

The Evening Times and Star

ST. JOHN, N. B., SEPTEMBER 22, 1922

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PROTECT THE PUBLIC.

The proposed contract for the Musquash power to be executed by the city of St. John and the New Brunswick Electric Power Commission contains a clause which would prohibit the city from selling the hydro power to any corporation which would re-sell at a profit. That clause must remain. The Power Commission should not permit it to be eliminated, and the government behind the Power Commission should see to it that it is not eliminated.

That clause is one of the chief safeguards for the citizens of St. John so far as the hydro contract is concerned. Without it the city would find itself in a position where a deal could be made to hand the power over to the New Brunswick Power Company for distribution at a rate which would deprive the public of the full benefit of the Musquash development. Any such arrangement would mean that the city could not get power at cost. Certainly, the citizens will keenly resent any weakness which would result in the elimination of that clause from the contract.

The Musquash water power was developed with the people's money, and for the people. It was not developed for the New Brunswick Power Company or any other monopoly, and no private corporation should be allowed to use the credit of this province to make money out of the water powers. The government should insist upon that clause remaining in the contract. Those who are saying that the government has no right to "dictate" to the municipalities are resorting to special pleading. The government has just as much right to interest itself in the affairs of the municipalities in this way as it has in connection with the roads, the forests or the public health. In large measure the fate of the whole hydro policy in this province depends upon the arrangement that is to be made with St. John regarding the current developed at Musquash. That is obvious. Therefore every protection must be given the consumers in any contract that is signed between the city and the New Brunswick Power Commission.

The commission should remember that the present Mayor is being recalled, and that in all human probability a new Mayor will be at city hall so soon as it is possible to put him there. Any effort therefore on the part of anybody to have the contract changed so that it would be possible to re-sell the power to a private corporation, which in turn could re-sell it at a profit, should be opposed by the Power Commission and the government. That protection is due the people of the province, every taxpayer of whom is a shareholder in the Musquash development.

THE NEAR EAST.

Some of the anxiety over the Near East situation will be revived by the news in today's despatches. Matters had appeared to be quieting down with the reaching of an accord by Britain and France as to the Allied policy in the premises and the decision to hold a peace conference. Several items in the cables of the day, however, are not so reassuring. Outstanding is the reported seizure of Kemal's troops to the edge of the neutral zone, if they have not even invaded that section. Some experts say that the Turkish forces have been so placed by this move, that their guns can command the British ships hastering from Malta and prevent free ingress to the Dardanelles. Britain has determined, and has definitely stated, that she will not withdraw from Chanak and that she will protect the freedom of the Straits. An unwelcome move by the Turks, it will be seen, might easily induce the clash that is hoped will be avoided.

Greece, beaten to earth, does not give up her territorial claims and is declaring that the Turks must not cross into Thrace. She is strengthening her defence there as best she can, though sadly deficient in war equipment.

The conference in Paris was to be resumed today and there lies the best hope of avoidance of a clash of arms. France has announced her intention to work to prevent war between Great Britain and Turkey.

AN AID TO NAVIGATION.

A marked improvement in the application of the principles of the radio direction-finding system for the guidance of vessels has been worked out by Signor Guglielmo Marconi, with the assistance of Mr. C. F. Franklin, a British engineer. The direction-finding station at this port has proved its great usefulness during the winters it has been in operation, as have similar stations in other places, but it is believed that

Signor Marconi's method will prove even more useful, and in a wider field. Experiments with the new apparatus are being made at Inchkeith Island, in the Firth of Forth, and if they prove as successful as the inventor anticipates it is expected that eventually mariners in every part of the world will benefit by the widespread adoption of this new aid to navigation.

The device is expected to serve the mariner in much the same way as does the lighthouse or the fog signal, with the added advantage that it will be equally efficient by day or by night, and in clear weather or in fogs or storms. In addition, it conveys a definite message instead of merely a general warning. The message conveyed by lighthouse and the fog signal frequently is more negative than positive; it is a warning to keep away from danger rather than positive information concerning the way of safety. Signor Marconi's invention will, it is believed, serve the same purpose, but will also enable the mariner to learn exactly where he is and on what course to proceed.

The device, which is described as a radio wave projector, is automatic in operation. A short wave-length is used and its first function is to send out a code letter, which serves to identify the sending station. A revolving apparatus is used, and as it revolves, a different code letter is given for each point of the compass, thus enabling the ship's operator to determine exactly the direction from which the message is received. By picking up the signal from another similar station, the angle thus secured would show the exact position of the vessel, and as the vessel proceeded on its course the signals would continue to act as a guide.

Gradually, the ingenuity of man is overcoming the perils of the deep, but sufficient danger still exists to ensure a warm welcome for every new aid to navigation, and if Signor Marconi's invention proves successful, it will add to the claim which he already has upon the gratitude of mankind.

LOCAL NEWS

Numerous shooting parties are at Grand Lake and vicinity for the opening of the duck season, among them being W. I. Fenton, Wakefield Fenton and T. H. Estabrooke, who have John Sabatini as guide; R. A. McAvity and party and several parties from Fredericton and Gagetown.

Dallas Carleton of Sussex was fined \$20 and costs yesterday at Hampton by Magistrate W. H. Parlee on a conviction for speeding and inflicting an injury on the occupants of a car owned by E. J. Wall of this city in a collision near Apohaqui on September 4. Evidence was given by Royden Foley, Fred Walely, D. Carleton and Mr. Parlee. Constable Robert Crawford conducted the prosecution and J. H. McFadden, the defense. Mr. McFadden gave notice of appeal.

LeRoy F. Harding, of St. John, who served overseas with the Canadian Expeditionary Force, while in England had a duplicate of his identification disk made for a bracelet for his wife. It was lost in London and Mr. Harding had never expected to see it again when a young lady in Burnt Village, near Chatham, showed him the identical disk one day and said that her brother had found it in London and gave it to her when she was on duty in a military hospital in France.

Rev. J. V. Young, priest in charge of the Mission Church of St. John the Baptist, announced yesterday that a noted English Mission priest would be in St. John in January and conduct a ten days' mission at the church in Paradise row. The missioner will be Rev. Father Monaghan Cyril Bickerton, M.A., a member of the Community of the Resurrection which has a monastery at Mirfield, England, and a priory in London.

The steamer Calvin Austin on the New York-Boston route returned to Cape Cod canal recently and damaged her rudder. She was refloated and towed to Boston but will be incapacitated for service for a few days. In the meantime, her place on that route will be taken by the Governor Dingley of the St. John-Boston route, the Dingley to be replaced on this route by the steamer Camden, which will arrive here tomorrow morning.

YOUNG MOTHER IN NOVA SCOTIA DIES FROM BURNS

Antigonish, N. S., Sept. 22.—Mrs. Annie Melanson, 21, wife of Frank Melanson, of Pomquet, near here, was severely burned on Monday by the ignition of kerosene which she had accidentally spilled on her clothing while cleaning lamps, has died from her injuries. She is survived by her husband and an infant daughter.

PROMISES SURPRISE IN THE DELORME CASE

Montreal, Sept. 22.—In the Adelard Delorme case, Leo Houle, acting for the priest, has raised the contention that the Montreal courts have no jurisdiction to hear the case. The point will be settled September 28, on which Mr. Houle today asserted that there would be some surprises in store.

SPEAKER BARS MOVIES OF COMMONS IN ACTION

Ottawa, Sept. 22.—On the ground that such a proceeding is not in accordance with the dignity of parliament, Speaker Lemieux had declined to allow the filming of the Canadian house of commons in session.

FIFTEEN MINUTES OF RADIO EACH DAY

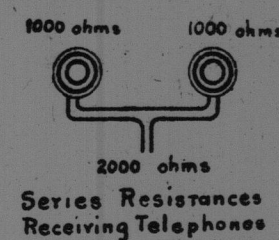
By Edward N. Davis

Formerly Technical Electrical Expert For U. S. Government

Lesson No. 111.

RESISTANCES IN RADIO CIRCUITS.

When a piece of wire is connected across a storage battery a current is drawn from the battery the intensity of which is determined by the amount of opposition offered to current flow by the wire itself. The opposition to current flow or "resistance" of the wire is dependent upon the length, cross-section area and the material of which it is constructed. Materials such as copper and silver, which offer little resistance to current flow, are said to be good conductors of electrical currents, while materials which offer extremely high resistance to current flow, such as porcelain or glass, are called insulators. By combining different materials, some of which are good conductors and others poor conductors (good insulators), it is possible to convey electrical energy from place to place, as in a power transmission line.



Parallel Resistances Battery Charging

The unit of resistance is the "ohm" and an idea of the unit may be gained from the fact that an ordinary filament rheostat for vacuum tube operation usually has a resistance of about five to ten ohms, while the resistance of a radio head set is connected in series which means that the resistance of the two telephones is the sum of the individual resistances. A single receiver of such a set would therefore have a resistance of 1,000 ohms. The resistance of a radio circuit materially affects the efficiency of the apparatus, the designer usually making every effort to keep the resistance as low as possible. Radio circuits will not oscillate if the resistance is too high, a fact which explains the failure of many poorly constructed transmitters. Therefore all connections in a receiving set should be soldered so as to reduce energy losses, due to resistance, to a minimum.

A decrease in the resistance of a circuit causes more current to flow through the circuit, thus when the filament rheostat knob is rotated, increasing the brilliancy of the filament, resistance is being cut out of the circuit. If the two telephone receivers mentioned above were connected in parallel instead of in series, the total resistance of the combination would be half that of a single receiver or one-quarter of the resistance of the two receivers in series.

Similarly, in charging a storage battery from a 110 volt D. C. line if a single 100 watt electric bulb is connected in series with the battery and line about one ampere of current will flow into the battery to charge it. This rate is too slow for most batteries so the resistance of the circuit is reduced by adding another lamp in parallel to the first, thereby increasing the current flow to two amperes. If we wished to reduce the charging current the two lamps would be placed in series, in which case the current flow would be one-half an ampere.

Radio frequency currents flow on the surface of conductors and therefore the conductors which offer the least resistance to the flow of such currents are those having the greatest surface. In many receiving sets, stranded insulated wire, known as "litzendraht," is employed because it has a lower frequency resistance than solid wire.

There is another kind of resistance, known as radiation resistance, which applies only to transmitting stations. It is a quantity dependent upon the ohmic resistance of the aerial system and other quantities affected by local physical surroundings.

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LIGHTER VEIN.

Ready for Football. Preparations for the football season are in full swing. All over the country referees are making their final arrangements for the future of their wives and families.—London Punch.

The Other Way Round. "I want to get a divorce from my husband." "On what ground?" asked the lawyer. "Insanity." "Was he crazy at the time of your marriage?" "Oh, dear no; I was."—Boston Transcript.

LIGHTER VEIN.

The examiners of a certain school always try to make the papers as up-to-date and interesting as possible. During a recent examination one of the questions read thus: "If one horse can run a mile in a minute and a half and another is able to do the same distance in two minutes, how far ahead would the first horse be if the two ran a race of two miles at these respective speeds?"

One pupil returned his paper with the query unanswered, except that he had written on the sheet—"I refuse to have anything to do with horse racing!"

There is a brewer in Milwaukee who has the precious gift of imagination. When brewing ceased in Milwaukee he sat down and thought, and presently evolved a formula for "near-beer," an anaemic ghost of the real juice, warranted non-intoxicant. Then he had a special label printed for his bottles. It reads: "It is forbidden by law to put a raisin into this beverage, since it has the effect of making it intoxicating." The brewer made a fortune.

SPENDTHRIFT YOUTH.

Kitchener Record: There are few young men nowadays who show habits of thrift and economy. There is a disposition to spend rather than save, and through love of personal adornment, expensive habits, and a lack of that desire to lay aside funds for a rainy day, our young men are not acquiring a reputation for forthrightness, which might prove of incalculable value to them in the future. We would not desire them to be mean or selfish, but there is a happy medium between a spendthrift and a miser.

THEY LOVE A CRISIS.

Regina Leader: If practice makes perfect, the prime ministers of Europe should by this time be able to go over Niagara in a barrel, able to walk blind-foot along a cliff, able to rock any boat without quite upsetting it. Almost it seems that they take a delight in seeing how bad a crisis they can work up to show how wonderfully they can squeeze out of it.

WOEFUL WASTE.

London Free Press: British Columbia has spent more than \$400,000,000 on the Pacific Great Eastern Railway, and now an expert engineer advises that the whole line be abandoned. We do foolish things in Ontario, but we cannot equal this record.

WELSH COAL SHIPMENTS.

Barclay's Bank Review

The demand for British coal from the United States has exceeded anticipations. It was stated in last month's Review that the orders placed for British coals exceeded one million tons, and that this quantity, nearly one-half was for South Wales coals. In the last few days of July and the first week in August American buying was practically suspended, but it afterwards became very active, and it is now estimated that the contracts placed exceed two million tons, of which the greater part is for shipment from South Wales ports.

The pressure at the South Wales docks during the last three weeks has been phenomenal. Both outputs and tonnage forwarded to the remainder of the world in the South Wales coal field has been restored to practically the pre-war level of about 1,100,000 tons per week while no great change in the supply of shipping that the docks have been unable to accommodate it. In these circumstances the Great Western Railway Company, which is now in complete control of the South Wales docks, has been compelled to adopt stringent regulations to prevent chaos and inefficiency in the forwarding of coals beyond the junctions where tips have been allocated to them, and coalies have been expected to them, and the regulations have been justified by the results. The output of the coal-tipping appliances has exceeded those for any other period since the war, and temporarily the United States has become the chief destination for the export of South Wales coals. The weekly shipments to that country have already reached from 110,000 to 150,000 tons, and at this figures America is absorbing approximately thirty per cent. of the foreign trade of the Bristol Channel ports.

CURSE OF THE U. S.

Boston Transcript: The National Police Conference, held in New York the other day, listened to some very suggestive words from Chief Magistrate William McAdoo of that city. This gentleman, whose experience at the head of the magistracy of a great city has qualified him to speak on subjects connected with crime and with police control, who before his magistracy was for a time police commissioner of New York, ridiculed the common idea that the honest citizen needs a pistol to enable him to protect himself against hold-ups. "I have been held up myself," said the magistrate, "and if I had been carrying twenty pistols they would have been of no use to me." He called the pistol the "curse of America," and so it is. Its defensive use bears but a slight proportion to its offensive use. Its record is ninety per cent. destructive and criminal.

DUTCH FOR CANADA.

Montreal Star: If Canada were to have her choice of nationals outside the British Empire as immigrants, she would probably make no better selection than the Dutch farmer from Holland. He is sturdy, thrifty, solid, slow to anger, level-headed, dogged, not easily turned from his purpose, and rich in that moral courage which makes for citizenship against obstacles.

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BRITISH FOOTBALL

(Canadian Press Despatch.) London, Sept. 21.—In a Rugby League game played today Hull Kingston defeated Featherstone by 16 to 10. Another Rugby fixture resulted in Neath defeating Llanelly by 12 to 8.

MORE WESTERN GRAIN TO THE PACIFIC COAST

Calgary, Sept. 22.—More grain is being sent from Alberta farms to the Pacific coast this year than last. Most of it is of the finest quality. Only No. 1 hard and No. 1 northern are accepted at the Pacific port.

PROHIBITIVE TARIFF BARRIERS

Halifax Chronicle: The power given to the president to vary rates, in the "flexible" provisions of the United States tariff, may involve a dangerous principle, but it may leave the door open for reciprocity negotiations with Canada. The folly of maintaining almost prohibitive tariff barriers against their second-best customer will appeal in time to even the high-protectionist senators.

MAJOR GENERAL FISET IS GIVING UP POST

Ottawa, Sept. 22.—Major General Sir Eugene Fiset, for twenty-three years deputy minister of militia, is retiring owing to ill-health.

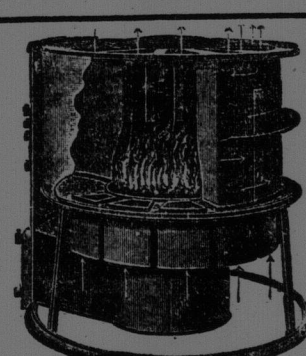
HAD FAIR NIGHT.

Montreal, Sept. 22.—Hon. W. C. Kennedy, minister of railways, who is in the Royal Victoria Hospital here, spent a fair night.

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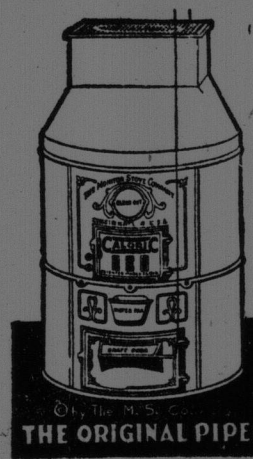
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