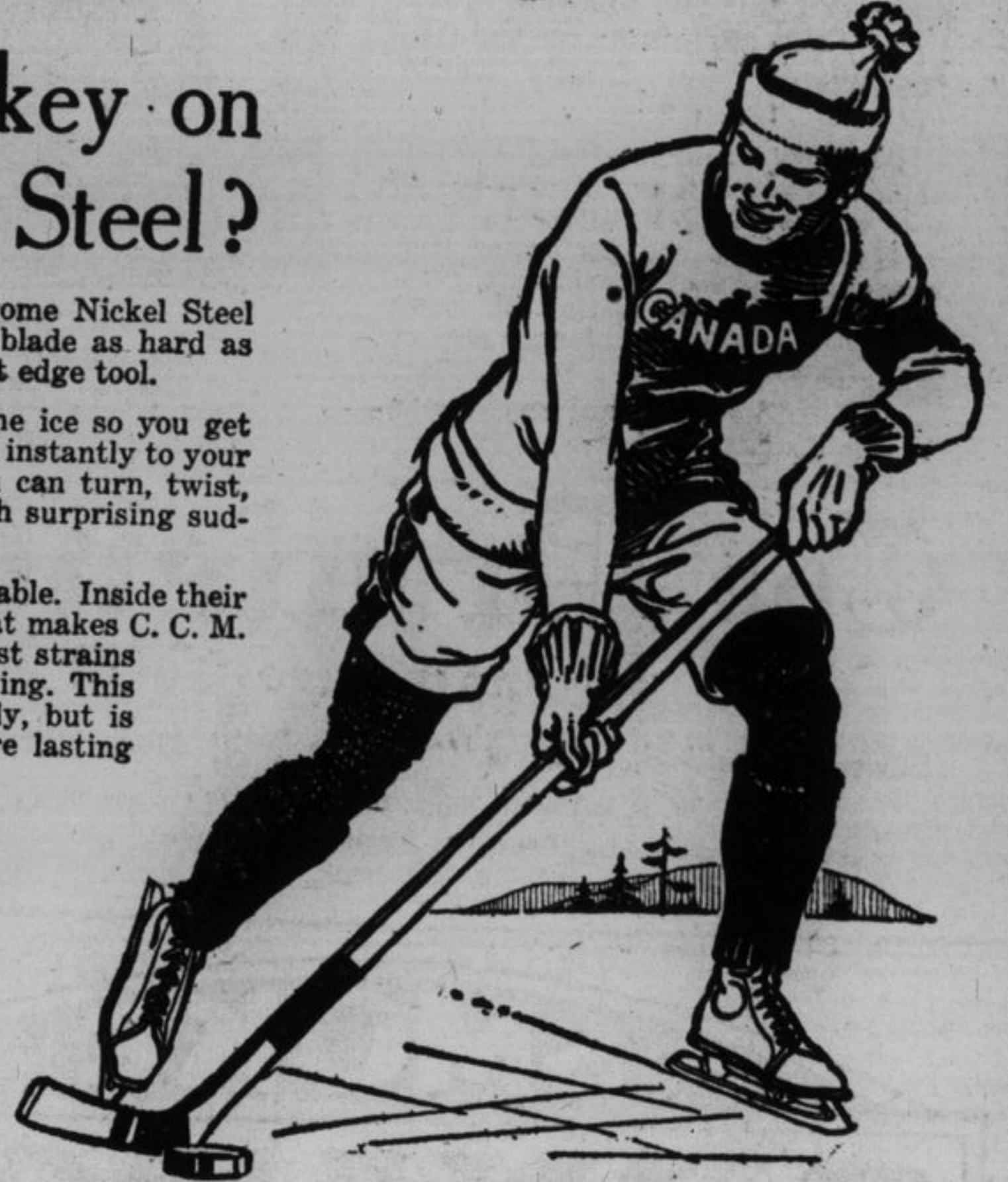
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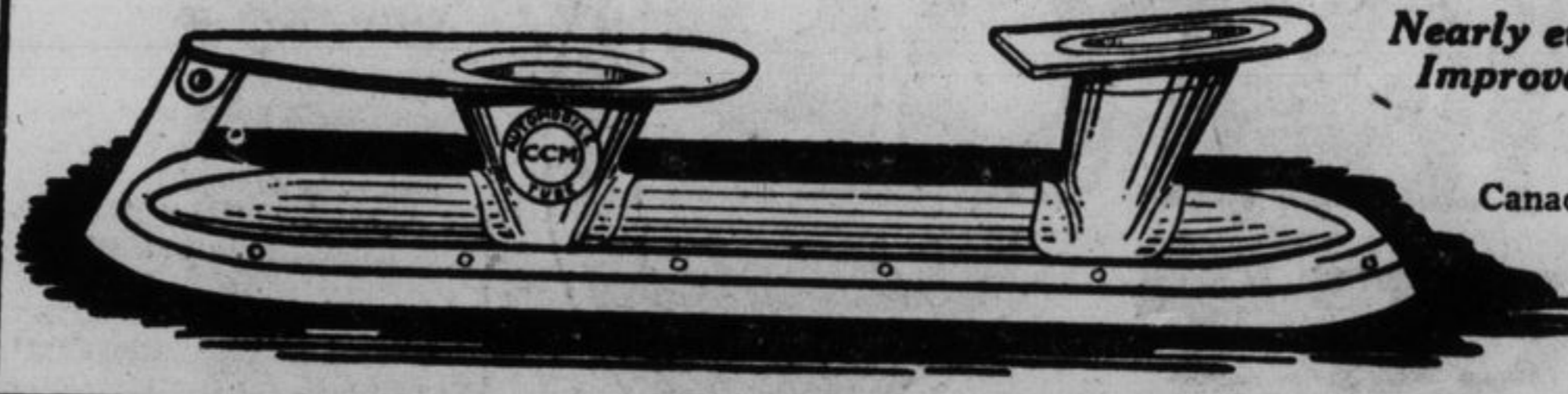
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