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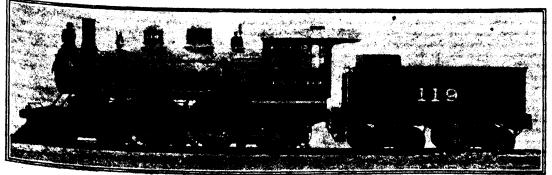
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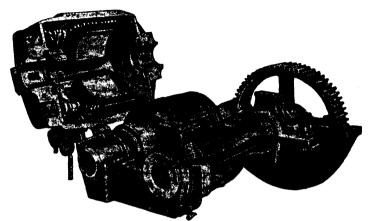
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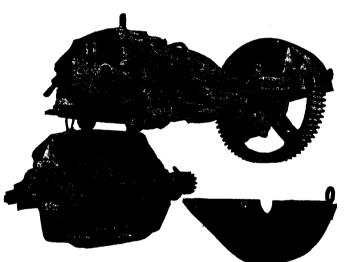
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## Grand Trunk Pacific Railway.

The following memorandum has been pre-pared by Jas. White, Geographer of the De-mer of the Interior: "During the sum-mer of the Interior: "During the summer of 1903 preliminary surveys were made of the u. Winning, of the line between North Bay and Winnipeg, and location surveys were made of a large Portion of the line between Winnipeg and traordinarily wet weather not only interfered with the survey with the work and movements of the survey parties, but made the carriage of supplies extremely difficult and expensive. Enough work has been done, however, to show that it is possible to get a line from Winnipeg to the point at all the get a line from Winnipeg to the possible to get a line from Winnipeg to the from the which the North Bay branch diverges ceed 0.4% and curves of not more than 4. G. T. R.) is confident that on the final location he can reduce most of the 0.4% to 0.3%. and he can reduce most of the 0.4% to 0.3%; and he can reduce most of the 0.4% to 0.3%, compensated and the line. All curves are more favored, and the line is in every way a more favorable one than the C.P.R. through the corrections. the corresponding sections. In general terms, it follows: Lace the corresponding sections. it follows the valley of the Englishriver to Lac Seul: then Seul; thence to the Ogoki branch of the Albany river; thence in almost an air line to Opazatika lake. probably follow a little to the south of and Parallel to a base line run by Messrs. Niven Ontario Government. From the Interproving Boundary that it will probably run southcial Boundary line it will probably run southeastward to the headwaters of the St. Maurice, thence the headwaters of the last namrice, thence down the valley of the last nam-The first 100 miles from Winnipeg can be built for \$25,000 a mile; that between the Tooth and 350th miles, will cost \$35,000 a miles, and 530th miles, will cost \$35,000 a mile, and 350th miles, will cost \$35,000 a miles, and 530th miles, and 530th miles, between the 350th and 530th miles, \$30,000 a mile. From the 530th mile eastward to Quebec cannot be estimated with any made, but Mr. Stephens considers \$30,000 a timates were liberal and that the road should imates were liberal and that the road should easily be completed and that the road should easily be constructed at these figures. 30,000 estimate for the line through the clay belt it is largely the to the heavy cost of getting in supplies. For the heavy cost of getting in supplied bec. Monetone reason the cost of the Quecosts being equal bec. Moncton section—other costs being equal

should be correspondingly reduced.
It should be correspondingly reduced. It should be mentioned that in Ontario and ebec the increase well to the Quebec the line has been located well to the north, that as much as possible of the timbertime it has been above the track. At the same time it has been kept above the edge of the streams plateau or 'fall line' where the the lower plateau.

the lower plateau.

Prairie Section—Cost, gradients and curvature.

Winnipeg, 850 miles by Preliminary surveys, but will be reduced by as or 30 miles. Maximum gradient in westportion, 0.4%, and maximum curve, 3°; in

eastern portion maximum grade against eastbound traffic, 0.3% and 0.4% against west-The maximum gradient in the eastern portion has been reduced on the assumption that the branch lines will feed in freight to the main line, and it is highly desirable that the locomotives should be able to haul the maximum loading. There is nothing to be gained by reducing the gradient below 0.3%, as it does not require the expenditure of more power to haul a train up such a gradient than it would to start it on the level. The maximum curve, as stated above, is 3°, but there are very few as sharp as this, and the alignment is very favorable.

Winnipeg-Missinaibi Section-The G.T. Pacific has numbered its sections from North



W. WAINWRIGHT.

General Assistant and Comptroller, G. T. R.

Bay westward, and, to avoid confusion, this arbitrary numbering has been used below, though the arrangement is not a convenient

"Sec. 9, Winnipeg to the Winnipeg River crossing, 110 miles. The first 70 miles is practically an air line, and from the 70th mile to the eastern end of the division is an excellent location. Maximum gradient 0.35%, except 3/2 mile at 0.40; maximum curve 4° and a very few, nearly all 1° and 2°.
"Sec. 8, Winnipeg River to Lac Seul, 90

miles. Maximum gradient 0.4%, most of it

against west-bound traffic, maximum curve 4°.
"Sec. 7, Lac Seul to White Earth Lake, 130 miles. In first 100 miles maximum gradi-

ent against east-bound traffic, 0.35%; of which there are only three short stretches between the 39th and 100th mile-and 0.38% against west-bound traffic. From the rooth mile to the end of this section—at its 130th mile—the preliminary location shows a maximum of 0.4%, which can be reduced on the final location.

"Sec. 6, From White Earth Lake to Otter River—80 miles. The western portion, o to 35th mile, has not been returned, but as it follows the Ogoki River through a generally sandy country, there will not be any difficulty

in getting a maximum gradient of 0.4%.
"Sec. 5, From Otter River to 9 miles west of Kenogami or English River—89 miles. Preliminary surveys show that a 0.4% line can

Sec. 4, From 9 miles west of Kenogami to Missinaibi River—132 miles. This is an air line, which shows that nearly all the maximum gradient will be against west-bound traf-This extraordinary tangent shows an

extremely level country.
"Sec. 3, From Missinaibi River to Kakozisk or Ground Hog River—102 miles. Easy gradients with a maximum of 0.4% and an excellent line. From the eastern end of the last section the surveyed line turns south-eastward via the Mattagami, Wanapitai and Sturgeon Rivers to North Bay. No attempt has been made to keep the maximum gradient on this portion not to exceed 0.4%, as it is only a branch. A very good line has been secured.

The Nelson and Fort Sheppard Ry. Co. has appealed against the valuation of \$1 an acre placed on its land grant of 500,000 acres, on the ground that the land was practically worthless for agricultural or ranching purposes, and that the standing timber, where it has not been burned over, could not be got out at a profit. The provincial tax for which purpose the valuation was made is 5% on the value.

The amount of fees paid by the Newfound land Government for legal assistance in con nection with the railway arbitration of 1902 was \$19,060. The return recently presented to the Legislature by the Finance Minister showed that the following amounts were paid: Hon. E. P. Morris, \$6,000; M. W. Furlong, \$5,000: J. A. Cleft, \$2,015; C. H. Emerson, \$2,015; C. O'N. Conroy, \$2,015; Horwood & Conroy, \$2,015.

At the annual meeting of the Railway Transportation Association, recently held at Cincinnati, Ohio, applications for membership were received from the Canadian Northern Ry. and the Toronto, Hamilton and Buffalo Ry. A report was received from the committee appointed to consider the question of the amalgamation of the International Association of Car Accountants and Car Service Officers and the Railway Transportation Association, but action thereon was deferred.

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MASTER, Capt. Jas. Wilson, Collingwood, Ont.; FIRST OFFICER, Capt. Milligan, St. Catharines, Ont.; SECRETARY, W. Ireland, Parry Sound, Ont.; TREASURER, Capt. M. McKay, Owen Sound, Ont.

#### Canadian Excursion Agreement Meeting.

CHAIRMAN, J. H. Walsh, Sherbrooke, Que. SECRETARY care of Passenger Department, C.P.R., Montreal.

#### Canadian Freight Association.

PRESIDENT, C. Howe, Buffalo, N.Y.; 1st Vice-Pres., W. R. MacInnes, Montreal; 2nd Vice-Pres., G. Collins. Trenton, Ont.; Sec.-Treas., J. Earls, Toronto, Oppicial Organ.—The Railway & Shipping World,

#### Canadian Pacific Railway Club.

PRESIDENT, W. J. Brown; SECRETARY, pro tem, W. J. Miller; TREASURER, J. D. Scott.
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rooms. Toronto lunction.

### Canadian Railway Club.

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Mertings at Windsor Hotel, Montreal, 1st Tuesday

of each month, 8 p.m., except June, July and Aug.

### Canadian Roadmasters' Association.

PRESIDENT, A. McAuley, Toronto Jct., Ont.; Vice-President, J. R. Brennan, Ottawa, Ont.; Secretary-Treasurer, J. Drinkwater, Winchester, Ont. Opficial Organ.—The Railway & Shipping World.

#### Canadian Society of Civil Engineers.

PRESIDENT, Col. W. P. Anderson, Ottawa: Vice-Presidents, C. E. W. Dodwell, C. H. Keefer, E. Marceau; Treasurer, H. Irwin; Secretary, C. H. McLeod; Librarian, E. G. M. Cape.
Meetings at 877 Dorchester St., Montreal, every alternate Thursday, 8 p.m.

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### Engineers' Club of Toronto.

PRESIDENT, K. Gamble; 1st VICE-PRESIDENT, R. F. Tate; 2nd VICE-PRESIDENT, Jas. McDougall; SECRETARY, W. Chipman.

Rooms, 96 King St. West, Toronto.

#### Great Lakes and Sc. Lawrence River Rate Committee.

CHAIRMAN, C. E. Markham, Buffalo, N.Y. SECRETARY, G. C. Wells, Montreal.

#### International Water Lines Passenger Association.

PRESIDENT, A. A. Schantz, Detroit, Mich.; VICE-PRESIDENT, J. Berolsheim, Chicago, Ill.; SECRETARY, M. R. Nelson, Buffalo, N.Y.

NEXT MEETING, Buffalo, N.Y., Feb. 8th, 1905.

#### National Association Marine Engineers of Canada.

Canada.

PRESIDENT, T. J. S. Milne, Kingston, Ont.; VICE-PRESIDENT, N. Ducap, Montreal, Que.; Sec.-Treas., N. J. Morrison, St. John, N.B.; Secretaries of Local Councils—Toronto, R. Beals; St. John, N.B., G., T. G. Blewett; Collingwood, Ont., A. McDougali; Kingston, Ont., J. Gillie: Montreal, N. Ducap; Victoria, B. C., P. Gordon; Vancouver, B. C., T. M. Heard; Levis, Que., E. Belanger; Sorel, Que.; A. L. de Martigny; Owen Sound, J. M. Wilson; Windsor, Ont., N. Maitland.

NEXT ANNUAL MEETING of the Grand-Council. in Collingwood, Ont., fourth Tuesday in Jan., 1905.

#### Niagara Frontier Summer Rate Committee.

CHAIRMAN, H. H. Gildersleeve, Kingston, Ont. SECRETARY, G. C. Wells, Montreal.

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W. Abbott, Montreal. The Accident and Guarantee Co. of Canada. American Locomotive Co., New York. Babcock & Wilcox (Ltd.), Montreal. Baldwin Locomotive Works, Philadelphia, Pa. Bell Telephone Co. of Canada Brastreet Company The Acton Burrows Co., Toronto Canadian Locomotive Co., Kingston, Ont. Cover Canadian Northern Railway Canadian Northern Railway Canadian Northern Railway Canadian Northern Railway Canadian Shipbuilding Co. Canadian Shipbuilding Co. Canadian Steel and Wire Co., Hamilton Cover Canadian Westinghouse Co., Montreal Cominion Bridge Co., Montreal Cominion Wire Manulacturing Co., Montreal Collena Signal Oil Co., Franklin, Pa J. J., Gartshore, Toronto Calena Signal Oil Co., Franklin, Pa J. J., Gartshore, Toronto Covernment of Manitoba The B. Greening Wire Co., Hamilton, Ont. Covernment of Manitoba The B. Greening Wire Co., Hamilton, Ont. Covernment of Manitoba The B. Greening Wire Co., Hamilton, Ont. Covernment of Manitoba The B. Greening Wire Co., Hamilton, Ont. Covernment of Manitoba The B. Greening Wire Co., Hamilton, Ont. Covernment of Manitoba The B. Greening Wire Co., Montreal Covernment of Manitoba The B. Greening Wire Co., Montreal Holt, Renfrew Co., Toronto Covernment of Manitoba The B. Greening Wire Co., Montreal The Montreal Covernment of Manitoba The B. Greening Wire Co., Montreal Covernment of Manitoba The B. Greeni

The Dominion Government paid out during the year ended June 30, 1903, on account of railway subsidies \$ 2.5 railway subsidies, \$1,463,222.

The St. Thomas Brass Co. recently passed by law increase. a by-law increasing its capital stock cor-\$25,000 to \$100,000 \$25,000 to \$100,000, and this has been confirmed by the granting of supplementary Activers patent under the Optomic States ters patent under the Ontario Companies of

The Press Association of the Province in Quebec will visit the St. Louis Exposition in May, leaving Montreal May 13 and returning May 22. They will travel via G.T.R. Illinois Central Rd., and from Toronto will be on the special train carreirs. on the special train carrying the Canadian Press Association, particulars of which were given in our last issue

The Canadian Inspection Co. (Ltd.), recent incorporated ly incorporated under the Dominion nilway panies' Act. to incorporate panies Act, to inspect and report on railway works, bridges. works, bridges, docks, etc., and materials entering into the construction of the same, been registered under the construction of the same, been registered under the Ontario act A. A. specting extra provider pecting extra provincial companies. Wighton, Toronto, is the Company's attorney in Ontario.

## RAILWAY FINANCE, MEETINGS, ETC.

Algoma Central and Hudson Bay Ry. Algonia Central and Hudson Bay ny.
The Ontario Legislature has passed an act
authorizing the guarantee of bonds to the
extent of a the guarantee of bonds to the extent of \$2,000,000 in connection with the reorganization of the Consolidated Lake Su-Perior Co., under the name of the Canadian Improvement Co. The Premier in introducing the man the man to be the measure stated that the first thing to be done if the reorganization were completed, was the was the completion of the A.C. and H.B. Ry. This would take \$1,640,700. Of this road 91 miles were also before the completion of the A.C. and H.B. Ry. miles would take \$1,640,700. Of this road you miles were completed, 110 miles graded, and to complete it to the C.P.R. would entail the construction of what was as yet construction for 25 miles of what was as yet that the ground. But the engineer certified that the route of this 25 miles ran across reasonably laws of the same of the sonably level country, well adapted for inex-pensive railway construction. This would make a total length of railway, including the Michipicoten branch, of 225 miles. amount of money to be expended for the completion pletion was to a certain extent provided for Company there was the Dominion subsidy of \$645,000, of which \$341,440 had already been earned earned and the balance would have been earned when the when the line already graded was completed. There would be a further sum of \$142,500 to be earned be earned in respect of the 25 miles to connect with the on respect of the 25 miles to connect. with the C.P.R., making altogether \$787,764, or nearly C.P.R., making altogether it would or nearly half of the amount which it would cost to complete the line. The Government this 225 miles as security a first mortgage on on the color of line, as well as a mortgage of the color of first on the following securities: \$6,750,000 first mortgage bonds of the A.C. and H.B. Ry.; \$405,000 of first mortgage bonds of the Mani-toulin and street mortgage and mortgage on toulin and North Shore Ry: a mortgage on the rolling North Shore Ry: a mortgage on \$725. the rolling stock valued at \$1,000,000; \$725,oon first mortgage bonds of the steamers of the Comfirst mortgage bonds of the steamers of the Company; the common stock of the A.C. of the M. Ry., \$10,000,000; the common stock the land grants of both companies. The new company was to be a capital of \$40,000,000, company was to have a capital of \$40,000,000, and there was to have a capital of \$40,000,000 of inand there was to be issued \$3,000,000 of income has a second first mortcome bonds, and \$10,000,000 of first mortgage bonds, and \$10,000,000 or met and the bonds, which would be secured on all properties of the Company except the railways and steamships. The main security the Government was its first mortgage on the railways, their rolling stock, the steam-ships and the steamships and the land grants, but in addition the Government to boxe collateral in the Government was to have collateral in the ernment ment. The guarantee of the Government was to have vears, and in ernment would extend over two years, and in the case of default, by the non-completion of railway. the case of default, by the non-completion of the railway, possession could be taken of three representations the directorate, three representatives upon the directorate, prom stat number of directors being nine. From statements issued during the discussion the reorganization appeared that under the reorganization the Canadian Improvement Company would have a working capital of \$4,340,000 after name a working capital and that the after paying off all liabilities, and that the takings investments in the various undertakings amounted to \$28,259,177.00, of which there had to \$28,259,177.00 the A.C. and there had been expended on the A.C. and H.B. R., been expended on the Manitoulin H.B. Ry. So,017,297.27; on the Manitoulin Arana North Shore Ry., \$533,186.95; on the and on the International Transit Co., \$308, and on the International Transit Co., \$308,-744.51, a total of \$10,076,993.14.

Ry. The Great Northern Ry. (U.S.) is read B.C. Ry., which connects with the C.P.R.

Bellingham Bay and British Columbia
Ported to have secured an option on the B.B.
on the International Boundary at Sumas.

British Columbia Electric Ry.—The earnings for the half-year ended Dec. 31, 1903, 932, leaving £38,384 net earnings, compared 360 for same period 1902, and £27,-800d results of the half year's trading the discountries.

rectors increased the dividend on the deferred ordinary stock to 3% for the half-year, being at the rate of 6% a year. The dividend was paid April 21.

Earnings and expenses for Feb.:

			Increase
Gross Earnings.	1903.	1904.	or
			ecrease.
Railway-Vancouver division	\$10,619	\$14,008	\$3,389+
Victoria "	7,800	9,266	1,466+
Westminster "	8,060	8,189	129+
Lighting-Vancouver division	17,336	23,292	5,956+
Victoria "	8,376	10,690	2,314+
	52,191	65,445	13.254+
Less working expenses	33.488	38,903	5.415+
	18,703	26,542	7,839 +
Renewal funds	4,222	5.988	1.766+
Net income	14,481	20,554	6,073+
Agrangato grass sonnings Tuly			

Buffalo and Lake Huron Ry .- The report for the half-year ended Dec. 31 showed that after providing for the interest on the 1st and 2nd mortgage bonds, the available balance on revenue account, including the amount brought forward from the previous half-year, was £14,224 15s. This allowed of the payment of the usual dividend of 5s. 3d. a share, and left a balance of £440 is. 9d. to be carried forward. The dividend was paid early in March. The B. and L.H. Ry. Co. owns the line between Fort Erie and Goderich, Ont., 162 miles, which is leased to the G.T.R. at a fixed rental of £70,000 a year, payable half-yearly, Mar. 1 and Sept. 1. account shows that there have been issued 52,513 ordinary shares of £10 each, on which there has been paid £525,130, and that there have been issued 5½% first mortgage bonds to the amount of £297,600, and 5½% second mortgage bonds to the amount of £466,158, making a total capital indebtedness of £1,288,888. The half-yearly meeting was held in Liverpool, Eng., Mar. 2, when the report was adopted, and a resolution authorizing the payment of the dividend passed.

Canada Atlantic Ry.—J. R. Booth recently stated that the press reports to the effect that Mackenzie, Mann & Co. were negotiating for the purchase of the C.A.R. had no foundation; in fact, he denied that overtures looking to the sale of the line had come from anybody.

The net earnings for 1903, a press report states, show an increase of \$122,069 over 1902.

Canada Coals and Ry. Co.—The report for the year ended Sept. 30, 1903, as filed with the Provincial Engineer of Nova Scotia shows total receipts of \$34,516.84 made up as follows: passengers, \$3,073.05; mails and express, \$686.28; freight, \$29,521.71; mileage, \$1,235.80. The expenditures were: maintenance of ways and works, \$4,978.41; locomotive power, \$5,488.74; repairs and renewals of cars, \$2,937.66; traffic expenses, \$2,933.31, total, \$16,338. The net revenue was \$18,178.72.

Canada Eastern Ry.—Rumors to the effect that the C.P.R. has acquired the C.E.R. from the Alexander Gibson Ry. and Manufacturing Co. continue to be circulated in Montreal and New Brunswick. The latest are that the C.P.R. had an option on the line which expired Mar. 10, and that T. C. Burpee has inspected the line with a view to its purchase by the Dominion Government as a part of the Intercolonial system. The price mentioned as being asked is \$700,000.

The Canadian Electric Traction Co. (Ltd.) recently issued a prospectus in England inviting subscriptions for 53,000 shares of £1 each, part of an issue of 78,000 shares. The Company has a capital of £120,000 in £1 shares, and has been formed for the purpose

of financing the construction of electric railways in Canada, and, as a first operation, has entered into contracts which provide for the construction of certain lines in the province of Outario. We are advised that the Company has entered into a contract with the South-Western Traction Co. for financing the construction of the line and equipping it with rolling stock. C. G. Steele, formerly chairman of the Great Northern Ry. of England, is chairman of the board, and A. E. Welch, of London, Ont., is Managing Director and Secretary-Treasurer of the South-Western Traction Co.

The Canadian Improvement Co. is the title of the new Company in course of formation to take over the Consolidated Lake Superior Co. and its subsidiary companies. The Company will have a capital of \$40,000,000, with a bond issue of \$13,000,000.

See Algoma Central and Hudson Bay Ry.

Canadian Northern Ry .- Earnings: --

			Increase
	1963-04.	1902-03.	or Decrease,
July, 1903	\$254.800	\$132,000	\$122.800+
Aug	250,800	131,200	119,600+
Sept. "	270,800	182,300	88,500+
Oct. "	334.100	236,500	97,600+
Nov. "	338,300	240,500	97,800+
Dec. "	279.200	201,700	77,500+
Jan., 1904	211,800	154,700	57,100+
Feb. "	175,100	147,750	27.350+
Mar. "	201,900	174.700	27,200+
	\$2,316,800	\$1.601,350	\$715,450+

+Increase.

Net earnings for Feb. \$51,800, against \$50,100 for Feb., 1903, making net earnings for eight months ended Feb. 29 \$725,600, against \$500,610 for same period 1903. There are in operation 1,350 miles, against 1,277 in 1903.

W. Mackenzie, President, on his return from a recent visit to London, Eng., was interviewed regarding the future of the line, and stated that he had been able to place a large issue of the guaranteed bonds of the Company at a satisfactory rate, notwithstanding the sluggish state of the money market. The issue of bonds will be sufficient to provide for the Company's construction requirements for a couple of years.

The Company is applying at the current session of the Dominion Parliament for an act authorizing the consolidation of a number of the securities issued from time to time in the past, by the issue in place thereof of new stock. The Manitoba Legislature at its recent session passed an act providing for the exchange of certain outstanding guaranteed bonds and the exchange therefor of a new issue of guaranteed securities. Under the agreement of 1901 the Company was authorized to issue 2nd mortgage 5% bonds to rank after the guaranteed bonds, the total of both issues being \$10,000 a mile. Under the present act the Government guarantees the principal and interest of bonds, debentures or other securities to the extent of \$10,000 a mile, in respect of which it has guaranteed or agreed to guarantee bonds, and provision is made for the issue of such securities in exchange for the mortgage bonds at present issued.

Cape Breton Electric Co.—See Sydney and Glace Bay Ry.

Cape Breton Ry.—The report of the operations of this railway to Sept. 30, 1903, which extends from Point Tupper to St. Peter's, N.S., 31 miles, and which was opened for traffic Sept. 7, 1903, is given in the report of the Provincial Engineer of Nova Scotia. The receipts were \$788.11 and the expenditure \$1,386.43, showing a net loss on the 23 days' operation of \$598.32. The Company ran mixed trains 1,395 miles during the period under review.

Central Ry. Co.—The report of this Company, which now forms part of the Halifax and Southwestern Ry., for the year ended

## Galena-Signal Oil Company,

Franklin, Pa., and Toronto, Ont.

Successor to Galena Oil Company and Signal Oil Company, sole Manufacturers of the celebrated Galena Coach, Engine and Car Oils, and Sibley's Perfection Valve and Signal Oils.

CHARLES MILLER,
PRESIDENT:

Sept. 30, 1903, as published by the Nova Sco-feb. 342.82, made up as follows: Passengers, \$32,742.36. \$32,742.26; parcels and mails, \$4,073.70; freight, \$27,850.79; rents, etc., \$676.05. The expenditure was: Maintenance of way and works of the specific power, \$12,776. works,\$20,005.10; locomotive power,\$12,776. 26; repairs and renewals of cars, \$2,776; trafof repairs and renewals of cars, \$2,770; under the expenses, \$7,440.84; general charges, \$4,-069,94; total, \$47,068.18. The net revenue was \$18,274.64.

Columbia and Western Ry.—The Dominion Government has announced that the B.C. Legislature was within its rights in passing an act confirming the cancellation by the Government ernment of blocks 4,593 and 4,594 of the land these blocks. C. and W.Ry. The granting of the C. and W.Ry. these blocks, which are about 100 miles from the railway, was made the subject of a special inquiry by the Legislature in 1903, when it was found that in the original reserve there was sufficient land to satisfy the land grant earned, and that the granting of the blocks in queer. question was in violation of the subsidy act and against the public interest.

Dominion Atlantic Ry.—Gross earnings for Feb., \$52,400, against \$43,525, making for two months ended Feb. 29, \$106,200, against 91,723 for same period, 1903.

The eighth annual meeting was held in dent, was in the chair, and in moving the adoption of the option of the report said the directors were satisfied. satisfied with the result of the past year's work: working, in view of the weather and other conductions conditions, and they were still more satisfied with at the conditions. with the prospects of the undertaking. There had be and a day had been unusual floods and rain, and a day or two previously the directors received a was under water. But their officers in Canada had assured them that the injury done by the floods would not cost more than £200 to with the market of £12,000 as compared The traffic receipts for the past year with those for 1902, but the expenses had also been higher than the state of rails had been higher. been put into the track, and the siding accommodation had been increased, in view of the addition. additional traffic they now had to carry. The Covernment raffic they now had to carry by £1,700. Government toll was also larger by £1,700.

The man about 74% The working expenses had been about 74% traffic showed an increase of 46,000 tons. The directors are confident that the railway The directors were confident that the railway was nonwas now in a thoroughly efficient condition, and, with a thoroughly efficient condition, and, with favorable seasons, the traffics might be expected to go on increasing. The finances the Communication are sound and healthy of the Company were in a sound and healthy condition, and about £10,000 had been invested in containing and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound and about £10,000 had been invested in a sound about £10,000 had bee ed in consols.

The general development of the traff. the traffic was highly satisfactory in view of the circumstances. He hoped that the day was not far distant when they would again be able to pay 5% on the preference stock, and participate in the ordinary stockholders would begin to participate in the revenue. The undertaking Rave every the revenue of the revenue. The Rave every hope of a successful future. The steamers cost £250,000, and the amount to the credit of the suspense account represented about 14%. P. Gifkins, General Manager, emphasized the very considerable develophent which was taking place, and which he would would continue to take place. Owing hoped would continue to take place. Owing to the about continue to take place. to the abnormal wet of last summer passenger business. The business fell below his expectations. tourist travel represented a very valuable elenent to the Annapolis Valley, and any abthe Annapolis Valley, and and the other was therefore to be deplored. On the of tourists was therefore to be depicted trade in their hand, the essential features of eatisfactory, and trade in their territory were satisfactory, and with an important territory were satisfactory. with an improvement in the recent conditions weather reason to of wa improvement in the recent conditions of weather they would have every reason to account. The report and statement of accounts were adopted, as also was a resolution determining the right of priority as to capital of the preference over the ordinary stock of the Preference over the ordinary.

It was pointed out that

owing to an error made by the Company's former solicitors, the preference shareholders had been put into a worse position, in the event of the liquidation of the Company, than The solicthey were in under the old act. itor said it was understood that the preference stock had a priority as to capi-tal over the ordinary stock, and it was part of the terms on which the preference shareholders came into the arrangement, adding that he could mention a large number of stocks which were non-cumulative as to dividend, but which had priority as to capital.

Elgin and Havelock Ry .- The mortgage deed dated Feb. 10, 1904, given to the Eastern Trust Co., to secure an issue of bonds to the amount of \$50,000, has been deposited with the Secretary of State at Ottawa. (Mar., pg. 90.)

G.T.R. Assessment.—The G.T.R. secured an act at the recent session of the Ontario Legislature for an act confirming a by-law of the town of Barrie, fixing the rate of taxation for certain of the Company's property in the town. The assessment has been fixed at \$35,000, at which figure it will remain for 25 years, except in respect of additions, may be made to the Company's property after 1904. Should Barrie cease to be a divisional point the agreement is to become void.

G.T.R.- The list of applicants for the £161,000 of first mortgage 4% 50 year gold bonds of the Grand Trunk Western Ry., closed April 8, when it was notified that the issue had been over-subscribed. The bonds are redeemable in 1950, and the interest is guaranteed unconditionally by the G.T.R. The first coupon is payable in full July 1.

Great Northern Ry. of Canada.-Ross & Macrae, railway contractors, have started an action in Montreal to recover \$50,000 from the G.N.R. Co. for work done on the Company's lines and for material and rolling stock supplied.

Halifax and Yarmouth Ry .- The report for the year ended Sept. 30, 1903, as filed with the Provincial Engineer of Nova Scotia, shows receipts of \$38,896.08, made up as follows: Passengers, \$25,784.61; mails, \$2,008.-85; freight, \$10,576.27; miscellaneous, \$526.-35. The expenditure included maintenance of way and works, \$8,460.77; locomotive power, \$9,385 24; car repairs, \$1,570.34; traffic expenses, \$5,880.79; general charges, \$1,594.00; total; \$26,891.14. Net earnings, \$12,004.94. The general balance sheet shows a surplus of \$34,322.86.

Halifax Electric Tramway Co .- Gross receipts from railway:

	1904.	1903.	or Decrease.
Jan.,	\$10,677.51	\$10,867.33	\$189.82-
Feb		9,321.75	572.72+
Mar	11,151.74	10,195,12	956.62+
	\$31,723.72	\$30.384.20	\$1,339.52

+ Increase. - Decrease.

Hamilton, Grimsby and Beamsville Electric Ry .- By an act passed at the recent session of the Ontario Legislature, by-law 287 of the city of Hamilton, respecting the issue of additional bonds for the construction of the extension from Vineland to St. Catharines, Ont., was confirmed.

Intercolonial Ry .- The public accounts for the Dominion, recently presented to Parliament, show that the expenditure charged to capital on the I.C.R. for the year ended June 30, 1903, was \$2,254,266.

Inverness Coal and Ry. Co.-The railway portion of this Company's undertaking earned \$130,514.44 for the year ended Sept, 30, 1903, as shown by particulars given in the report of the Nova Scotia Provincial Enreport of the Nova Scotta Frovincial Engineer. Of this income \$21,208.34 was received from passenger traffic, \$312.16 from express; \$107,678.58 from freight, and \$1,315. 36 from miscellaneous sources. The expenditure was: maintenance of ways and works,

\$19,219.46; locomotive power \$39,662.06; repairs and renewals of cars and equipment, \$6,388.82; traffic expenses, \$18,198.97; general charges, \$8,709.81; total, \$92,179.12. The net revenue was \$38,335.32. The Company has expended on its railway, mines, plant, property, rights, construction and development, \$10,126,609.65, and has issued \$2,115,000 out of a total of \$3,000,000 of bonds.

Irondale, Bancroft and Ottawa Ry .- By an act passed at the recent session of the Ontario Legislature the I. B. and O. Ry. Co. has been authorized to sell its line to, or amalgamate with the James Bay Ry., the G.T.R. or the Toronto, Lindsay and Pembroke Ry. In connection with the passing of the act some opposition was made by the Misses Pusey, daughters of the original promoter, the late C. J. Pusey, but was withdrawn on the promoters of the bill stating that their interests would be protected. A writ has been issued hy F. C. Jones, a shareholder, who seeks, as assignee of the share of the late Sarah H. Jones in the property of the late C. J. Pusey, for an injunction against L. B. Howland, President and General Manager; Z. A. Lash, K.C., and H. S. Mara, who are holders of large interests in the line, from proceeding with the sale of the railway.

Kingston, Portsmouth and Cataraqui Ry. Co. (Electric).—An act was passed at the recent session of the Ontario Legislature, on the application of the Kingston city council, amending its agreement with the Kingston Street Ry. Co., now a part of the K.P. and C. Ry. Co., by providing for the payment of a fine of \$100 a day for every day during which the Company neglects to run its cars; and for the forfeiture of the charter if the Company makes default for five successive days. In the event of an order of forfeiture being obtained the city may take over the Company's line at a valuation as provided for at the expiration of the franchise. A clause in the agreement giving the Company power to close the line in winter, and to substitute a service by sleighs was struck out, and the consequent provision of a continuous service winter and summer was provided for. (Mar., pg. 78.)

London and Port Stanley Ry .- At a recent board meeting a by-law was passed authorizing the delivery to the corporation of the city of London of certain bonds of the Company. The object of this, it was explained, was to place the control of the line in the hands of the city, otherwise the city, though, in reality, owning all the line, would be placed in the position of a mere creditor with no vote on the directorate except on 1,828 shares. The G.T.R. owns 2,317 shares. The rental received by the city of London from the Pere Marquette Rd., which now operates the line in connection with its Buffalo division (the Lake Erie and Detroit River Ry.) amounts to \$10,000, and for the year ended Dec. 31, 1903, it is entitled to an additional \$3,500 on percentage account, the receipts exceeding \$80,000 a year, upon which basis the rental is

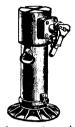
London, Ont., Street Ry .- Gross earnings:

	1903-04.	1902-03.	Increase or Decrease.
Dec		\$15,041.80	\$89 <b>9</b> .97 711.85
Jan	11,409.02	12,120.87	
Feb	9,316.03	10,716.42	1,400,39-
Mar	11,937.00	11,533,68	403.32+
- Decrease	\$46,803.88 + Increase.	\$49,412.77	\$2,608,89-

Minneapolis, St. Paul and Sault Ste. Marie Ry.-The Company has financed its extensions to date by means of the sale of first mortgage consolidated 4% bonds, guaranteed as to interest by the C.P.R., and authorized at \$20,000 a mile. The \$4,866,000 of these bonds, for which application has been made to have listed on the New York Stock Ex-

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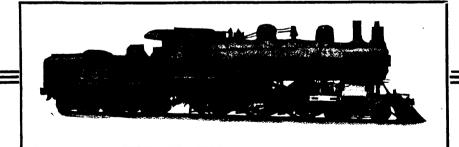
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GENERAL OFFICE 25 Broad Street, NEW YORK CITY.

change, represent some of the bonds sold for this purpose. This mortgage, authorized in 1888, was for \$21,000,000 on the 800 miles then arise for any then existing, and at \$20,000 a mile for any additions. Out of the \$21,000,000 sufficient was reserved to retire all underlying bonds. The road is now practically 1,500 miles in length, 700 miles having been added. The authorized marks \$35. authorized amount is therefore nearly \$35,-545,000, including the reserve to retire \$8,-545,000, including the reserve to retire \$8,-545,000 underlying bonds. Not including these bonds, the total amount available would be \$36 be \$26,455,000. The Company has outstanding \$25,058,000 of these bonds. The newly 188ued bonds represented in the \$4,866,000 now listed appears therefore to be but in the neighborhood of \$1,400,000, the rest having been issued prior to June 30, 1903.—Wall Street Journal.

Vidland Ry.—At the annual meeting of shareholders held in Montreal Mar. 22, the officers and directors for the current year:

President, W. Strachan; Vice-President, A.

Ulnam: Tracking I Reatty: Secretary, A. Hovenden; W. Strachan; Vice-President, Hovenden; Treasurer, J. Beatty; Secretary, A. Pearson, G. G. Faulkener, F. J. McMullen, J. Mackay Mackay, and Hon. S. H. Holmes.

The report for the year ended Sept. 30, 1903, as published in the report of the Pro-following information: Passenger receipts, \$30,285.55; freight receipts, \$29,938.93; par-cels receipt. cels receipts, \$366.01; total, \$60,590.19. expenditures were: maintenance of way and works, \$11,173.81; locomotive power, \$16,-146.38. 146.38; repairs and renewals of cars, \$2,639.-charges, \$4,322.60; total, \$44,961.25. The ended Sent 20, 1003 the receipts amounted ended Sept. 30, 1902, the receipts amounted to \$40,506, 43; the expenditure to \$33,104.20, and the net revenue to \$7,402.23.

Montreal Street Ry.—Earnings and expenses for Feb.

rep	·, 1904:		
	•		Increase
Passenger earning Miscellaneous ear Total	1004.	1903.	or
Missenge	- 7-4-	- 71.	Decrease.
"tecellacr earning	10 C.C.		
neous en	3.3107,023.44	\$139,005.47	\$27.957.97+
Miscellaneous ear Total ear	n-		
() " " (Sr	166.2.	2,734.92	1,073.07-
		141,800,39	26,884.90+
Operating expense Not carnings Pixed charges Surplus Expenses	es. 131,420.59	108,803.02	22,617.57+
Sued chases	37,264.70	32,997.37	4.267.33+
puplus Res	16,940,05		
Pense	10,940,05	15.715.93	1,224.12+
earning of c	20,324.65	17,281.44	3,043.21+
Surplus Expenses / of ca			
Oct. 1 to F	·· 78.68	78.23	
Oct. 1 to Fe	b. 201		
assen -	29.		Increase
	1903-04.	1902-03.	or
Miscellaneous			Decrease.
	\$929,570.88	\$831,256.48	\$98,314.40+
OL THE P		7-3-1-3-17	+7-13-4-1
Onal carnin	8,250.68	14,332,33	6,081,65
Letat: " Ka	-12,00.00		
	927 Nat r6	Q QQ Q.	
	937,821.56	845,588,81	92,232.75+
Pet earn	6.9 0	845,588,81	-
Pet earn	6.9 0	845,588.81 533,378.85	84,878.96+
Pet earn	6.9 0	845,588,81 533,378.85 312,209.96	84,878,96+ 7,353,79+
et earnings. Surplus Exp.	6.9 0	845,588.81 533,378.85	84,878.96+ 7,353.79+
et earnings. Surplus Exp.	6.9 0	845,588,81 533,378.85 312,209.96 81,706,18	84,878.96+ 7,353.79+ 4,082.27+
	6.9 0	845,588,81 533,378.85 312,209.96	84,878.96+ 7,353.79+

o, net in M. P. & I. Ry. Co.'s bonds owned by this increase.

The Super-The Supreme Court recently gave a decision in the appeal of the city against the decision of cision of the appeal of the city against the brought he Quebec courts in the action brought by the Quebec courts in the action to have by the city to recover \$21,000, alleged to have been illegally deducted from the a have been illegally deducted from the inclusive. Under the agreement with the rency 4% on the not corpus up to \$1,000,000 rency 4% on the net earnings up to \$1,000,000 an increase on further inand an increased percentage on further incentage is only payable on its lines within the The Company contends that this percity, while the city holds that it is payable in respect of the city holds that it is payable in respect of the city holds that it is payable in respect of the income arising from all the in favor of the Count has found in favor of the city. The Court has found in favor of the city. The sale will be taken to the Privy Council in England by the Company.

Northern Ry .-- On Dec. 20, 1850, the county of Simcoe, Ont., purchased £50,000 of stock in the Northern Ry., now a part of the G.T.R. system, and is now owner of £36,276. A committee was recently appointed to dispose of the stock to the best advantage.

Nova Scotia Steel and Coal Co .- The report of the operations of the railway portion of the undertaking of this Company for the year ended Sept. 30, 1903, as given in the report of the Provincial Engineer of Nova Scotia, shows the receipts to have been \$15,102.-46, and the expenses \$17,311.31, a net loss of

Ottawa, Brockville and St. Lawrence Rv. -The following are the officers and directors for the current year: President, H. T. Shillington, M.D., Ottawa; Vice-President, Jas. Curry, Toronto; Treasurer, F. O'Reilly, Ottawa; other directors: Capt. J. W. Hutt, Liverpool, N.S.; H. Carson, J. W. Shillington, M.D.; R. T. Shillington, M.D., Ottawa.

The Company is applying at the current session of the Dominion Parliament for power to increase its capital to \$1,000,000.

Port Arthur Electric Ry. - Gross receipts for Feb. \$1,733.55, against \$1,233.70 for Feb., 1903.

Prince Edward Island Ry .- During the year ended June 30, 1903, there was expended on capital account \$829,414.

Qu'Appelle, Long Lake and Saskatchewan Ry.-Net loss for Jan., \$4.414.74, against net earnings of \$1,557.50 for Jan., 1903; making for two months ended Jan. 31, net earnings of \$2,805.09, against \$2.832.25 for same period 1902-03.

Quebec and Lake St. John Ry .- Gross earnings for Feb., \$24,498, against \$20,307 for Feb., 1902, making fortwo months ended Feb. 29, \$48,856, against \$43,105 for same period

Quebec Bridge and Ry. Co .- A copy of the mortgage trust deed dated Feb. 1, 1904, to the Royal Trust Co., to secure an issue of first mortgage bonds to the amount of \$6,-678,000 guaranteed by the Dominion Government, has been deposited with the Secretary of State at Ottawa.

Quebec Central Ry .- Gross earnings for Feb., \$44,476.63; working expenses, \$36,585, 71; net earnings, \$7,890.92, against \$39,580,-26 gross and \$4,513.64 net for Feb., 1903. Net earnings for two months ended Feb. 29, \$12,122.39, against \$8,479.09 for same period

A dividend of 21/4% was paid April 15, on the new 7% income bonds for the year ended Dec. 31, 1903.

Quebec Southern Ry .- G. C. Dessaulles was appointed a receiver by the Exchequer Court on the application of creditors, Mar. 20, and was given power on Mar. 26, to borrow \$12,000 to pay wages and to operate the line. The circumstances leading up to the appoint-ment of the receiver included a strike of employes on the South Shore division on Feb. 29, and a seizure by them to secure their wages; and a subsequent seizure of the lines forming the Q.S. Ry., before the South Shore Ry. was absorbed, to satisfy a judgment for \$24,000. Early in March J. M. M. Duff took possession of the lines as trustee for the bondholders, and it was officially announced that there had been filed with the Registrar of the Exchequer Court a scheme of arrangement in conformity with the provisions of the Railway Act, 1903, section 285. This section provides for the filing of a scheme of arrange-ment with creditors by the directors of an insolvent company; the effect of the filing of this scheme is that the Exchequer Court may summarily restrain any action taken against the Company, and after the publication of notice of the filing of the scheme of arrangement, no execution, attachment or other process, against the property of the Com-

pany shall be available without leave of the court. Under section 286, the scheme of arrangement to become operative must be assented to by three-fourths in value of debenture stock, or holders of other charges, but such consent is not necessary if the scheme does not prejudicially affect any right or in-terest of any class of stockholder. Application for confirmation of the scheme is to be made within three months, and in the event of this being done it will be enrolled, and copies of the arrangement are to be printed and sold. This is the first Company to take advantage of the provision in the new act.

St. Thomas St. Ry .- The report of operations from Jan. 1 to Mar. 31 has been presented to the St. Thomas, Ont., city council by the board of street railway commissioners. At the first of the year there was a balance of \$200.24; the ticket sales were \$930.75; cash fares, \$740.61; amounts advanced by city to meet expenses, to pay Dec. accounts and to pay coupons, \$2,361.90; miscellaneous receipts, \$75.10; total, \$4,308.60. The expenditure, including all wages, supply, equipment, repairs, power, coupons, etc., was \$4,418.02, leaving an overdraft at the bank of \$109.42.

Sandwich, Windsor and Amherstburg Ry. This railway, which extends from Windsor to Amherstburg, Ont., and includes the City Railway of Windsor, has a mileage of 25.022, and is owned by the Detroit United Railway
Co. The receipts for the year ended Dec. 31, 1903, as reported at the annual meeting held in Detroit, Mich., Mar. 16, were \$89, 160. 26, and the operating expenses, including taxes, were \$56,980.58, leaving net earnings from operation, \$32,179.68. The income from other sources was \$12,117.69, making a total After providing for interest on of \$44,297.37. the funded debt \$6,837.38, there remained a surplus of \$37,459.99. During the year the mileage of the line was increased from 11.890 to 25.022 miles. The following statistics are given:--

_	1903.	1902.
Revenue, passengers\$	1,715,114	\$1,463,824
Transfer	158,913	128,228
Employes	25.774	20,463
Receipts per rev. pass	.0513C.	.0448c
" per passenger	0.463C.	.0406с
Car mileage	521,394	437,211
Earnings per car mile	.17100.	.1514C
Expenses	. 1093C.	.09200
Net earnings	.06170.	.05940

The expenditure on completing the line to Amherstburg, and improving the track in Windsor, etc., was \$315,267.28. The balance sheet is as follows:-

Capital stock	\$297,000.00
Mortgage bonds	297,000.00
Accident fund	1,221.76
Bills payable	10,000.00
Bills payable	169,430.14
Accrued Interest	1,354.C4
Unredeemed tickets	488.35
Surplus	33,518.00
Investment\$802.809.04	
Accounts receivable 506.33	
Stores 3.691.56	
Prepaid taxes 883.40	
Cash 2,121.96	

\$810,012,29 \$810,012.29

The directors and officers for the year are: President, H. A. Everett, Cleveland, Ohio, Vice-President, J. C. Hutchins, Detroit, Mich.; other directors: E. W. Moore, Cleveland; H. B. Van Courtlandt, New York; M. Brennan, A. Pack, C. B. King, Jos. Bampton, Detroit; Secretary, A. E. Peters; Manager, J. Anderson.

An act has been passed at the recent session of the Ontario Legislature declaring that chap. 97 of 1893 repealed sections of previous acts relating to the borrowing powers of the Company; confirming a mortgage to the National Trust Co. securing a mortgage of \$600,000; authorizing the transfer of the City Railway of Windsor to the S.W. and A. Ry. Co., and giving permission to the Company to acquire stock in other similar com-

An action has been brought by the Company against the town of Amherstburg for the payment of \$10,000 bonus.

Shuswap and Okanagan Ry.—Net receipts for year ended Dec. 31, 1903, \$20,423, against \$17,211 for 1902.

Sydney and Glace Bay Ry .-- The differences between the Cape Breton Electric Co. and the Dominion Coal Co. with reference to the management and operation of the S. and G.B.Rv. have been settled. The two Companies each own a half interest in the stock of the S. and G.B.Ry., and each obtained an injunction restraining the other from operating the line. As there were only four directors matters were at a deadlock, until after some negotiations it was decided to appoint a fifth director. C. Archibald, of Halifax, was subsequently appointed, and the injunctions will be dissolved.

Sydney and Louisburg Ry.—The accounts of the Dominion Coal Co. show that from Mar. 1, 1902, to Dec. 31, 1903, there was expended on capital account on the S. and L. Ry., 43,585, and \$50,367 for rolling stock.

The accounts for the year ended Sept. 30,

1903, as presented to the Nova Scotia ernment, give the following information: Revenue—passengers, \$25,996.82; mails, \$829 20; freight, \$676,970.20; mileage, \$33.429.49; total, \$737,225.71. Expenditure - mainten ance of way, works, etc., \$40,704.93; locomotive power, \$134,683.55; car repairs, \$62,472.64; traffic expenses, \$88,024.36; general charges, \$37,875.00; total, \$363,760.48; net revenue, \$363.465.22 revenue, \$363,465.23.

Temiscouata Ry.—Gross receipts for Jan. \$8,151.29, against \$6,911.21 for Jan., 1903. making for seven months ended Jan. 31,

## RAILWAY AND RUBBER GOODS of the Highest STEAMBOAT RUBBER GOODS Grade . . . .

### HOSE

For Air Brakes, Steam, Gas, Water, Pneumatic Tools, Fire Protection.



### **PACKINGS**

Special Valves and Gaskets. Mats, Matting and Stair Treads.

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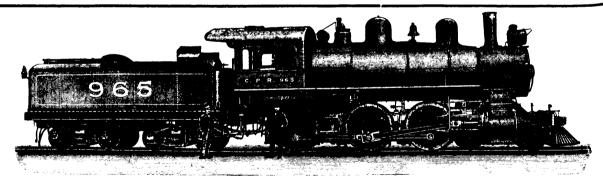
Satisfactory in Service.

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## THE CUTTA PERCHA & RUBBER MFG. CO. OF TORONTO

Head Office and Warerooms:

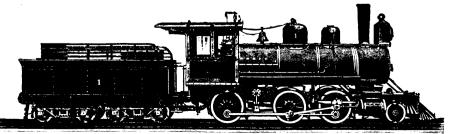
45, 47 and 49 WEST FRONT STREET, TORONTO, CANADA



The Saxon Engine Works, late Rich. Hartmann, Limited CHEMNITZ (Germany),

Carry on the construction of LOCOMOTIVES of every description.

Number of Workmen, 5,200.



Capital, **\$**3,000,000. \$80,843.24, against \$82,262.61 for same period,

Toronto, Hamilton and Buffalo Ry. Gross receipts for Mar., \$64,003.79, against 47,246.60 for Mar., 1902, making for ten months ended Mar. 31, \$492,940.04, against \$400,041.53 for same period, 1902-03.

Toronto Railway Co.—Gross earnings:

•	1904.	1903.	Increase
Jan Feb Mar	3179.359.92	\$161,538.14	Decrease \$17,821.78+
Mar	168,904.33 183,643.08	146.539.21	22,365.12+ 24,100,23+
+Increase \$	531,907.33	\$467,620.20	\$64,287.13+

Victoria Terminal Ry. and Ferry Co.-Application has been made to the Supreme Source of A. E. Henry, who has an action pending. (Feb., pg. 43).

White Pass and Yukon Ry.—Gross earnings for Feb., \$27,788, making for seven months to Feb. 29, \$1,237,767.

Windsor City Ry.—See Sandwich, Windsor and Amherstburg Ry.

Winnipeg Electric Street Ry. Co.—The following are the officers and directors for the current year: President, W. Mackenzie, To-other disce-President, W. Whyte, Winnipeg; other directors, Sir Wm. Van Horne, Mon-treal; D. D. Mann, D. B. Hanna, Toronto; A. M. Nanton, Winnipeg; Secretary-Treasurer, F. M. Morse. The Company has not issued a report Company has not issued a report for 1903, but it is stated that the receipts were \$287,279.45, of which the city received \$14,363.96.

## A Michigan Central Rate Case.

On April 1 Commissioner Prouty, of the Interstate Commissioner Prouty, of the Commission, delivered the sion in the case of C. M. Cist vs. Michigan Central Rd. Co.:

Niagara-on-the-Lake is situated on the Canadian side of the Niagara River near where it where it empties into Lake Ontario. The dethrongs, a U.S. corporation, maintains a through passenger service from this point to of the defendant from Niagara-on-the-Lake Victoria Canada a distance of about 30 to Victoria, Canada, a distance of about 30 miles in Acada, a distance of about 30 miles in a distance of a distance o miles, thence across the International Bridge to Black Rock on the U.S. side and from there bush New York to Buffalo over the U.S. side and from the Central, 5 miles. The bridge is operated by an independent company, which charges 6c. for each passenger carried across it in the from Nicoth defendant. The entire distance from Niagara-on-the-Lake to Buffalo is 35.3

By the New York Central line it is 30 miles from Buffalo to Lewiston, which is situated upon the Now York Central line it is 30 miles upon the New York Central line it is 30 miles of the Niagara River upon the New York side of the Niagara River Steams 5 miles from Niagara-on-the-Lake. Steamers ply between Lewiston and Niagara-on-the-T ply between Lewiston and Niagaraon-the-Lake, so that it is possible to reach Buffalo from the latter point over this route as well as by the line of the defendant. The charging more than 2C a mile passenger charging more than 2c. a mile passenger Niagara and the boat fare between Lewiston and making a total Niagara-on-the-Lake is 25c., making a total by this route of 85c.

The route of 85c.

fendant from Niagara-on-the-Lake to Buffalo

\$1.10 h... \$ \$1.10, but during the summer season it makes a but during the summer season it makes a special rate of 85c. to meet compe-tion. The station of the defendant at Niagara. The station of the defendant at the steamboat Lake is situated upon, or near the steamboat Lake is situated upon its trains at steamboat wharf, but it also stops its trains at 85c. rate it is necessary to purchase a ticket fare is charged on the train. The station; no rate in the charged on the train.

The complainant boarded the train at Queen without land to pay without a ticket and was compelled to pay i, 10 for transportation to Buffalo. He complains that this was illegal; first, because the charge of \$1.10 is unreasonably high; second, because the defendant, while charging him that amount, performed the same service for the other passengers for 85c.

We cannot find upon this record that \$1.10 is an unreasonable charge from Niagara-onthe-Lake to Buffalo. This is a branch line of the defendant, and the case does not show density of traffic nor the circumstances under which the passenger service is performed. It simply appears that a rate of 3c. a mile is imposed. While lower rates are in force in many parts of the U.S., it is also true that there is hardly any section of country in which a rate as high as 3c. a mile is not charged for a local service of this distance. The fact that a rate of 85c. is made during the summer season to meet competition via Lewiston is not controlling, nor is the further fact that the New York Central under compulsion of law establishes a rate of 2c. a mile from Lewiston to Buffalo. We do not find that this rate is reasonable; we simply fail to find that it is unreasonable, as there is no evidence in the record upon which an intelligent judg-ment can be formed. This is a most unsatis-factory disposition of the question, and if the case were of wider application, or the subject of more general complaint, it might be our duty to proceed on our own motion to develop the necessary facts.

The case is meagre of facts showing

whether there is or ought to be a station of the defendant at Queen St. It simply appears that there is no station building and no station agent at that point, but that the defendant stops all its trains there to discharge and receive passengers. It was said by counsel for the defendant that if there were a station at that point no ticket would be sold for Buffalo at less than \$1.10.

Upon the above findings the first proposi-tion of the complainant, that the rate which he was forced to pay was an unreasonable

one, is not sustained.

The second proposition is that it was unjust to charge him \$1.10 while other passengers upon the train were carried for 85c. The regular rate from Niagara-on-the-Lake to Buffalo was \$1.10, and this was the amount collected of all persons who paid their fare to the conductor. Any person who saw fit to do so could purchase a special ticket during a certain portion of the year for 85c. We think that when a railroad company makes a reduction from its regular rates, which are not found unreasonable, it may require that the person desiring to avail himself of that reduction shall purchase a ticket, and that it may collect of all persons not holding such special

ticket the reasonable ordinary fare.

But the complainant urges that in this case he could not purchase this special ticket for the reason that the defendant did not have the same on sale at the point where he boarded the train. There was no way in which he, taking the train at that point, could have obtained transportation to Buffalo for less than the amount which he actually paid. This presents the question, ought the defendant to have maintained a ticket office at Queen St.? And perhaps the further question, Might the defendant impose a higher charge from an intermediate point than from a more distant point for the same service? Of these matters we think this Commission has no jurisdiction. The discrimination, if there be one, is local, and the locality is in Canada. Assuming that we have jurisdiction over the reasonableness of this through rate, it seems clear that no law of the U.S. can extend to a question of discrimination between places in a foreign country.

The complaint is dismissed.

The Canadian Railway Instruction Institute, established by H. Miller at Toronto, has opened a branch school at Norwich, Ont.

#### May Birthdays.

Many happy returns of the day to Garret Vliet, Assistant Master Mechanic, G.T.R., at Portland, Me., born at Milwaukee,

Wis., May 5, 1854. W. R. Baker, Assistant to Vice-President, C.P.R., at Montreal, born at York, Eng.,

May 25, 1852.
S. Barker, M.P., ex-General Manager Northern Ry., Hamilton, Ont., born at Kings-

ton, Ont., May 25, 1839.
C. W. Burpee, Superintendent C.P.R. at Brownville Jct., Me., born at Keswick, N.B.,

May 15, 1861.

E. T. Byrne, Commercial Agent, G.T.R., at St. Louis, Mo., born at Albany, N.Y.,

May 3, 1859.
G. S. Cantlie, Superintendent Car Service,

G. S. Cantlie, Superintendent Car Service, C.P.R. at Montreal, born there May 2, 1867. C. L. Coon, City Passenger and Ticket Agent, G.T.R., at Buffalo, N.Y., born at Watertown, N.Y., May 20, 1868. G. H. Dodge, Assistant Treasurer and Superintendent, Levis County Rv., Levis, Que., born at Billerica, Mass., May 14, 1875. M. Donaldson, General Superintendent, Canada Atlantic Ry., at Ottawa, Ont., born near Edinburgh, Scotland, May 1, 1851.

G. C. Dunn, ex-Chief Engineer, Ottawa, Northern and Western Ry., Pontiac Pacific Jet. Ry., Hull Electric Ry., and Interprovincial Bridge, born at Quebec, May 13, 1862. Hon. W. C. Edwards, Timiskaming Steam-

boat Co., Rockland, Ont., born at Clarence,

Ont., May 7, 1844.

J. D. Evans, Engineer Central Ontario Ry., Trenton, Ont., born at Goderich, Ont.,

May 27, 1843. E. T. Galt, President Alberta Ry. and Coal Co., at Lethbridge, Alta., born at Sherbrooke,

Que., May 24, 1850.
A. Hardy, General Freight and Passenger Agent, Quebec and Lake St. John Ry., at Quebec, born there May 12, 1855.

C. M. Hays, 2nd Vice-President and General Manager, G.T.R., born at Rock Island,

Ill., May 16, 1856.
W. T. Huggan, Accountant and Auditor

Prince Edward Island Ry., at Charlottetown, P.E.I., born at Halifax, N.S., May 24, 1851.

J. Hunter, Chief Engineer and General Superintendent Esquimalt and Nanaimo Ry., at Victoria, B.C., born at Aberdeen, Scot-

land, May 7, 1839. W. S. Kinnear, Chief Engineer, Michigan Central Rd., at Detroit, Mich., born at Cir-

cleville, Ohio, May 25, 1864.
G. A. Parker, Auditor Dominion Atlantic Ry., at Kentville, N.S., born at Walton, N.S.,

May 1, 1855.
N. J. Power, Auditor of Disbursements, G.T.R., at Montreal, born at Rochester, N.Y., May 19, 1843.

H. B. Sherwood, Superintendent Bay of Quinte Ry., at Napanee, Ont., born at Auburn, N.Y., May 25, 1847.
E. Tiffin, General Traffic Manager, I.C.R.,

at Moncton, N.B., born at Hamilton, Ont.,

May 5, 1849.

J. H. Walsh, General Freight and Passenger Agent, Quebec Central Ry., at Sher-

brooke, Que., born at Quebec May 12, 1860. H. K. Wicksteed, Engineer in Charge of Surveys, Canadian Northern Ry., east of Port

Arthur, born at Quebec May 25, 1855.

James Yeo, ex-Roadmaster Intercolonial Ry., Riviere du Loup, Que., born at Bideford, Devonshire, Eng., May 1, 1830.

There was expended on the canal system of the Dominion on capital account during the year ended June 30, 1903, \$1,823,273.

The Kingston, Portsmouth and Cataraqui Electric Ry. has been reopened for traffic, after having been closed down for some time, owing to a difference between the Company and the city council of Kingston, Ont.

## MONTREAL STEEL WORKS

MANUFACTURERS OF STEEL CASTINGS

(UP TO 15 TONS)

OF ALL KINDS

SWITCHES AND TRACK WORK

FOR STEAM AND ELECTRIC ROADS

**SPRINGS** 

MANGANESE STEEL CASTINGS

For wearing Parts, Insuring Great Hardness and Durability

INTERLOCKING PLANTS

WORKS AND OFFICE: CANAL BANK, PT. ST. CHARLES, MONTREAL

## The Locomotive & Machine Company

of MONTREAL (Limited)

-BUILDERS OF ---

## SINGLE EXPANSION AND COMPOUND LOCOMOTIVES

for all Classes of Service

also STRUCTURAL STEEL

for Bridges, Buildings, Roof Trusses, Etc.

Estimates furnished on application and early deliveries assured on orders placed now.

MONTREAL, Railway Chambers. Offices: Street

## JAS. W. PYKE & COMPANY

**CANADIAN REPRESENTATIVES** 

FRIED. KRUPP, ESSEN, GERMANY.

Steel Rails.

Wrought Iron Steel-Tyred Disc Wheels Locomotive and Car Wheel Tyres.

FOR STEAM AND ELECTRIC RAILWAYS.

Axles, Crank Pins, Forgings, Etc.

OFFICE: MERCHANTS BANK BUILDING MONTREAL. 205 ST. JAMES STREET,

### STEAM RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1903.

In this table the minus mark (-) before figures in the net earnings column shows that there was a deficit in the operations of the line to the extent of the figures given. The numbers in brackets—thus (1)—after the name of a railway refer to notes at the foot of the table on page 156.

Name of Railway.	Mileage.	Gross Earnings	Net Earnings	Proportion of earnings to working expenses.	Earnings per train mile.	Operating per train mile.	Train mileage.	Engine mileage.	Passen- gers carried.	Freight carried.
lberta Ry. & Coal Co (1)	64.62	\$ 204,889 40	\$ 104,351 70	p. c.	Cents. 391.00	Cents.	Miles. 52,333	Miles. 122,841	9,434	Tons. 60,94
bert Southern (2)	10.00				• • • • • • •				••••••	
ab a Lake Superior (a)	91.75	430,261 04	181,275 31 - 8,419 00		747.00 78.00		57,647 63,600	29 <b>7,6</b> 92 63,600	43,840	913,23
antic & Lake Superior (3) ay of Quinte edlington & Nelson (1)	72.82	224,248 67	99,381 87	1.79	1.486		150,832	150,832	14,677 88,537	23,24 353,34
edlington & Nelson (4)	15 20	3,536 03	-5,918 45	372.90	•9495		3,724	3,724	723	19,00
Marille, Westport & Soult Sta	90.32	360,614 42	188,685 74	209.74	4.699	2.18	78,866	79,887	12,930	29,83
uct Wines & Algeria	45.00 16.62	44,502 94	15,376 00		117.52		37,869	38,079	50,185	18,53
alor & Moneton	32.00	2,700 90 18,371 65	- 4,792 94 2,798 02		0.50 83.50		5,400 20,224	5,400 21,796	1,849 11,680	4,07 20,66
algary & Edmonton anada Atlantic (5).	295.93	698,255 64	277,651 78	142.00	183.86	110.00	379,786	420,506	92,612	169,86
ana Coal & Ry Co	458.60 12.00	1,908,025 53 31,871 78	691,090 27 16,037 41				1,333,397 8,624	1,782,235	377,779	1 494,80
ana Lastern	136.00	116,536 43	2,674 66	1.02	68.50		170,119	21,389 170,119	9,810 53,831	67,71
anadian Northern (7).  Anadian Government Rys.:—	382.19	5,705,596 16	111,871 43		164.00	160.00	3,480,049	4,957,834	760,365	4,940,86
Intern Government Rys :	1,236.55	2,449,579 33	860,285 86	154.00	109.00	107.00	1,443,065	1,630,407	281,801	901,60
Intercolonial (8)	1,310.26	6,324,323 72	127,670 53	102.06	99.66		6,345,500	8,019,320	2,404,230	2,790,7
am Pacific (a)	209.00 7,439.00	217,714 24 43,299,486 90	- 41,923 58 15,841,295 92		74.74		306,597	407,695	205,265	106,51
araquet	68.00	31,206 84	- 1,249 89 - 1,249 89		50.06	123.00 52.06	22,434,153 62,340		5,580,739 6,370	10,162,72 26,36
ent " Untario ()	13.00	1,792 86	- 1,441 34	55.40	22.83		6,100	7,000	5,868	,5
to- " KV. (Non- C	134.60 74.00	190,784 56 65,342 82	62,405 46 18,274 64			99.52 91.06	129,000 49,494	176,405 57,319	89,064 52,698	195,21
has West Carrie	48.15	13,241 23	- 16,410 95		117.00	262.00	11,319		2,224	32,23 20,36
dr. "Oll Allandia /	32.00	134,757 23	- 58,319 05			261.00	73,764	138,342	29,730	512,62
le: "On. V	220,50 4,50	965,446 42 6,431 38	241,323 74 - 232 46			142.00	508,539 5,449	508,539 5,449	265,348 9,639	232,58
Tan "all & Ni		9,380 20	156 78	101.00	54-17	532.00	17,318	17,318	4,288	
irs return & C. s.	78.00 1.33	270,960 50 4,858 87	62,125 54 3,427 34	129.00	99.00	76.39	273,360	273,360	153,326	143,12
ira. Tilniz /	3,154.48				146 00	98.00	17,253,750	21,473,371	7,971.587	11,818,17
	208.10	369,327 92	- 8,321 82	97.79	89.56	91.58	412,366	518,852	160,019	319,8
	16.78 50.20	5,953 99 33,318 12	4,165 09 8,484 54			42.00	4,330 40,554	4,330 46,824	910 42,486	9,10
	29.00	4,261 70	44 45	101.00	39.40	38.00	10,800	10,800	3,749	3,73
On J So KU O C C	53.30 61.00	60,339 43 106,935 79	- 25,479 80 21,304 41			123.00	66,481 74,879	69,792 78,622	21,206	129,77
Slose State & Ottawa	48.00	21,464 17	- 552 10			69.16	31,900	32,200	30,147 10,301	124, 17 18, 26
		29,222 17	- 14,654 85			203.00	21,550	36,065	7,595	12,7
in iver 1/- ii	34.00 3.86	14,825 86	- 1,300 62 1,210 76		87.99	89.59	18,000 1,376	18,250 1,376	6,698 254	17,15
	112.85	182,832 27	26,700 35	117.10	111.00	95.18	164,030	164,030	44,857	128,0
	3.50 222.35	1,210 60 815,875 49	- 258 00 216,569 65			245.00 81.80	5,994 652,815	5,994 892,547	3,592	30
	11.50	6,934 75	- 21 012 71			185.65	15,050	15,050	604,953 725	977,36
	5.00	9,989 15	3,716 16			146.00	4,300	4,300	26,400	30,10
North Shore	16.00	17,794 90 47,896 38	2,922 87 28,860 77			73.81	18,780 11,105	19,719 19,272	8,766 7,282	28,66 127,03
alley (21)	35.46	154,615 84	23,995 02	118.37	97.50	82.00	159,905	221,761	140,527	346,45
ontreal & Atlantic (22)	57.50 163 70	57,155 49 450,945 41	14,056 12 6,075 27			52.00 112.92	81,664	81,896	46,317	28,13
wreal & Vince (23)	40.60	73,527 07	2,090 57			88.00	393,987 80,735	520,991 80,735	209,702	829,86 86,61
West rermont Jet. (23)	23.60	199,184 43	46,934 86		1	94.00	162,312	162,312	104,386	999,01
Bruns Oft Sheppard (21).	24.10 54 70	22,079 41 90,160 16	- 23,613 34 11,504 91			178.00 215.00	25,731 47,184	27,472 56,080	20,789 16,085	21,11
Brunswick Coal & Ry. Co.	44 66	9,117 72	196 96	102.00	35.80	350.20	25,470	25,470	3,674	31,21 5,20
ew Brus & Nipissing		26,601 26	4,391 89			55.38	40,102	46,900	20,393	41,19
ord Scoti- Ck Southern	5.50 82.50	43,047 00 36,831 08	5.73934 $-27.73223$			347 · 59	10,762 57,410	11,838 57,410	11,003	24,10 20,06
Man Steel & Coal Co	12.50	15,102 46	-2,208 85	87.00	100.07	115.00	15,000	35,000	5,821	133,85
ki Wa & N. tuern & Western (25)	31.00 137.20	20,427 27 205,303 94	3,189 40 15,710 09			50.00 128.00	34,788 147,468	34,788 148,539	6,861	32,48
on Psburg D York	56.79	101,239 55	7,841 22	108.00	89.00	83.00	113,141	113,141	115,577	61,26 64,79
dawa Worthern & Western (25) hillipsb & New York. ontiac urg Ry. & Quarry Co h'Appelle, Long Lake & Saskat- hewan. hebe. Central	7.50	7,811 75	4,444 07	231.96	468.00	202.00	1,668	1,668		6,26
wan Lake & Saskat-	4.25	• • • • • • • • • • • • • • • • • • • •							• • • • • • • • • • • • •	• • • • • • • •
Wat Cent	253.96	378,800 03	42,110 64			152.00	220,797	279,608	33,847	123,34
	213.50	694,029 12	205,790 19			78.00	622,612	634,379	222,286	445,13
levoix (28)	240.00	431,683 38	121,102 14		120,00	90.00	341,386	527,696	207,993	233,46
/* · · · · · · · · · · · · · · · · · · ·	30.00	38,152 94	9,168 01	131.20	110.00	84.40	34,342	34,342	131,481	26,6

STEAM RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1903-Continued.

Name of Railway.	Mileage.	Gross Earnings	Net ' Earnings	Proportion of earnings to working expenses.	Earnings per train mile.	Operating per train mile.	Train mileage.	Engine mileage.	Passengers carried.	Freight carried.
				p. c.	Cents.	Cents.	Miles.	Miles.	1	Tons. 141,755
Quebec Southern	143.50	\$ 168,653 37	- 17,177 6	5 90.85	71.78	791.00	234,930	236,011	78,309	255,321
Red Mountain	9.53	66,826 98	4,574 5	7 107.00	398.00	370.00	16,804	31,099	13,423	
Rutland & Noyan (29)	3.39				· · · · · · · ·					36,546
Salisbury & Harvey	45.00			3 102.00		89.00		31,099	13,093	
Stanstead, Shefford & Chambly.	43.00	79,710 34				94.00	73,552	73,552	141,489	
St. Clair Tunnel (30)	2.25	228,425 35						98,087		270,142
St. Lawrence & Adirondack (31)						54.68				
St. Mary's River	30.00	26,915 28				68.60			4,432	-21.700
Sydney & Louisburg	48.96					102.00				3,963,10
Temiscouata	113.00	134,913 13	1 6	3 101.00		135.00			43,142	20,937 27,285
Tillsonburg, Lake Erie & Pacific		19,239 12	1 - 1 -	1 104.00		40.75				27,285
Thousand Islands	6.33	31,305 69		9 135.00		65.97				764,840
Toronto, Hamilton & Buffalo (32)						108.00				
Vancouver, Victoria & Eastern	15.90	15,953 58		1116.00		101.00			12,258	21,703
Victoria & Sydney	16.26					106.00				1.497
Victoria Terminal Ry. & Ferry Co.	18.40					75.00				
York & Carleton	5.75	3,017 00	- 307 o	0 93.00	40.00	475.00				
	18,987.98	\$96,064,526 72	\$28,583,003 3	9			60,382,920	77,178,493	22,148,742	47,373,417

(1) The Alberta Ry, and Coal Co. has running powers over the C.P.R. from Montana Jct. to Lethbridge, 2.10 miles.

(2) The Albert Southern Ry., from Harvey Branch Jct. to Alma, N.B., 16 miles, and the Harvey branch from Albert to Harvey Bank,

3 miles, are not in operation.

(3) The Atlantic and Lake Superior Ry. comprises the Baie des Chaleurs Ry., 98 miles; the Great Eastern Ry., 23 miles, and the Ottawa Valley Ry., 7 miles. The Great Eastern Ry. extending from Yamaska to River St. Francis, 6 miles; from Nicolet to St. Gregoire, 7 miles; and from Yamaska to Sorel, 10 miles; 23 miles in all, was not operated during the year.

(4) The Bedlington and Nelson Ry. has running powers over the C.P.R. from Creston Jct. to Sirdar Jct., B.C., 8.70 miles.

(5) The Canada Atlantic Ry. includes the following leased lines: Central Counties Ry., 37.40 miles, and Pembroke Southern Ry., 20.90 miles.

(6) The Canada Southern Ry. has 150 miles of double track.

(7) The Canadian Northern Ry. includes the Winnipeg-Great Northern Ry., 40 miles; the Port Arthur, Duluth and Western Ry., 85 miles; the Manitoba and Southeastern Ry., 107.90 miles; the Lake Manitoba Ry. and Canal Co.'s line, 125 miles; and the Ontario and Rainy River Ry., 164 miles, and the lines formerly occupied by the Northern Pacific Ry. in Manitoba, and leased from the Manitoba. toba Government, 354.65 miles. It also operates as part of its through line from Port Arthur to Winnipeg, 56 miles of line in Minnesota.

(8) The Intercolonial Ry. has running powers over the G.T.R. from Point Levis to Hadlow, 1.50 miles; Chaudiere Curve to Chaudiere, 1.18 miles; and Ste. Rosalie Jct. to Montreal, 37.62 miles; total, 40.30 miles. The mileage given, 1,301.94, is exclusive of the Windsor branch, 32 miles, worked by the Dominion Atlantic Ry.

(9) The Canadian Pacific Ry. comprises C.P.R. mileage owned, 4,651.60; leased lines, Fredericton, 22,10 miles; New Brunswick, 175.00; New Brunswick and Canada, 117.20; St. John and Maine, 92.10; St. John Bridge

and Ry. extension, 2.00; St. Stephen and Milltown, 4.60; Tobique Valley, 28.00; Lake de la Madelaine, 3.00; Montreal and Northwest, 201.00; Montreal and Ottawa, 93.00; Ontario and Ouebec, 472.00; St. Lawrence west, 201.00; Montreal and Ottawa, 93.30; Ontario and Quebec, 473.00; St. Lawrence and Ottawa, 58.40; Credit Valley, 175.70; Guelph Jct., 15.00; Toronto, Hamilton Buffalo, 2.70; Toronto, Grey and Bruce, 191. 10; West Ontario Pacific, 26.60; Manitoba and Northwestern, 234.20; Manitoba Southwestern Colonization, 214.40; Kootanay and western Colonization, 214.40; Kootenay and Arrowhead, 33.60; Columbia and Kootenay Arrowhead, 33.60; Columbia and Kootenay, 60.00; Nakusp and Slocan, 36.30; Saskatchewan and Western, 18.20; Shuswap Okanagan, 50.80; Columbia and Western, 157.10; Great Northwest Central, 71.00; British Columbia Southern, 202.40; Vancouver and Lulu Island, 17.25. It has also running powers over the Canada Atlantic Ry. Montreal and Ottawa Jct. to Ottawa, 35.40. The C.P.R. has 35.70 miles of double track.

(Continued on page 157.)

## THE SAFETY CAR HEATING AND LIGHTING CO.

GENERAL OFFICES:—160 Broadway, New York.

1017 Monadnock Bidg., Chicago, III.

1015 Missouri Trust Bldg., St. Louis, Mo.

**BRANCH OFFICES:**— 501 Arcade Bidg., Philadelphia, Pa.

1005 Mutual Savings Bank Bldg., San Francisco, Cal.

## Pintsch System Car and Buoy Lighting.

This Company controls in the United States and Canada the celebrated Pintsch System of Car and Buoy Lighting which is universally used. It is economical, safe, efficient, and approved by the railway managers and the Lighthouse Board of the United States, and has received the highest awards for excellence at the World's Expositions at Massaw Vianna St. Patershurg London Parlie Parlie Chicago Attack and Par Expositions at Moscow, Vienna, St. Petersburg, London, Berlin, Paris, Chicago, Atlanta and Buffalo. 130,000 cars, 6,000 Locomotives and 1,700 Buoys are equipped with this light. 170 Railroads in the United States, Canada and Mexico have adopted this system of lighting, applied on over 23,000 cars.

#### Car Heating

By Steam Jacket System of Hot Water Circulation, Direct Steam and Regulating Direct Steam Systems. 130 Railroads in the United States are using these systems of Heating-applied on over 14,500 cars.

AUTOMATIC STEAM TRAPS.

STRAIGHT PORT COUPLERS.

#### ELECTRIC RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1903,

The following abbreviations are used in the names of railways:—E., electric; E. R., electric railway; E. S. R., electric street railway; railway. Ry, railway; S. R., street railway. The minus mark (-) in the column for net earnings shows that there was a deficit in the operations of the extent of the figures given. The numbers in brackets—thus (1)—after the name of a railway, refer to notes on page 159.

	1	I							
Name of Railway.	Mileage.	Gross Earnings.	Net Earnings.	Proportion of earnings to working expenses.	Earnings per train mile.	Operating per train mile	Car mileage.	Passen- gers carried.	Freight carried
erlin & Waterloo S. R. (1)	Ì	<u> </u>	<del></del>	p. c.	Cents.	Cents.		1	Tons,
antford S. R. (1) antford S. R. (2) antford S. R	. 5.52	\$24,148 53	\$ 4,921 28		25.60	20.40	94,810	548,000	
itish Col.	7.00		1,733 07		22.02	19.00	66,456		
ailtiord S. R. itish Columbia E. R. (2) browall E. Co. alt, p.	. 46.00		120,808 24	140	15.98	15.98			
Pre Breton E. Co.  Alt, Preston & Hespeler S. R.  and Veston & Hespeler S. R.	. 11.80		5,463 18	121	22.00	22.00	115,597		
Advall E. R	6.00		- 301 97	99	104.00	10.60	193,097	290,436	
nt, Preston & Hespeler S. Rand Valley Ry. (3)	9.00		3,713 66		35.50	31.10	84,660		
wild Valley Ry. (3)	. 6.00	3,406 00			2.60	42.00	13,200		
Amilton and Dundas S. R. (5)	. 5.50		173 82		8.58	8.58	196,750		
Amilton, Grimsby & Beamsville E. R.	9.90		41,781 91	104	20.98	14.76	687,819	3,204,504	
milton C Dundas S. R. (5)	7.25		14,825 53	13	46.21	25.52	71,638		
umilton and Dundas S. R. (5)	. 23.00		31,363 02		255.00	16.50	248,746		
milton & Radial E. R	. 12.00				24.14	11.92		1 010.0	
Amilton, Grimsby & Beamsville E. R Amilton Radial E. R Amilton S. R. (5) Il E. Co. (6) Idernational Transit Co. (18)	. 22.00		65,676 94		15.43	9.73			
la • CO. (6)		0, 0,	14,869 88		18.30		403,817	705,476	
			1,921 59		212.00	19.60	12,200		
wis a " Portemant a C . T. D.	1		9,071 95		38.77	29.42	,		
ing outily R. (_)			174 27	U -	14.20	13.90	· <		
4. S. R. (8)	1 5		63,892 43		13.11	8.09			
					26.00	18.00			
		1 177 3 - 7		105	18.94		728,823		
Ont -1 3, R / 1	0, -,		7,515 11 881,034 07	1 . 1		18.45			
Plo Ti APrmina I D ( )					19.25	11.41	11,232,924		
		0.000	29,804 26		23.96	11.34	215,764	431,953	
			- 13,565 37		15.60	64.00	27,905	69,893	
					32.00	17.00	316,089		
			25,917 32		19 00	14.00	498,462		
					84.20	57.00			
De Prant F D	1 2		139,822 28		14.50	8.40			
		24,048 34	7,554 95	145	22.30	15.30	108,030	509,195	
leh. R	1								
		18,799 55	7,836 70	172	19.00	11.00	94,298	252,079	
bebec Ry., Light & Power Co. (Citade lebec Ry., Light & Power Co. (Mont morency Division) (14)	1				ì				
me Ry Timber	. 17.22	187,655 69	58,133 93	144	159.00	10.31	1,179,031	4,424,127	
		_							]
andwich, Wind (14)	25.00		33,514 04	167	47.73	28.41	176,977	666,460	
crorooke s Amherstburg Ry.	23.15	83,693 99	31,237 57	159	187.00	11.72	447,468	1,720,377	
John Rv S. K. (18)	7.00	25,000 00	9,325 00			22.39		550,000	
Tag 2 12	12.00	102,154 35	36,160 34	155	95.80	12.64	521,824	2,341,167	
nomacc	4.50		6,827 83	135	32.00	21.31	82,632	465,175	
outo 2"F (18)									
onto & M.	8.50	17,248 22	558 56	103	109.00	10.60	157,438	416,854	
onto Raimico Ry	5.87		10,201 16	162	158.00	9.70	167,269		
"Onto & " (15)	96.74	2,000,067 34	868,090 57	175	181.00	10.20			
partoro E. R	5.07	17,007 21	5,036 05	142	98.00	6.90	172,428	424,101	
Tapes is we called E. K. (10)	4,50		8,772 25	186	13.00	7.00	139,020	340.672	
ronto & Scarboro E. R	20.00		108,210 15	187	194.00	10.33	1,196,503	5,341,542	
rmouth S.R.	11.50	0,0	6,440 09	140	20.00	11.48	111,456		
5.R	2.00	9,929 21	- 3,474 73	75	15.50	18.50	73,060		
************************				(3)	* 3 * 3 * 1		7.11000	100,047	
odstock, ThamesValley & Ingersoll S.R.		J, J- J	37171 70						

(Continued from page 156.)

(10) The Central Ontario Ry mileage includes its leased line, the Marmora Ry. and hining Co. feet to be be as the Ontario, dining Co., formerly known as the Ontario, Belmont of the State of the

Mining Co., formerly known as the Ontain, Belmont and Northern Ry., 9.60 miles.

(11) The Central Ry. of Nova Scotia has from Middleton Jct. to Middleton, 0.33 miles.

(12) The Dominion Atlantic mileage includes (12) The Dominion Atlantic mileage includes the Windsor branch, 32 miles, of the Inter-the L.C. R. from Halifax to Windsor Jct., 14

C(13) The Fredericton and St. Mary's Bridge Ratern Ry., 0.17 miles. The earnings are the City from trains run across the bridge by the Canada Eastern and Canadian Pacific Railway.

883.79; Great Western, 562.30; Brantford,

Norfolk and Port Burwell, 34.39; Buffalo and Lake Huron, 162.00; Grand Trunk Georgian Bay and Lake Erie, 170.00; Owen Sound branch, 12.42; London, Huron and Bruce, 68.00; Waterloo Junction, 10.25; South Norfolk, 17.00; Wellington, Grey and Bruce, 168.13; Northern, 172.10; North Simcoe, 33.00; Hamilton and Northwestern, 173.00; Northern Pacific Junction, 111.37; Toronto Belt Line, 12.79; Midland, 165.00; Grand Junction, 85.21; Toronto and Nipissing, 85.00; Lake Simcoe Junction, 26.00; Victoria, 53.00; Whitby, Port Perry and Lindsay, 46.00; Jacques Cartier Union, 6.50; Montreal and Champlain Junction, 61.73; Beauharnois Junction, 19.50. The Company also has running powers over the Chaudiere branch of the Intercolonial Ry., 5.77 miles. The G.T.R. had 492.89 miles of double track.

(15) The Great Northern Ry. has running powers over the Quebec and Lake St. John Ry. from Quebec to Riviere a Pierre, 56.50 miles. Its mileage includes the Montford and

Gatineau Colonization Ry., 33 miles.
(16) The Gulf Shore Ry. is operated by the Caraquet Ry.

(17) The Halifax and Yarmouth has 19.30 miles not in operation.

(18) The mileage of the Kent Northern includes the St. Louis and Richibucto Ry., 7 miles, which was not operated during the year.

(19) The Kettle Valley Ry. was in the hands of construction company until June 30, and operating expenses were not kept separate from construction accounts.

(20) The Lake Erie and Detroit River Ry. includes the London and Port Stanley Ry., 24.00, operated under lease.
(21) The Massawipi Valley is leased to the

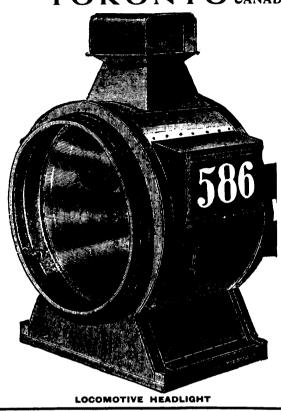
Boston and Maine Rd., and has running powers over the G.T.R. from Lennoxville to Sherbrooke, Que., 2.95 miles.

(Continued on page 159.)

## The N. L. Piper Railway Supply Co.

TORONTO CANADA

R



## = SUPERIOR = LOCOMOTIVE BRASS W

is one of our leaders. Backed by 15 years of success in manufacturing this line, our output today represents the highest attainment in this line. The quality and workmanship are the best offered in Canada,

### -THE PRICES ARE THE LOWEST CONSISTENT WITH THE QUALITY.—

Send for our new Illustrated Locomotive Catalogue showing our standard goods and special lines and let us figure on your requirements in patterns and special work to order.

## JAMES MORRISON BRASS MFG. CO.,

TORONTO

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PLYMOUTH — CHERBOURG — SOUTHAMPTON. Sailing from New York, Saturdays, at

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PHILADELPHIA—LIVERPOOL. Sailing from Philadelphia on Saturdays.

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PORTLAND TO LIVERPOOL. PORTLAND TO AVONMOUTH DOCKS, (Bristol and Antwerp.)

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> Catalogue and Price List sent on application.

Holt, Renfrew & <sup>Go.</sup> TORONTO and QUEBEC.

## Notes to Steam Railway Statistics.

(Continued from page 157.)

(22) The Montreal and Atlantic Ry. includes the Lake Champlain and St. Lawrence Jct. Ry., 60.70 miles, operated under lease, and is operated by the C.P.R. It has 5.5 miles or double track.

(23) The Montreal and Province and Montreal and Vermont Jct. lines are leased by the Central Vermont.

(24) The Nelson and Fort Sheppard Ry. has running powers over the C.P.R. from Five Mile Point to Nelson, B.C., 4.7 miles.

(25) The Ottawa, Northern and Western Ry.

(25) The Ottawa, Northern and Western Ry. Ry., 2.50 miles. Its mileage includes the cial Rrid.

(26) The Pontiac and Renfrew Ry., 4.25 miles, was not under traffic.

(27) Was not under traffic. (27) The Quebec Central Ry. has running powers over the Intercolonial Ry. from Harlaka let laka jct. to Levis, 5.00 miles.

(28) The Quebec, Montmorency and Charlevoix Ry. is operated by the Quebec Ry. Light and Power Co. as a steam and electric railway. railway. The figures given in this table are those for the operation of the line by steam. It has six miles of double track.

(29) The Rutland and Noyan Ry. is operated by the Rutland Ry., a United States company the Rutland Ry., a United States company any. Details of traffic were not returned.

(30) The earnings of the St. Clair Tunnel
refranchischer the

are from tolls on vehicles hauled through the

(31) The St. Lawrence and Adirondack Ry. has running powers over the G.T.R. from Valleyfield to Beauharnois, 13.30 miles, and Montreal of the C.P.R. from Adirondack Jct. to

Montreal, 8.70 miles.

Rull The Toronto, Hamilton and Buffalo Ry, has running powers over the Hamilton and Dunday, Parking Parking Hamilton to Dunday, and Dundas Ry, from Hamilton to Dundas, Jundas Ry, from Hamilton to Dundas, 3.67 miles, and over the G.T.R. from Hamilton to G.T.R. Jct., 1.50 miles. It has 4.69 miles of double track.

## Notes to Electric Railway Statistics.

cludes the Berlin and Waterloo mileage in-2.5 miles. Power is furnished by the Berlin Light Commissioners.

(2) The B.C. Electric Ry. has 7.50 miles of double track.

(3) The Grand Valley Ry. obtains its power from the Grand Valley Ry, obtains as power. Woods. Brantford St. Ry., which with the Woodstock, Thames Valley and Ingersoll Ry, and Ingersoll by the Ry, and the G.V.R, are controlled by the (4) The Halifax E. Tramway Co. has 1.58

miles of double track.

(5) The Hamilton and Dundas Ry. and the Hamilton Street Ry. obtain their power from the Catarage Processing The H.S. Ry. has the Cataract Power Co. The H.S. Ry. has 10.50 miles of double track.

ouble ... The Hull Electric Co. has 6.85 miles of ouble ... 15.163 miles double track. Locomotives ran 15,163 miles over the line.

(7) The Levis County Ry. was operated on Dec. (2022 on three from Dec. 6, 1902, to June 30, 1903, on three miles of track.

(8) The London Street Ry. has 11.68 miles
of double to the Ry. has 12.68 miles

(9) The Montreal Park and Island Ry. has 12,75 miles of double track.

(10) The Montreal Street Ry. has 45.78 miles of double track.

(11) The locomotive mileage over the Montreal Terminal Ry. was 20,124 miles.

(12) The Niagara Falls, Park and River Ry, has 11.43 miles of double track.

(13) The Ottawa E.R. has 18.28 miles of
(14) The Ottawa E.R. has 18.28 miles of
(14) The Ottawa E.R. has 18.28 miles of

the Citack.

There are six miles of double track on track on track on the Citadel division, and 0.50 miles of double track on the Management division of the track on the Montmorency division of the Montmorency Disht and Power Co. lines of the Quebec Ry., Light and Power Co.

(15) The Toronto Ry, has 46.87 miles of double track.

(16) The Wesley Park and Clifton E. R. obtains its power from the Niagara, St. Catharines and Toronto Ry.

(17) The Winnipeg Street Ry. has 5.00 miles of double track.

(18) No returns or incomplete returns received.

#### Railway Equipment Notes.

The Peterborough Radial Ry. is in the market for five new cars.

The Canadian Northern Ry. has not yet definitely decided what its rolling stock requirements for 1904 will be.

The G.T.R., between Feb. 20 and April 9, added to its equipment 63 refrigerator cars, built at its Montreal shops.

The Cumberland Ry. and Coal Co. has ordered two first-class passenger coaches, and is in the market for other equipment.

The Intercolonial Ry. has received the last of an order of 70 box cars of 60,000 lbs. capacity from Rhodes, Curry & Co., Amherst,

The New Brunswick Southern Ry. is reported to be negotiating with the I.C.R. for the purchase of a locomotive and other rolling stock.

The Halifax and Southwestern Ry. has placed an order for 40 flat cars and two conductors' vans with Rhodes, Curry & Co., Amherst, N.S.

The Montreal Street Ry. is building at its own shops 50 semi-convertible cars 40 ft. over all, and containing a number of new features in car construction.

The Inverness Coal and Ry. Co. added to its equipment during the last financial year one locomotive, 45 gondola coal cars, two conductor's vans and one flanger.

The Sydney and Glace Bay Ry. during the last fiscal year added one tool car, 157 coal cars, and one snow plough to its equipment, and broke up seven platform cars.

The B.C. Electric Ry. will build, during the current year, at its Vancouver shops 10 convertible city cars, 20 ft. long; one double truck interurban car 30 ft. long; three interurban cars 50 ft. long, and one flat car.

The Cape Breton Ry., extending from Point Tupper to St. Peter's, N S., 31 miles, is being operated with the following equipment: three locomotives, one first-class, one second-class and two composite cars and 54 platform cars.

The Wabash Rd. has received an Atlantic type passenger engine, no. 1602, for service in Canada. During the next few months some additional locomotives will be placed in service for its Canadian traffic, but how many or what class has not been determined.

Rhodes, Curry & Co., Amherst, N.S., has received orders for 50 box cars, 60,000 lbs. capacity, from the Quebec and Lake St. John Ry.; for 15 flat cars, 40,000 lbs. capacity, from the Dominion Coal Co., and for 250 coal cars, 30,000 lbs. capacity, and seven baggage cars from the I.C.R.

The C.P.R. added to its equipment between Feb. 17 and Mar. 9 three freight locomotives from the Saxon Engine Works, Chemnitz, Germany; 10 first-class cars from its Hochelaga shops, Montreal; 10 box cars (completing an order for 500), and 165 flat cars from its Perth, Ont., shops.

The G.T.R., according to a press report, is building at its Fort Gratiot, Mich., shops a new pattern of switch locomotive, especially constructed for heavy yard work. With its tender it weighs 249,500 lbs. It carries a working steam pressure of 200 lbs. a square inch. Its cylinders are 20 by 26 ins. The drivers are 56 ins. in diameter.

The Temiskaming and Northern Ontario Ry. Commission has ordered three first-class passenger coaches, four second-class passenger coaches, and two baggage, mail and express cars, for delivery in Sept. and Oct. The too flat cars, 60,000 lbs. capacity, ordered from Rhodes, Curry & Co., of Amherst, N.S., were delivered by April 30.

The C.P.R.'s 216 box cars, 60,000 lbs. capacity, which are being built at its Perth, Ont., shops will be 36 ft. 8 in. long, 9 ft. 1 3/8 in. wide over frame, and 36 ft. long, 8 ft. 6 in. wide and 8 ft. high inside. They will be equipped with Westinghouse air-brake, Simplex brake beams, Simplex body and truck bolsters, with Susemihl side bearings.

We are advised that there is no truth in the report that the American Locomotive Co. has purchased the Rogers Locomotive Works at Paterson, N.J. The press reports stated that the A.L. Co. had acquired a controlling interest in the Rogers Company, and that it was intended to close the works and to maintain only the Cooke Works at that place.

The C.P.R.'s first-class car, which is being constructed at its Hochelaga shops, is 60 ft long, 9 ft. 10½ in. wide. It will be equipped with wide vestibule, double body bolsters, standard steel platforms, Westinghouse air brake, acetylene gas, steam heat, and will be carried on four-wheeled trucks with Krupp 40 in, steel-tired wheels and inside hung brakes.

The C.P.R., recently placed the following orders for equipment: 10 simple consolidation locomotives with the Canadian Locomotive Co., and 11 similar locomotives with the Lo-comotive and Machine Co., Montreal; six switching locomotives at its Delorimier ave. shops, Montreal; 16 baggage cars and 11 mail and express cars at its Hochelaga shops, Montreal; 25 30-ton box cars and 42 30-ton flat cars at its Perth, Ont., shops; and three vans at its Farnham, Que., shops.

The Canadian Locomotive Co., Kingston, Ont., has placed an order for the installation of a hydraulic rivetting and flanging plant in its shops. The rivetter will be a 125-ton machine complete with necessary hydraulic crane, accumulator, pumps, etc. This plant will be modern and strictly up to date, and will be the equal of anything of the kind in any other locomotive shops in Canada or the U.S. The contractors agreed to have it installed in seven weeks, and its installation will increase the capacity of the boiler shop from six to at least 15 locomotives a month.

Rhodes, Curry and Co., Ltd., of Amherst, N.S., declared a dividend of 12% at the annual meeting held recently. Following are the officers and directors for the current year: President and General Manager, N. Curry; Vice-President and Assistant General Manager, N. A. Rhodes; other directors: J. C. Robertson, Hon. T. R. Black, J. M. Townsend, C. T. Hillson; Secretary Treasurer, J. M. Curry; Manager Sydney branch, A. S. Curry; Chief Accountant, W. H. Morse; Manager car building department, N. Curry; Assistant Manager, G. T. Douglas; Master Car Builder, J. W. McCallum.

The general dimensions of the 10 simple consolidation locomotives ordered by the C.P.R. from the Canadian Locomotive Co., and for the 11 similar locomotives ordered from the Locomotive and Machine Co. of Montreal are: diameter of cylinder, 21 in.; length of stroke, 28 in.; wheels, 57 in.; weight, about 180,000 lbs.; tender-tank, 5,000 galls. capacity, 12 tons of coal, weight about 130,-000 lbs; driving wheel trucks and engine truck tyres, Krupp crucible; tender wheels, cast iron; simplex tender truck bolsters and brake beams; Westinghouse American equalized driver brake, Westinghouse Automatic air brake, straight air brake, electric headlights, and piston balanced valves.

## Drummond, McCall & Co.

IRON. STEEL AND METAL MERCHANTS

Branch Office: TORONTO

Montreal

## STEEL RAILS

**Prompt Shipment** from stock of 60 lb. and 80 lb. A. S. C. E. Standard Sections, the product of The Algoma Steel Co., of Sault Ste Marie, Ont.

For Import:—English Rails, "Barrow" brand, all standard sections; also rails of best German manufacture.

IMPORTERS OF

Beams, Channels, Angles, Steel Plates, Mild Steel Bars, Cold Rolled Steel Shafting, Wire Rope, Tool Steel, Etc. KEPT IN MONTREAL

COMPLETE STOCK

## INTERCOLONIAL

Calendar for May says:

"True eloquence consists in saying all that is necessary and nothing but what is necessary." -La Rochefoucauld.

The fishing in the streams and lakes of Quebec and the Maritime Provinces and the ocean bordering those provinces is the finest on the continent. Write for Intercolonial detailed pamphlets.

**FAST** FREIGHT **TRAINS** 



RUNNING DAILY BETWEEN

MONTREAL, QUEBEC, ST. JOHN, HALIFAX and the SYDNEYS

Give every satisfaction to shippers



## **MARION** STEAM SHOVELS

BALLAST UNLOADERS

CARS, RAILS, SCRAPERS, BARROWS, TOOLS, Etc.

ESTATE LATE JAMES COOPER - MONTREAL

The Locomotive and Machine Co., of Montreal, is building the following locomotives: a six-wheel saddle tank logging locomotive, cylinders saddle tank logging locality bia Mills Timber and Trading Co.; two 10-wheat 1. wheel locomotives, cylinders 19 x 26 ins., and one switching locomotive, cylinders 18x24 ins. for the Toronto, Hamilton and Buffalo Ry.; two 6-wheel switching locomotives, cylinders 22 to ins., for the Dominion Coal Co., Sydney M. 19 x 26 ins., for the Dominion Coal Co., Sydney M. 19 x 26 ins., for the Dominion Coal Co., Sydney M. 19 x 20 x 20 fewheel ncy, N.S., for the Dominion Coal Co., Sysaddle tank locomotive, cylinders 20 x 24 ins., for the Cumberland Ry. and Coal Co., for delivery June 15; one 8-wheel passenger locomotive, cylinders 17 x 24 ins., for the Brock-lile, Westport and Northwestern Ry. for deivery June 15; 11 consolidation locomotives, cylinders 21 x 28 ins., for the C.P.R., delivery to be consolidation locomotives, to be consolidation locomotives, and the consolidation locomotives, the consolidation locomotives, and the consolidation locomotives are sent to be consolidation. to be completed by Sept. 1; 10 10-wheel passenger locomotives, cylinders 20 x 26 ins., for the G.T.R., delivery to be completed by Oct.

and Machine Co. of Montreal with that of the American Locomotive Co. were completed Mar. 31. We are advised that there will be changed that there will be no change in the title or policy of the Mon-treal company, as it will be carried on as a Canadian industry, and as an entire and separate organization from any of the American comotive Co.'s plants. Additional machin-ery is being placed as rapidly as possible, and at an analysis of the plant at an early date some portions of the plant in handinged so that there may be no delay in handling the business. The structural steel plant is complete and modern. The general is general layout of the works and the modern plant installed is calculated to enable the Company to turn out work expeditiously. A temporary board has been elected, including the following officers and directors: President, S. R. Caller President of the S. R. Callaway, New York, President of the American Locomotive Co.; Vice-President, A.J. Pitkin, New York, Vice-President A.L. Co.; other directors: K. W. Blackwell, Monday, President Montreal Steel Co.; D. W. Morrow. Morrow; Manager, Roger Miller, Montreal, a member of the board of the old company; Secretary, Leigh Best, New York, Secretary New York, Co.; Treasurer, C. B. Denny, Manager C. T. Callaway: Superintendent, G. Manager, S. T. Callaway; Superintendent, G. Garry, formerly Superintendent of the Rhode M. I Books of the A. L. Co.; Chief Engineer, M. J. Butler.

The Michigan Central Rd. has added to its equipment in Canada 20 new 36 ft. merchan-Thomas, 80,000 lbs. capacity, built at its St. Thomas, Ont., shops, and 16 new 80,000 lb. box cars. It has also received 14 compound consolidation locomotives from the Schenger. Schenectady works of the American Locomotive Co, 10 of these locomotives are now in Service on the Canadian Division. The gen-

eral dimensions are:	The gen-
Cylinders. 23 in. and : lineter driving wheel centre Total weight of engine. Beiler on drivers	
Diamers.	
Inside at driving wheel	35 in. x 32 in.
total meter of boiler	50 in.
b eight of engine	100 000 lbs
Steam pressure Firebox, length Flues Firebox, length	. 104,000 1001
Flue Width	96 ins.
Heating surface, tubes Total h. arch 4	365
S surface to b	16 ft.
Cotal harman arch fluor	140,05 sq. ft.
Total heating surface.  Grate area Tonuage rating The C an addian Locomotive Co.	2.217.1 Sq. ft.
Talves, him	50.2 SQ. ft.
onnage pressure.	Piston
one Reared locomotive for the Joh Re et al. 4 Mines, Que. The follow	ie huilding
ge eral dimensions:	insons Co.,
Re eral dimensions:	ing are the
Pauge dinensions:	
W Used	aft 6 in
of the in	Bituminous
Gauge  Fuel used  Weight in working order, drivers.  Wheel base of engine, rigid	40,000 lbs.
total	40,000 lbs.
engine, rigid	20 ft.

Length over all, engine
Width " 7 ft. 6 in.
Height " "
Diameter of driving wheels 30 in.
Material of driving wheel centres
Diameter and length of driving journals 4 in. x 6 in.
Diameter of cylinders
Stroke of cylinders io in.
Type of boiler
Working pressure of boiler
Number of tubes87
Diameter of tubes in.
Length of tubes 6 ft.
Injectors Locomotion type
Safety valves
BrakesSteam
Tank capacity550 gallons.
Tank capacity
The Canadian Locomotive Co. is building

a six-wheel saddle truck locomotive for the Hamilton Steel and Iron Co. Following are the general dimensions: . . 01 :-

trauge	411.07 111.
Fuel used	Bituminous coal
Weight in working order, drivers	70,000 lbs.
tota'	70,000 lbs.
Wheel base of engine, rigid	o ft. 6 in.
Wheel base of engine, rigid total	o ft. 6 in.
Length over all, engine	28 ft. o in.
Width " "	
Width " "	11 ft. 4 in.
Heating surface, firebox	61.0 sq. ft.
" tubes	
" total	672.0 sq. ft.
Diameter of driving wheels	
Material " centres	Castiron
Diameter and langth of driving journa	le 61 in v 8 in
Diameter and length of driving journa	ls 6-kin.x8in.
Diameter and length of driving journa	ls 6-kin.x8in.
Diameter and length of driving journa	ls 6-kin.x8in.
Diameter and length of driving journa of cylinders Stroke of Type of boiler	ls6½ in x8 in. 14 in. 22 in. Radial stay
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler	ls. 6½ in x 8 in. 14 in. 22 in. Radial stay 180 lbs.
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler	ls. 6½ in x 8 in. 14 in. 22 in. Radial stay 180 lbs.
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler	ls. 6½ in x 8 in. 14 in. 22 in. Radial stay 180 lbs.
Diameter and length of driving journa of cylinders Type of boiler Working pressure of boiler Number of tubes Diameter Length "	ls. 6½ in. x 8 in.
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler Number of tubes. Diameter Length Injectors.	s 6½ in x 8 in 14 in 22 in   Radial stay 180 lbs. 124   22 in   9 ft. 7½ in   Locomotive type
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler Number of tubes. Diameter Length Injectors. Safety valves	ls. 6½ in. x 8 in. 14 in. 22 in. Radial stay 180 lbs. 124 2 in. 9 ft. 7½ in. Locomotive type
Diameter and length of driving journa of cylinders	s 6½ in x 8 in
Diameter and length of driving journa of cylinders Stroke of Type of boiler Working pressure of boiler Number of tubes. Diameter Length Injectors. Safety valves	s 6½ in x 8 in

The Intercolonial Ry. has completed at its Moncton shops three 10-wheel passenger locomotives, and has another of a similar type under construction there. Following are the general dimensions:

114 201 lbs.

Waisht on drivers

Weight off dilvers
" on truck wheels
" total
Wheel base, total of engine 24 ft. 4 in.
driving wheels 14 ft. 1 in.
" total engine and tender 50 ft. 9¾ in.
Length over all, total engine and tender 60 ft. 10 5-16 in.
Driving wheels, diameter 72 in.
Cylinders, diameter and stroke
Working steam pressure 200 lbs.
Firebox, length
" width 40% in.
Tubes, materialcharcoal iron
" number
" diameter in.
Heating surface tubes
Grate area
Weight of tender loaded
V

Water capacity 6,000 gals.
Coal "10 tons The Central Ontario Ry. has ordered an eight-wheel passenger locomotive from the Canadian Locomotive Co. Following are the general dimensions:-

hese locomotives are now in	the general dimensions.—
nadian Division. The gen-	Gauge 4 ft. 81/2 in.
	Fuel used Dituminous coai
re:	Weight in working order, drivers
	" total
eel centre56 in.	Wheel base of engine, rigid 9 ft. o in.
ler681 in.	total
ne190,000 lbs.	" and tender
	Length over all, engine and tender
	Width " " 9 tt. 11 in.
210 lbs.	Height " 13 ft, 17 in.
96 ins.	Heating surface, firebox
	Heating surface, firebox 150.0 sq. ft. tubes 1377-2 total 1527-2 "
	" total
	Diameter of driving wheels
s3,040,8 sq. ft.	Material of driving wheels, centres
0x148,05 sq. ft.	Diameter and length of driving journals 8 in. x 8½ in.
flues28.27 sq. ft.	of cylinders 18 in. Stroke 24 in. Type of boiler extension wagon top Working pressure of boiler 180 lbs.
	Stroke 24 III.
50.3 sq. ft.	Type of boiler extension wagon top
Piston	Working pressure of boiler
3,300 tons	Number of tubes
Locomotive Co. is building	Diameter " 2 in.
notive for the Johnsons Co.,	l ength of " 11 ft. 9½ in. Brakes
	Weight of tender, loaded
Que. The following are the	Capacity of tank
ons:	Style of tank
. f. c :	Coal capacity
3 ft. 6 in	Style of truck centre bearing
rder, driversBituminous	Diameter of wheel
" total	Kind of wheel wrought iron centres, steel tires
rigid	Diameter and length of journal
total	Brake beamsteel
ютат20 п.	Diane over

#### Victoria Rolling Stock Co. of Ontario, Ltd.

The directors' report for the year ended February 15, says:—"Towards the close of the Company's year the directors completed arrangements for a lease, against which bonds will be issued to the amount of \$2,400,000. and it was considered advisable, inasmuch as a considerable portion of the Company's bonds are held in Great Britain, to make part of the issue in sterling. The bonds are therefore being issued, \$1,440,000 in currency and £197,200 in sterling, bearing 4% interest, and while the rate of interest for this class of security is rather higher than for some time past, the directors have thought it best to issue the bonds on the above basis and to sell them at a discount rather than issue the bonds at a higher rate. Up to date the Company has sold of these bonds \$223,000; the discount and commission on same, \$16,100.04, have been written off in the accounts for the year. The full amount of this account might properly have been carried over to next year, as no profit on this lease has been taken into account this year, but the directors thought it well to write off the whole amount. During the year outstanding bonds against leases have been reduced by \$694,500, and the final payments under the following leases have matured and were duly met by the respective railway companies and conveyances of the rolling stock included in the leases duly exeto the C.P.R. Co. Lease Sept. 27, 1893, to the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. Lease Feb. 6, 1894, to the Duluth, South Shore & Atlantic Ry. Co. All other payments maturing during the year have been promptly met. The profit on the year's business, after charging up directors' fees, ex pense account and the discount and commission on bonds sold, is \$18,775.23; out of which a dividend of 12% per annum on the paid-up capital stock, amounting to \$14,400, has been paid, leaving \$4,375.23 carried forward to profit and loss account, which now stands at \$98,604.72.

ASSETS.		
Obligations on leases		15
series "S" lease	699,290	00
interest	136,751	
	\$2,258,881	79
LIADILITIES		_

LIABILITIES.	
Capital stock subscribed \$600,000 00	
do. paid up \$ 120,00	00 00
Debentures outstanding	ю оо
Interest accrued on same 20,27	7 07
Debentures sold and outstanding against series "S" lease	
Advances against debentures 350,00	00 00
Balance at credit of profit and loss 98,60	4 72
\$2,258,88	1 79
PROFIT AND LOSS YEAR ENDED FEB. 15, 10	04.

and advances	86,621 14
sold series "S"	16,100 04
Expense account	1,436 31
Directors' fees last year	1,300 00
Dividend account	14,400 00
Balance carried forward	98,604 72
	\$218,462 21
Balance at credit of profit and loss account,	94,229 49

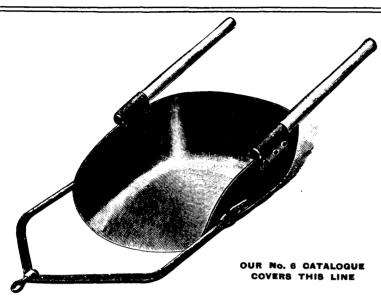
Interest neid and accrued on debentures

Balance at credit of profit and loss account, Feb. 15, 1903	<b>=</b>	94,229	<u>-</u> 49
pany		124,232	72
	\$	218,462	31
	_		_

MEMORANDUM RE ROLLING STOCK. Original cost of Rolling Stock held under \$1,441,888 73

Total amount of the Company's debentures outstanding .....\$1,447,000 00

## SCRAPERS



A Full Range of Wheel and Drag Scrapers, Railroad and Rooter Ploughs, etc., CARRIED IN STOCK

MUSSEN

Railway, Mining and Contractors' Supplies

OFFICES-299 St. James Street WAREHOUSES-763-765 Craig Street

MONTREAL.

## TORONTO BOLT AND FORGING CO.

Manufacturers of

## BOLTS AND NUTS

OF ALL KINDS, INCLUDING



Track Bolts **Track Spikes** Log Screws **Boiler** and **Bridge Rivets** 



TORONTO-

= CANADA

### C.P.R. LANDS.

THE CANADIAN PACIFIC RAILWAY COMPANY have 12,000,000 acres of choice farming lands for sale in Manitoba, Assiniboia, Saskatchewan and Alberta. Manitoba lands and Assiniboia lands east of third meridian, \$4.00 to \$10.00 per acre according to quality and location. Lands in South-Western Assiniboia and Southern Alberta, \$3.50 to \$8.00 per acre. Ranchings lands generally \$3.50 to \$4.00 per acre. Northern Alberta and Saskatchewan lands generally \$6.00 to \$8.00 per acre. Maps showing the lands in detail will be sent free on application.

TERMS OF PAYMENT.

application.

TERMS OF PAYMENT.

An actual settler may purchase 640 acres, or less, on the 10 payment plan, by which the aggregate amount of principal and interest is divided into a cash instalment to be paid at the time of purchase and nine equal deferred instalments annually thereafter, as follows:

160 acres at \$4.00 per acre, 1st instalment \$95.85 and 9 equal instalments of \$80.

160 acres at \$4.50 per acre, 1st instalment \$107.85 and 9 equal instalments of \$90.

160 acres at \$5.00 per acre, 1st instalment \$119.85 and 9 equal instalments of \$100.

160 acres at \$5.00 per acre, 1st instalment \$131.80, and 9 equal instalments of \$100.

160 acres at \$5.50 per acre, 1st instalment \$143.80, and 9 equal instalments of \$100.

160 acres at \$6.50 per acre, 1st instalment \$155.86 and 9 equal instalments of \$130.00.

160 acres at \$7.00 per acre, 1st instalment \$157.80 and 9 equal instalments of \$130.00.

160 acres at \$6.00 per acre, 1st instalment \$157.80 and 9 equal instalments of \$100.00.

Purchasers who do not undertake to go into residence on the land are required to pay one sixth of the purchase money down, balance in five equal annual instalments with interest at the rate of 6 per cent, per annum.

DIBCOUNT FOR CASH.

If and is paid for in full at time of purchase.

DISCOUNT FOR CASH.

If land is paid for in full at time of purchase, a reduction from price will be allowed equal to ten per cent. on five-sixths of the purchase money.

Interest at six per cent. will be charged on overdue instalments.

F. T. GRIFFIN.

Land Commissioner C.P.R. Co., Winnipeg.

CANADA NORTH-WEST LAND OP This Company has 800,000 acres of selected lands in Manitoba and Assiniboia which offer excellent opportunities to settlers and investors who desire to secy 2 good lands in well settled districts. These lands are on sale at the Company's Office at Winnipeg, and at the various land agencies of the Canadian Pacific Railway Company.



The Ticket Agent and General Public are reminded that all tickets reading over this line. Chief the line of the li this line, Chicago to as far South DuQuoin and all other points south of Dur Quoin, are honored at option of passenger

#### via ST. LOUIS.

Send your friends where a diversified route and to visit World's Fair is permissible without extra charge and inconvenience. This applies in either direction.

On Wednesday, via New Orleans, Through Tourist Sleeper to California. On Wednesday, via Omaha, Through Tourist Sleeper to California.

Homeseekers' rates twice a month to certain points
 at reduced rates. The Eight Track Route to
 Louis Fair. Five Stations to start from in Chicago.
 Ask your agent about it or write.

G. B. WYLLIE,

Canadian Passenger Agent. 210 ELLICOTT SQUARE, BUFFALO, N.Y. 

W. H. C. Mussen & Co., railway, miners and contractors' supplies, Montreal, have removed their offices to and St., removed their offices to 299 St. James St., retaining 762 to 767 Con. taining 763 to 765 Craig St. as warehouses,

The directors and officers were re-elected for the current year as follows; their addresses being Toronto, unless otherwise stated:— President, W. Hendrie, Hamilton, Ont.; Vice-President, W. Hendrie, Hamilton, Ont.; Vice-President, W. Hendrie, Hamilton, Olivi, President, E. B. Osler; Managing Director, H. C. Hammond; other directors, T. G. Brough, A. B. Lee. W. D. Matthews, H. Smith, D. R. Wilkie; Secretary, R. A.

## C.P.R. Earnings, Expenses, Etc.

Gross earnings, working expenses, net profits, increases or decreases over 1902-03, from July 1, 1903-

Ra- ·			Increase or
J'ly sarnings.		Net Profits.	Decrease.
J'ly \$3,997,343.75 Sept. 3,997	\$2,678,816,62	\$1,318,527.12	\$142,815.86+
Sept. 3.937.001.72	2,642,051.24	1,434,102.50	
Uct 973/1001.72	2.724 725 01	1,202,265.81	208,488.69 -
1104	2.824 226 87	1,654,027.01	37.892.38+
Dec 4,142,909.47 Jan.,2,806	2,664,928.29	1,477,981.18	80,259.06
Peb. 2.565,599.34	2,683,670.13	1,581,145.26	91,296.58 -
Peb. 2.541.862.15	2,538,947.31	357.652.03 82,540.81	559,118.74 — 660,199,88 —
Mar. 3, 532, 186.81	2,459,321,34	850,854.28	407,710.18
	2,001,332.53	050,054.20	407,710.10

\$33,877,136.25 \$23,918,040.25 \$9,959,096.00 \$1,755,163.04-+Increase. - Decrease.

Therease. - Decrease.

DULUTH, SOUTH SHORE AND ATLANTIC RV.—Gross earnings for Reb., \$171.758.43; net earnings, \$30.008.23, 1903. Net earnings for eight months ended Feb. 20, 348.09, 96 against \$654.568.74 for the same period 1902-\$26, Approximate earnings for Mar., \$205.043, against \$33 for Mar., 1903.

MINERAL D. MARCH ST. ADDRAYIMATE EARNINGS for Mar.,

MINERAL RANGE RY.—Approximate earnings for Mar., 48,801, against \$49,602 for Mar., 1903.

MINERAL RANGE RY.—Approximate earnings for Mar., 1903.

Minneapolis, St. Paul and Sault Ste. Marie \$103.156. St. Paul and Sault St. Paul St. Paul

## Canadian Pacific Railway Land Sales.

, Ac	res.	Am	ount,
July 1903-04	1902-03	1903-04	1902-03
July 267.647.32 Sept. 263.339.45	155-344-93	\$1,020.404.70	\$562,876.50 473,064.85
	130,723.83	1,271,529.81	473.064.85
Oct 60,441.12 Nov 15,950.07	145,535.83	268,757.99	542,811.11
Day 39,50.07	270,616.23	236,611.59	952.645.35
Dec · · · 22,563,95 lan · · 30,146.00 Pek · · 116,840 = 8	146,687.83		598,788.99
Peh -116.840 -8	577,382.61	125,676.00	1,683 289.45
Peb 116.840 78 Mar 14.729.69	102,581.29	386,649.88 73,428,94	428,611.21 749,235.13
Mar 14,729.69	183,554,82 184,139,22		782,968.76
			702,900.70
994.650	0 ( ((		• -

<sup>24,6</sup>50,44 1,<del>8</del>96,566.59 \$3,550,084,15 \$6,743,291,35

## Grand Trunk Ry. Earnings, Expenses, &c.

The following statement of earnings, supplied from G.T. Western, and the Detroit, Grand Haven & Milwaukee Rys.

lan .	1904,	1903.	Increase.	Decrease.
Feb Mar	\$2.253.578	\$2,634,090		\$380,822
٠٠٠	1,649,525 2,649,779	2,432,661 2,967,408		783.136 317,629
The follow	\$6,552,682	\$8,034,269		\$1,481,587

Ring., office:

GRAND TRUNK RY. CO. Revenue for Feb.:

Gross 1904.	1903. In	crease	Decrease.
Gross receipts . £260,900 Working expenses 285,700 Net professor	£409,200 316,500		£148,300 30,800
Net profit (Dr.) £24,800 Aggregate from Jan. 1 to			£117.500
stegate from Jan. 1 to	Feb. 29:		

Working expenses	1904.	1903.	Increase.	Decrease
orking expenses	616,200	£837.500		£221,300
Net	002,700	636,000	• • • • •	33,300
Net profit	£13,500	£201,500		£188,000

Ran GRAND TRUNK WESTERN RY. CO.

Gross receipts Working expises	1904. £62,200 68,900	1903. £70,800 70,600	Increase.	Decrease £8,600 1,700
Net profit (Dr.) Aggregate from				£6,900
Gross receipts Working expenses	Jan. 1 to 1904.	Feb. 29: 1903,	Increase.	Decrease
Working expenses	£145,700	£164,200		£18,500
Net profit (Dr.	10,5	- 55,		/,200

DETROIT, GRAND HAVEN & MILWAUKEE RY, CO. Revenue for Feb .:

	1904.	1903. li	icrease.	Decrease.
Gross receipts Working expenses	£15,800 16,800	£19,700	2,100	£3,900
Net profit (Dr.)	£1,000	£5,000		£6,000
Aggregate from	an. 1 to	Feb. 29:		
Gross receipts Working expenses	£39,900 33,400	1903. Ir £39,200 29,400		Decrease.

Net profit ... £6,500 £9,800 ... £3,300 There were 25 working days in 1904 compared with 24 working days in 1903.

TRAFFIC RECEIPTS OF THE SYSTEM.

Aggregate from Jan. 1 to Mar. 31:

• • •	1904.	1903.	Increase.	Decrease.
Grand Trunk &	1,047,854	£1,327,811		£279.957
G. T. Western	244,087			18,231
D G. H. & M.	54,5∞	60,747		6,247
Total	21,346,441	£1,650,876		£304.435

#### TRANSPORTATION APPOINTMENTS.

Algoma Central and Hudson Bay Ry .-W. B. Rosevear, who was granted extended leave of absence, has not returned, and his position has not been filled. The duties of General Traffic Manager, heretofore discharged by W. B. Rosevear, are being discharged by T. J. Kennedy, with the title of General Superintendent and Traffic Manager.

W. C. Barr, Superintendent of Steamship Lines, will have charge of the Company's steamers for the season.

Bay of Quinte Ry., Thousand Islands Ry., Oshawa Ry., and Deseronto Navigation Co.-G. W. Wright has been appointed Auditor. Office, Deseronto, Ont. Heretofore the duties of Auditor have been combined with those of the Secretary-Treasurer, which position is held by C. B. Millener.

Board of Railway Commissioners for Canada.—J. E. Duval, heretofore Car Service Agent Canada Atlantic Ry., has been appointed to the staff of the Board as Chief Inspector. He will investigate railway accidents, and will examine the physical condition of railways as to protective appliances, car distribution, etc.

Canada Atlantic Ry .- J. E. Duval, Car Service Agent, has resigned, effective May 1, to enter the service of the Board of Railway Commissioners. A successor has not been appointed.

Canadian Pacific Railway Company .-E. H. McHenry, Chief Engineer, has resigned, one press report stating that it was on account of ill health, and another that it was for the purpose of joining the staff of the G. T. Pacific Ry. Both of these statements lack confirmation.

Press reports state that W. F. Stevenson has been appointed Eastern Freight Agent, and F. W. Dudley Eastern Passenger Agent, at New York.

Press reports state that Capt. J. T. Walsh, R.N.R., formerly Superintendent of the C.P.R. Atlantic steamship service at Liverpool, will act as Marine Superintendent for the Company at Montreal for the current navigation season, succeeding Capt. C. Troop

W. N. Dietrich has been appointed Electrical Engineer, succeeding C. H. Hines resigned. The position of Electrical Engineer was a new one created in Nov., 1903. He reports to the Superintendent of Motive Power, Eastern lines, when on lines east of Fort William, and to the Assistant to 2nd Vice-President when on lines west of Fort William. He has general supervision over all electrical matters, eral supervision over an electrical matter, including power and lighting circuits, generators, motors, arc and incandescent lamps, and other electric machinery and apparatus as directed. He will prepare standard and special plans and estimates as required, and it will be his duty to supervise the construction, operation and maintenance of electric installations and circuits in order to insure compliance with plans, rules and specifications pertaining to same. In the execution of new work, general and special repairs and maintenance of electric plants, divisional employes will act under his instructions as directed and limited by the general superintendent of their respective divisions.

T. W. Dow, General Air Brake Inspector, has resigned to enter the service of the Erie Rd. John Corbett has been appointed General Foreign Freight Agent, in charge of rail and steamship foreign freight traffic via Atlantic seaboard. Office, Board of Trade Building,

Montreal. A. E. Cook has been appointed Export Freight Agent, in charge of export freight traffic via Atlantic seaboard. Office, Board of Trade Building, Montreal.

W. T. Marlow has been appointed Import Freight Agent in charge of import freight traffic via Atlantic seaboard. Office, Board of Trade Building, Montreal.

E. N. Todd has been appointed Assistant

Export and Import Freight Agent in special charge of traffic Ontario division lines west of Smith's Falls. Office, Union Station, Toronto.

L. R. Johnson and G. Hall, formerly Assistant Superintendents Rolling Stock, are now designated Assistant Superintendents of Motive Power Eastern lines. Offices, Montreal.

D. T. Kyle, heretofore chief clerk to the Master Mechanic Eastern Division at Montreal, has been appointed chief clerk to the Superintendent of Motive Power lines east of Fort William.

V. A. Harshaw has been appointed Trainmaster at London, Ont., succeeding D. R. Bell, who has been appointed passenger train conductor on the Toronto and Owen Sound

C. B. Brown, resident engineer lines west and north of Toronto, Ontario Division, has had his headquarters removed from London,

Ont., to Toronto.

The Central Division, which heretofore terminated at Moose Jaw, Assa., has been extended on the main line to Swift Current, Assa., 112.3 miles further. The Swift Current terminals remain attached to the Western Division. The branch from North Portal to Pasqua, Assa., 160.3 miles, has also been added to the Central Division. This division has been re-divided into four districts, instead of five as heretofore, Souris and Regina ceasing to be division headquarters. arrangement is as follows:

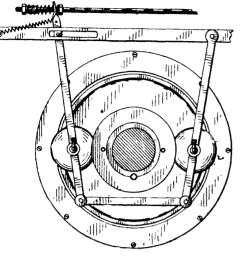
District 1—Fort William, Ignace and Rat Portage sections; Lac du Bonnet branch. Headquarters, Fort William. A. Price remains as Superintendent.

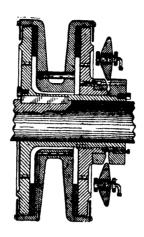
District 2—Winnipeg terminals; Brandon, LaRiviere, Napinka and Souris sections; Emerson, Gretna, Mowbray, Lyleton, Winnipeg Beach, Teulon, Carman and Brookdale branches. Headquarters, Winnipeg. J. T. Arundel, heretofore Superintendent old district 2, has been appointed Superintendent. O. O. Winter has been appointed Assistant Superintendent in direct charge Winnipeg terminals.

District 3-Broadview, Estevan, Minnedosa and Yorkton sections; Arcola, Lenore, Miniota, Pheasant Hills, Rapid City, Sheho and ota, Pheasant Hills, Kapiu City, Sneno and Russell branches, including Brandon, Broad-view, Souris and Napinka terminals. Head-quarters, Brandon. F. Dillinger, heretofore Superintendent old district 5 at Regina, has been appointed Superintendent; J. J. Scully, heretofore chief clerk to the Second Vice-President, has been appointed Assistant Superintendent in direct charge of transportation.

District 4-Moose Jaw, Swift Current and Portal sections; Prince Albert branch, including Estevan terminal, but excluding Swift Current terminal. Headquarters, Moose Jaw.

## MOMENTUM BRAKE COMPANY



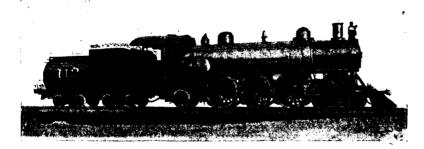


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STUART B. PLAYFAIR, Manager, 28 Wellington Street West TORONTO, ONTARIO.

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## \_OCOMOTIVES=

Mine, Furnace and Industrial Locomotives. Electric Locomotives with Westinghouse Motors and Electric Trucks.

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Vacuum Oils Reduce Friction, thus saving Coal and preserving Machinery.

VACUUM 600 W. CYLINDER VACUUM No. 1 MARINE EN-GINE (better than Lard) **ELDORADO ENGINE RENOWN ENGINE** ARCTIC CUP GREASE MINERAL SEAL OIL 300 Pire Test, for Illuminating Purposes

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REFINED ALE. EXTRA STOUT AND REDWOOD

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Boilers, Flues, Furnaces, Heaters, Steam and Hot and Cold Water Pipes.

OOLD STORAGE INSULATION The Highest Non-Conductor in the World.

AWARDED THE GOLD MEDAL AT PAN-AMERICAN EXPOSITION, AND GRAND PRIZE AT PARIS

MICA COVERING is a Canadian invention, and a purely Canadian industry, as all the mica is procured from Canadian mines, and the material used in the manufacture of the Covering is made in Canada.

Send for particulars to the Mica Boiler Covering Co., Limited 86-92 Ann Street, Montreal, Can.

J. Brownlee, heretofore Superintendent old district 4 at Brandon, has been appointed Superintendent.

The dispatching staffs on the Central Division have been consolidated, the Rat Portage and Fort William offices being put together under the supervisions of day and night chief dispatchers, and the Winnipeg and Brandon officer. offices are also under similar supervision.
The dispatching offices at Rat Portage, Ont., Souris, Man., and Regina, Assa., have been abolished. A. Hatton, heretofore Chief Train Dispatcher, old district 1, has been appointed Chief Dispatcher, district 1; office ort William, Ont. J. D. Barnes, heretofore Chief Train Dispatcher old district 2, has been appointed Chief Dispatcher, and W. J. Uren, heretofore Chief Train Dispatcher, Rat Posts and Chief Dispatcher of the Posts and Chief Train Dispatcher, Rat Posts and Chief Train Dispatcher of Night Portage, Ont., has been appointed Night Chief Dispatcher, district 2; office Winnipeg.
R. Peard, heretofore Superintendent of old
district. district 3 at Souris, Man., has been appointed Day Chief Dispatcher at Brandon, Man. C. D. Fisher, heretofore Chief Train Dispatcher, old district 4, has been appointed Night Chief Dispatcher at Brandon. E. L. Chudleigh, heretofore Chief Train Dispatcher, old district. trict 1. Western Division, has been appointed Chief Dispatcher, district 4; office, Moosejaw, Assa.

A. Millison, heretofore locomotive foreman Moose Jaw, Assa., has been appointed general foreman at Fort William, Ont.

F. T. Patterson, heretofore locomotive foreman at Kamloops, B.C., has been appointed acting locomotive foreman at Rat Portage,

J. Manson, formerly Superintendent at Toronto, has been appointed chief clerk to the Second Vice-President at Winnipeg.

W. Pitts, heretofore locomotive foreman at Rat Portage, Ont., has been appointed acting

oct Portage, Ont., has been appointed acting locomotive foreman at Moose Jaw, Assa.

A. Belbeck, heretofore Trainmaster at Trainmaster, Man., has been appointed Assa.

Assa.

The Western Division, the eastern terminus of the Western Division, the eastern to which has been changed from Moose Jaw to Swift Current, Assa., has been divided into two districts instead of three as formerly. The new districts instead or times are as follows:

Districts are are as follows:
District 1—Medicine Hat, Calgary and terminal), Macleod and Edmonton branches;
J. Nihland Calgary. J. Niblock, Superintendent. Office, Calgary. District 2—Lethbridge, Cranbrook and Sirdar season. dar sections (not including Dunmore Jet.) and North Corp. Superin-North Star branch; J. G. Taylor, Superintendent tendent. Office, Cranbrook, B.C.

R. Anthony, heretofore general foreman at Fort William, Ont., has been appointed general formula R.C. eral foreman at Revelstoke, B.C.

J. Scott, heretofore general foreman at RJ. Scott, heretofore general locality Revelstoke, B.C., has been appointed locality B.C. motive foreman at Kamloops, B.C.

C.P.R. Transfer Ferry Co.—J. Dubrule, ir., heretofore Assistant Manager, has been appointed to the control of t appointed Manager, succeeding G. T. Howard, deceased. Office, Prescott, Ont.

Rrie Rd.—T. W. Dow, heretofore General pointed General Air Brake Inspector C.P.R., has been applied General Air Brake Inspector Erie Office, Meadville, Pa.

T. H. Hopkirk, heretofore chief clerk in Stock C. P. R., has been appointed chief clerk to the Mark. to the Mechanical Superintendent Eric Rd. at Meadville, Pa.

Grand Trunk Ry.—F. C. Salter has been appointed European Traffic Agent. Temporary office ary office, 22 Water st., Liverpool, Eng.

Intercolonial Ry.—G. R. Joughins, heretofore Mechanical Superintendent Southern California Ca California Ry. and the Atchison, Topeka and Santa Fe Coast lines at Los Angeles, has been appointed Superintendent of Motive been appointed Superintendent of Motive ower I.C.R., and took charge of the Locomotive and Car Departments on April 21. From 1896 to the end of 1901 Mr. Joughins was Mechanical Superintendent of the I.C.R.

J. E. A. Robillard, formerly Superintendent C.P.R. at Montreal, has been appointed Travelling Freight and Passenger Agent I.C.R., succeeding O. Chevrier, deceased. Office, Montreal

Kettle Valley Lines.—H. W. Warrington is Superintendent and G. W. Fairweather is General Freight and Passenger Agent. Offices, Republic, Wash.

Lindsay, Bobcaygeon and Pontypool Ry.

—A. H. N. Bruce, heretofore Assistant Engineer, has been appointed Engineer in Charge.

Montreal and Lake Superior Line.-W. Askin, heretofore Assistant Manager Northwest Transportation Co. (Northern Navigation Co.) at Sarnia, Ont., has been appointed Commercial Agent and Superintendent M. & L.S. line. Office, Montreal.

Jas. McLerie, heretofore Contracting Freight Agent C.P.R., Hamilton, Ont., has been appointed Northwest Agent M. and L. S. line. Office, Winnipeg.

Northern Navigation Co.-The circular appointing C. H. Nicholson, Traffic Manager, with office at Sarnia, Ont., states that all matters pertaining to passenger, freight and baggage claims will be dealt with by him.

H. A. Young, heretofore purser steamer United Empire, has been appointed Travelling Passenger and Freight Agent. Office, Sarnia, Ont.

Ino. Bell, heretofore freight foreman Canadian Northern Ry. at Port Arthur, and formerly assistant freight foreman C.P.R. Fort William, has been appointed agent N.N. Co. at Port Arthur and Fort William. Office, Port Arthur, Ont.

Pere Marquette Rd .- T. Marshall, heretofore Assistant General Freight Agent of the Lake Erie and Detroit River Ry., has been appointed General Agent P.M. Rd., at Walkerton, Ont., in charge of freight traffic in Canada.

Quebec Ry., Light and Power Co.-H. B. Smith, heretofore Inspector of the Company's railway line, has been appointed General Inspector, and is succeeded as Inspector by A. Cormier.

Quebec Southern Ry .- G. C. Dessaulles has issued a circular stating that having been appointed Receiver of the Quebec Southern Ry, and the South Shore Ry, by the Exchequer Court of Canada, he has taken possession of the property of the companies and will operate the same under the authority of the Court. Arrangements are being made for the re-opening of the roads, and resumption of interchange of traffic with connecting lines within two or three days. Hereafter all settlements for traffic or other balances will be made by the Receiver or under his instructions.

He has also issued a circular announcing the following appointments: M. M. Thomson, Auditor; C. S. Papps, Car Accountant. Offi-ces, 26 St. Sacrament St., Montreal. Correspondence relating to traffic should be addressed to the General Manager.

C. B. Hibbard, General Manager, has issued a circular announcing the following appointments: E. C. Lalonde, Superintendent Shore Division. Office, Sorel, Que. R. A. Trudeau, Superintendent Southern Division. Office, St. Hyacinthe, Que. F. D. Anthony, Chief Engineer. Office, Sorel, Que. G. H. Taylor, Mechanical Foreman. Office, Sorel, Que.

Reid Newfoundland Co.-A. S. Busby, heretofore in the I.C.R. service at Moncton, N.B., has been appointed secretary and chief clerk to the General Passenger Agent R.N. Co., H. A. Morine.

Sydney and Glace Bay Ry .- Press reports state that A. N. McLennan has been appointed Manager.

Turbine Steamship Co.-G. D. Ellis, heretofore Travelling Passenger Agent Northern Navigation Co., Sarnia, Ont., has been appointed Manager Turbine Steamship Co. Office, Hamilton.

White Pass and Yukon Route.-I. W. Dudley has been appointed city passenger and ticket agent at Dawson City, Yukon. Effective with the opening of navigation.

#### MAINLY ABOUT PEOPLE.

G. M. Bosworth, 4th Vice-President C.P.R., has been in Atlantic City, N.J., on account of ill-health.

N. Mills, President of the Port Huron and Sarnia Ferry Co., died at Marysville, Mich., recently, aged 81.

Sir Thos. Shaughnessy, President C.P.R., Lady and Miss Shaughnessy, have returned to Montreal after a trip to Europe.

H. J. Cambie, Consulting Engineer C.P.R., Vancouver, recently returned from a holiday to California and the Hawaiian Islands.

J. B. Hay, G.T.R. cattle agent at the west-n market, Toronto, was elected alderman ern market. for ward 5, Toronto, April 16, by 307 majority.

I.W. Leonard, ex-Assistant Manager C.P.R. Western Lines, and Mrs. Leonard have returned to Toronto from the Southern States.

A. McInnis, one of the contractors on the Halifax and Southwestern Ry., is seriously ill at the Victoria General Hospital, Halifax,

J. J. Long, a director of the Northern Navigation Co. of Ontario, who is on a European trip, was a visitor to the Vatican at Rome recently.

Hon. C. S. Hyman, M.P., has been appointed chairman of the House of Commons Committee on Railways, Canals and Telegraph lines.

W. M. Blaiklock, who died at Denver, Col., recently, was brother of M. S. Blaiklock, Superintendent Eastern Division G.T.R. at Montreal.

H. Swinford, General Agent Northern Pacific Ry. at Winnipeg, Man., and Mrs. Swinford, recently returned from a trip to New Orleans and Havana.

Mrs. M. H. Brown, wife of the General Freight Agent of the Ontario Division, C.P.R., at Toronto, has gone to Aiken, S.C., with her children for several weeks.

Melville Bertram, of the Bertram Engine Works, Toronto, was married, April 7, to Miss R. H. Cameron, daughter of L. K. Cameron, King's Printer for Ontario.

H. J. Beemer, who has been engaged in railway contracting work for many years in Canada, is leaving in May for Arizona, where he will engage in gold mining.

H. Calderwood, Manager Collingwood Shipbuilding Co., will be married during the summer to Miss Justina Harrison, of Toronto, who is now visiting in Germany.

B. Lambkin, son of J. B. Lambkin, Assistant General Passenger Agent I.C.R., Halifax, N.S., has gone to Japan to endeavor to enlist for service with the Japanese army.

Sir Wm. Van Horne, Chairman of the C.P.R. Board, returned from Cuba, where he had been on a visit of inspection with a number of his co-directors of the Cuba Company.

P. A. Peterson, C.E., ex-Chief Engineer of the C.P.R., and now in charge of surveys of the Guelph Junction Ry.'s extension to Goderich, is removing from Montreal to Goderich,

J. Charlton, M.P., President Tillsonburg, Lake Erie and Pacific Ry., returned to his

## DOMINION WIRE MF'G. Co.

HEAD OFFICE, MONTREAL BRANCH, TORONTO

IRON, STEEL, BRASS AND COPPER WIRE

BARB WIRE, PLAIN TWIST, PLAIN GALY'D WIRE

## PURE COPPER WIRE

Telegraph, Telephone, Trolley & Transmission Lines.

Wire Nails, Wood Screws, Bright Wire Goods, Cotter Pins Bright and Galvanized Fence Staples.

WRITE FOR CATALOGUE =

#### The HIRAM L. PIPER

12 St. Peter St.

MONTREAL.

## PIPER Switch Lamps



Require no Chimney

Consumption of Oil reduced by half

Wick regulat-ed from outside

Made of annealed iron, galvanized

Fittings copper and brass

**Brass Oil Tank** never leaks

post card will bring to you our No. 30 Cata-logue of Railway Signals and Supplies.

STORRS' "NEVER BREAK"

Mica Headlight Chimneys

Save 50 per cent. in cost of Chimneys alone.

Save Cleaning and Replating Reflectors





### DEPARTMENT OF AGRICULTURE AND **IMMIGRATION**

### MANITOBA

There are now daily arriving in this province numbers of young men from Eastern Canada and Great Britain who desire employment on Farms. Many of these are experienced farm hands and others are anxious to learn.

#### ALL SUCH ARE ADVISED

on arrival in Winnipeg to call upon the undersigned when all possible assistance will be given WITHOUT CHARGE in securing emp'oyment at farm work. A register is kept of farmers wanting men and of men wanting employment.
This is a GOVERNMENT AGENCY and no charge of any kind is made for its services.

J. J. GOLDEN,

Provincial Covernment Immigration Agent 617 MAIN ST., - - WINNIPEG

## The Direct Line

To New York, Philadelphia, Atlantic City, Baltimore, Washington and the South. The Grand Trunk Railway in connection with the

## LEHIGH VALLEY RAILROAD

Forms the Direct Line from Toronto, Hamilton, London and all points in Canada for the above cities.

ROUTE OF THE

## "Black Diamond Express"

(Handsomest train in the world.)

The Great double-track scenic highway, stone ballasted, protected by automatic electric block signals. Through Pullman Parlor and Sleeping Car Service. Dining Car Service à la carte. Everything first class. Call on Grand Trunk Ticket Agents for tickets and further information, or address

ROBT. S. LEWIS,

Canadian Passenger Agent, 33 Yonge Street, Toronto

CHAS. S. LEE. A. A. HEARD,

Ass't Gen. Pass. Ag't, New York. Gen. Pass. Ag't, New York.

G. R. CHESBROUGH, West'n Pass. Ag't, Buffalo, N.Y

## The Northern Electric and Manufacturing Co., Limited

MONTREAL

Contractors for and Dealers in

## Electrical **Apparatus**

Supplies

Experimental and Model Work, Fine Machinery, Special Tools, Patterns, Gear-Cutting, Special ties, Repairs, Etc.

ESTIMATES PROMPTLY FURNISHED.

home, Lynedoch, Ont., April 8, from Clifton bealth. N.Y., considerably improved in

Jas. A. Macdonell, railway contractor, Fer nie, B.C., was married at Christ Church Cathedral, Ottawa, April 12, to Miss M. of Toronto.

W. H. D. Miller, transportation officer of will be located in Ottawa during the remainder of the current session of the Dominion Parliament.

C. J. Smith, General Manager Richelieu and dinner Mavigation Co., was entertained at nada Atlantic Ry. service to take up his new duties at Montreal.

Miss Ethel Barnfield, daughter of B. Barnfield, Manager of the Canada Ry. News Co.'s restaurant, Bonaventure station, Montreal, Was married in Montreal April 14 to the Rev. Becan, of Mississippi.

F. J. Holloway, recently appointed C.P.R. roadmaster at Woodstock, Ont., was presently with an armchair and entertained at dinner by the local staff on the occasion of his removal from London, Ont.

Jas. Woolner was recently presented with an office desk, chair, and other articles by the business men of Preston, on resigning the position of G.T.R. agent there, to engage in manufacturing at Berlin, Ont.

J. W. Pyke, of Montreal, has been elected Co. (Ltd.), recently formed at Montreal, with ing lands north of Michel, B.C.

P. Frappier, formerly a painter at the to two years' imprisonment for tampering with pay lists with intention to defraud, and the stealing from the Company.

N.B. Wiles, C.P.R. agent at Fairville, charge of attempting to defraud the Company pay sheets, and of forging the pay sheets, and of forging the D. C. C. Clark to a pay check.

D. C. Coleman was recently presented with a Bay, Ont., on the occasion of his removal to Perintendent Central Division, C.P.R.

J. F. Lash, of the Bell Telephone Co., who Lash, in the Bell Telephone Co.'s offices, solicitor to the Canadian Northern Ry.

A. W. Horsey, chief draughtsman C.P.R. Glasgow, Scotland, and Chemnitz, Germany, superintending the construction of locomotives for the C.P.R., has returned to Montreal.

F. B. Polson, of the Polson Iron Works, Visiting the chief shipyards there with a view use in laying information respecting them for his Company's Toronto Works.

Z. Allard, wire superintendent of the C.P.R. Telegraph Department, Quebec, died there, house where he was boarding. He formerly which was burned out within the last three months.

D. B. Hanna, 3rd Vice-President Canadian Northern Ry., is a provisional director of the been incorporated in Ontario with a capital of a director of the Manufacturers' Life Insurve.

V. A. Harshaw, who has been appointed Trainmaster C.P.R. at London, Ont., entered

railway service in 1883, since which he has been consecutively: 1883 to 1885, sectionman; 1885 to 1889, brakeman; 1889 to 1895, freight conductor; 1895 to 1904, passenger conductor.

E. S. Bremner, heretofore C.P.R. Trainmaster at Moose Jaw, Assa., who is required as a witness at Regina in a case where a man named Wilcox is charged with stealing a mail package containing \$10,000, has disappeared, and the court officials were not able to serve the summons on him when his evidence was required.

Hon. S. N. Parent, Premier of Quebec, who has been mentioned as a probable chairman of the Commission for the construction of the projected National Transcontinental Ry. from Winnipeg to Quebec, recently stated that he was not a candidate for the office, but would not say whether he would accept or decline if he were offered the position.

J. F. Stevens, formerly Chief Engineer Great Northern Ry., U.S., and at one time engaged in engineering work on the C.P.R., and Duluth, South Shore and Atlantic Ry., has been promoted to the 2nd Vice-Presidency Chicago, Rock Island and Pacific Rd., of which Company he has been 4th Vice-President and Chief Engineer since Mar., 1903.

J. E. Duval, who has been appointed Chief Inspector for the Board of Railway Commissioners, was born in 1862, and entered railway service in 1876, with the G.T.R. at Detroit, Mich. In 1886 he joined the Canada Atlantic Ry. as agent at Coleau, Ont.; was subsequently appointed Superintendent of the Telegraph System and Chief Train Dispatcher; and from 1900 to April 31, 1904, he was Car Service Agent of the Company.

Geo. Dawson, of St. Catharines, Ont., of Dawson & Riley, contractors for the erection of the power plant for the Canadian Niagara Power Co., at Niagara Falls, Ont., died suddenly at Niagara Falls, April 21, while superintending the work. He had been associated with H. C. Symms, of Toronto, in carrying out a number of large contracts, including the M.C.R. cantilever bridge across the Niagara gorge, the Northern Pacific Junction Ry. and the Chignecto Marine Transport Ry.

John Corbett, who has been appointed General Foreign Freight Agent C.P.R., Montreal, was born in Lanarkshire, Scotland, July 19, 1863, and entered railway service in 1877 with the Caledonian Ry. Coming to Canada, he entered the service of the G.T.R. in 1882, since which his record has been: Nov., 1882, to Dec., 1883, audit department G.T.R., at Montreal; Dec., 1883, to May, 1885, in office of Blue Line, at Montreal; May, 1885, to Mar., 1904, in foreign freight department C.P.R., Montreal.

G. D. Ellis, who has been appointed Manager Turbine Steamship Co. at Hamilton, Ont., was born at Barrie, Ont., Dec. 1, 1867, and entered transportation service in 1882 with the Vickers Express Co., continuing with the Canadian Express Co. when it took over the Vickers business. He subsequently became connected with the North Shore Navigation Co., remaining with its successor, the Northern Navigation Co., latterly as Travelling Freight and Passenger Agent at Sarnia, until his present appointment.

A. W. Carpenter, Egham, Surrey, Eng., proprietor of the Charing Cross Bank, London, Eng., and the promoter in England of the New Canadian Co., which proposes to construct the Atlantic, Quebec and Western Ry., and to finance the Canadian Transit Co. (Ltd.), is a plaintiff in an action brought in the King's Bench Division, London, Eng., to secure the return of a promissory note for £1,000 given to H. Higgins in connection with some transactions in the stock of the Petroleum Oil Trust (Ltd.), Gaspe, Que., one of the companies of which he is a promoter.

W. G. Roche, who has been appointed Contracting Freight Agent Canadian Pacific Dispatch, Detroit, Mich., was born Nov. 3, 1877, at Montreal, and entered railway service May, 1894, since which he has been consecutively to May, 1895, office boy National Despatch Fast Freight Line, Detroit, Mich.; May, 1895, to May, 1899, billing clerk G.T.R. local freight office, Detroit; May, 1899, to Mar., 1900, voucher clerk National Despatch Line, Buffalo, N.Y.; Mar., 1900, to Sept., 1901, clerk local agents' office Pere Marquette Rd., Detroit; Sept., 1900, to Oct., 1902, chief voucher clerk General Freight Agents' office, same road; Oct., 1902, to April, 1904, claim investigator same road.

F. C. Salter, who has been appointed European Traffic Agent of the G.T.R. at Liverpool, Eng., was born Aug. 31, 1863, and entered railway service 1883 as telegraph operator and baggageman Northern Ry. of Canada, since which he has been consecutively freight and passenger clerk same road at Toronto; freight and passenger agent at Toronto; stenographer to general agent same road at Buffalo, N.Y.; relief freight and passenger agent same road; soliciting agent Commercial Express Line at Buffalo; New York State Agent same line same place; travelling freight agent Northern Pacific Ry. at Buffalo, and latterly general agent, freight department, same road at New York.

H. A. Young, who has been appointed Travelling Freight and Passenger Agent Northern Navigation Co. of Ontario, was born at Brooklyn, N.Y., Sept. 1, 1864, and was brought to Canada in 1866. He entered transportation service in 1883, since which his record has been: 1883, assistant clerk str. Chicora, Niagara Navigation Co.; 1884 and 1885, purser str. Celtic of Hamilton, Ont.; 1886, with a mercantile firm in U.S.; 1887 and 1888, purser str. Ocean of St. Catharines; 1889, clerk on Pacific Mail SS. Co.'s San Blas sailing from San Francisco to Panama; 1890, purser str. Cuba of Chicago; 1891, purser str. Ucta of St. Catharines; 1892 to 1903, purser str. United Empire, Northwest Transportation Co. (Northern Navigation Co.), Sarnia.

Jas. McLerie, who has been appointed Northwest Agent Montreal and Lake Superior Line at Winnipeg, was born at Kilbarchan, Renfrew, Scotland, Nov. 6, 1850, and entered railway service Mar., 1867, since which he has been consecutively to 1869, car number taker, Great Western Ry., Hamilton, Ont.; 1869 to 1872, yard clerk same road, London, Ont.; 1872 to 1873, clerk same road, Hamilton; 1873 to 1877, cashier same road, Ingersoll, Ont.; 1877 to 1878, agent same road, Stratford, Ont.; 1879 to 1880, agent same road, Tillsonburg, Ont.; 1880 to 1882, special freight agent Manitoba business with the Traffic Manager same road, Hamilton; 1882 to 1895, local freight agent G.T.R., Hamilton; 1895 to 1897, contracting freight agent, Toronto, Hamilton and Buffalo Ry. at Hamilton; 1897 to 1904, contracting agent C.P.R. at Hamilton.

G. P. Conard, writing the Official Equipment Register in reference to deaths among the members and attendants at the annual gatherings of the International Association of Car Accountants and Car Service Officers, says: "Among those who have in recent years regularly attended the gatherings of this Association, there have been none of the ladies more beloved than Mrs. W. H. Rosevear. Those of our number who were the guests of the Canadian railways in June, 1903, have good reason to remember her kindly and genial companionship on that occasion. We one and all wish to extend our heartfelt sympathy to our beloved President in his loss. Mrs. Rosevear's death was quite unexpected, following what at first appeared to be but a slight illness in the form of grippe. She leaves a record of a beautiful and useful

life, the influence of which will be felt for many years.

R. D. Pinneo, who has been appointed Assistant General Freight and Passenger Agent White Pass and Yukon Route at Skagway, Alaska, was born at Princeton, Iowa, Feb. 9, 1873; and entered railway service 1889, since which his record has been: Dec., 1889, to May, 1890, office boy and clerk Chicago, Milwaukee and St. Paul Rd. at Cordova, Ill.; May, 1890, to Sept., 1891, relieving agent same road; Sept., 1891, to June, 1894, in various capacities Northern Pacific Ry.; June, 1894, to July, 1895, out of railway service; July, 1895, to 1898, with the Great Northern July, 1895, to 1898, with the Great Northern Ry. in various capacities at Superior, West Superior and Duluth, Mich.; 1898 to Mar., 1900, Cashier and Paymaster Pacific Coast Steamship Co., Seattle, Wash.; Mar., 1900, to April, 1901, chief clerk traffic department White Pass and Yukon Route, Skagway, Alaska; April, 1891, to Jan., 1904, cashier and accountant River Division White Pass and Yukon Route at Wikishors, Yukon Pass and Yukon Route at Whitehorse, Yukon Territory.

Thos. Downie, who was recently appointed C.P.R. Trainmaster at Revelstoke, B.C., was killed by a snowslide in Albert Canyon, B.C., At the time of the accident he was April 11. engaged in superintending a gang of men who were clearing a snowslide which had blocked the line. Another sudden slide caught Mr. Downey, and K. Dodd, of the engineer's office at Revelstoke, and completely buried them. The bodies were subsequently recovered, and that of Mr. Downie was removed to Toronto, where the funeral took place April 21. Mr. Downie was born in Ireland April 30, 1859, and entered railway service in 1873, his record being: July, 1873, to April, 1885, apprentice operator and train dispatcher Northern Ry. of Canada at Toronto; Aug., 1885, to

May, 1886, train dispatcher C.P.R. successively at Chapleau, Heron Bay and Schrieber; May, 1886, to Nov. 30, 1903, Chief Train Dispatcher successively at Donald and Revelstoke, B.C.; Dec., 1903, appointed Trainmaster at Revelstoke. He was a brother of W. Downie, General Superintendent Atlantic Division, C.P.R.

#### Canadian Freight Association.

At the annual meeting in Montreal, April 7, the following officers and committees were elected for the current year: President, C. Howe, Michigan Central Rd., Buffalo, N.Y.; 1st Vice-President, W. R. MacInnes, C.P.R., Montreal; 2nd Vice-President, G. Collins, Central Ontario Ry., Trenton; Sec. Treas., J. Earls; Executive Committee, W. B. Bulling, C.P.R., Toronto; J. Pullen, G.T.R., Montreal; T. Henry, Richelieu and Ontario Navigation Co., Montreal.

Classification Committee-W. B. Bulling, S. Classification Committee—W. B. Bulling, S. P. Howard, F. J. Watson, C. E. Dewey, J. Hardwell, T. Marshall, C. Howe, C. A. Jaques, W. Phillips, E. R. Bremner.
Freight Inspection Committee—G. Collins, F. Conway, F. F. Backus, J. Hardwell, M. H. Brown, J. J. Mossman, J. P. Gay, W. N. Warbutten, A. Conway.

Warburton, A. Cowan.

Car Service Committee-J. B. Morford, M. C. Sturtevant, G. S. Cantlie, E. Fisher, J. F. Chapman, W. Woollatt, E. F. Seixas, G. Tombs.

The next regular general meeting will be held at Muskoka, Ont.

The Locomotive and Machine Co., of Montreal has removed its principal offices from the Street Railway Chambers to the Imperial Bank Building, Victoria Square, Montreal.

## houses of the Gutta Percha and Rubber Manufacturing Co. of Toronto, Front St. West, and of W. Jessop & Sons, steel merchants, Bay St. The Gutta Percha and Rubber Mfg. Co. in committee of the Co. in committee of the Co. ber Mfg. Co. is occupying temporary offices at 15 Wellington St. East. Its factories at

Fire Losses in Toronto.

The disastrous fire which ravaged a large

portion of Toronto's wholesale district on the

night of April 19-20, destroyed, among many

other buildings, the office buildings and ware

Parkdale are running night and day to replenish stock and keen up with orders. W. plenish stock and keep up with orders. W. Jessop & Sons have located temporarily at 38

## RICHELIEU AND ONTARIO NAVICATION COMPANY.

"Niagara to the Sea."

### MAIL LINE STEAMERS

(Palatial Steel Steamers)

Leave Toronto (from June 1st to 15th) Mondays, Wednesdays and Saturdays; thereafter daily, except Sunday, for Rochester, Kingston, Clayton, 1,000 Island Points and intermediate ports (running all the Rapids) to Montreal, where connection is made with steamers for Quebec, Murray Bay. Tadousae and points on the famous Saguenay River.

#### HAMILTON LINE

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#### ONLY ONE

station in the City of New York, the Grand Central Station of the New York Central.

Connections at Suspension Bridge with the Grand Trunk Railway.

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Canadian Passenger Agent, 69½ Yonge Street, 7

King St. East. The yards and stables of Hen-drie & Co., cartage agents to the G.T.R., were somewhat damaged. The To-ronto Ry. Co.'s line on Front St. West, which was welded into a continuous rail in 1903, has been so damaged that it will have to be taken up and relaid. The C.P.R. and G.T.R. telegraph lines east of the Union station were des-troyed, and the operating <sup>operating</sup> was temporarilydone in the case of the C.P.R. by an indirect route, and its commercial line, and in the Case of the G.-T. R. by the T. R. by the G. N. W. Telegraph Co., until repairs could be made. The Bell Telephone Co. was also a considerable sufferer by the fire. For some time the steamboats tied up at the wharves were in danger, but

those nearest the damage was done to them.

The Dominion Transport Co.'s stables on day to the extent of about \$6,000, the loss be-

To the extent of about The residence of J. J. Gartshore, dealer in railway supplies, etc., at North Toronto, was an acetylene gas machine April 22. Mr. Gartshore's offices, Front St. West, had a narrow escape from being burned in the fire on April 19-20.

The Canadian Northern Transfer Co., of which S. Crosthwaite is Manager, has taken over the cartage business of the Canadian Northern Ry. The headquarters of the Comcartage in Winnipeg. Heretofore the C.N.R. Shedden Forwarding Co., of which J. Wragsitated in an interview that a contract was made with the Northern Pacific Ry. to do its which period does not expire for another year. The Canadian Northern Ry. took over in 1901, and it is claimed that D. B. Hanna, Mr. Wraggit to understand that the arrangement would be continued. Mr. Hanna denies

W. H. C. Mackay, City Ticket Agent dent Canadian Ticket Agents' Association, is clation in the maritime provinces. He recent-the coupon ticket agents throughout that increase in the membership of the Association, in the maritime provinces. He recent-the coupon ticket agents throughout that increase in the membership of the Association,



THE DOMINION MARINE ASSOCIATION AT OTTAWA, MARCH 29.

From left to right, front row-1, E. A. Hall, L'Orignal; 2, R. O. Mackay, Hamilton; 3, H. C. Hammond, Toronto; 4, J. A. Cuttle, Montreal; 5, C. F. Gildersleeve, Kingston; 6, F. King, Secretary-Treasurer; 7, J. Gaskin, Kingston; 8, J. H. Hall, Ottawa; 9, T. Donnelly, Kingston. Second row-1, A. A. Wright, Toronto; 2, E. Callaghan, Hamilton; 3, W. E. Bishop, Hamilton; 4, D. J. McIntosh, St. Catharines; 5, L. L. Henderson, Kingston; 6, H. W. Richardson, Kingston; 7, G. P. Murphy, Ottawa; 8. D. Noonan, Kingston; 9, R. T. Holcomb, Ottawa. Back row-1, W. T. C. Boyd, Bobcaygeon; 2, G. F. Marsh, Huntsville; 3, H. H. Gildersleeve, Collingwood; 4, H. S. Folger, Kingston; 5, T. Conlon, Thorold; 6. J. B. Fairgrieve, Hamilton; 7, J. H. G. Hagarty, Toronto; 8. B. W. Folger, Toronto; 9, F. Elliott, Montreal.

#### Position of Station Name Signs

H. W. D. Armstrong, C. E., writes us: "Will you kindly tell your readers why the names of railway stations are marked on the buildings? Is it for the benefit of engine men so that they are placed in very large letters on the ends of the building away up on the roof? Is the name placed for the benefit of freight conductors who, sitting away up in the cupola of their van can see them at a height of 14 ft. above the track? Is it for the benefit of the town residents who want to find the place, or is it intended for the travelling public who might know where they are at? If the latter, kindly suggest in your valuable paper that the proper position for these names is on a level with the centre of passenger car windows, so that people on both sides of the car may see the place they are passing."

We entirely agree with Mr. Armstrong as

We entirely agree with Mr. Armstrong as to the proper position for station name signs in the front of stations facing the track, which should undoubtedly be so placed that they can be seen by passengers on both sides of the car. But in addition there should also be signs on both ends of stations so that persons in a car not opposite the sign on the front of the station can look out and ascertain the name without any difficulty. We shall be glad to hear from other readers on this subject.

The Canada Coals and Ry. Co., which operates the Joggins Coal Mine, and 12 miles of railway from Maccan station, on the Intercolonial Ry., to Joggins coal mine, has closed down its mine and railway. The Company proposes to go into liquidation.

Members of the Canadian Ticket Agents' Association who intend going to St. Louis, Mo., this month, are recommended to take U. S. currency with them.

#### Grain Elevator Notes.

The elevator at Midland, Ont., was destroyed by fire April 24.

The 150,000 bush, elevator at St. Boniface, Man., for the Crown Grain Co. is reported to be completed.

The Northern Elevator Co., it is reported, will erect a flour mill at Winnipeg during the year, with a capacity of 2,500 barrels a day.

The addition to the elevator at Portage la Prairie, Man., owned by Metcalfe and Son, containing 10,000 bush. of oats, burst as a result of the pressure of the grain April 7.

The F. B. Stevens Elevator Co.'s grain elevator at Fletcher, Ont., was burned to the ground recently. At the time of the fire 10,000 bush. of grain were in the elevator. The grain was insured, but the building was not.

A cargo of grain taken to Collingwood, Ont., by the str. Newmount at the close of navigation in 1903, was transferred to the elevator there the first week in April, the steamer not having been able to get alongside when she arrived.

J. Nehin, who has been appointed Manager of the new grain elevator by the Montreal Harbor Commission, is a native of Buffalo, N.Y., and commenced business life in 1866 as grain shoveller in a Buffalo elevator, being appointed weighman at the Exchange elevator in 1873; foreman of the International elevator in 1887; Superintendent of the Kellogg elevator in 1890, and Superintendent of the Export elevator in 1897. He resigned this position to take charge of the Montreal elevator.

The Keewatin Flour Mills Co. (Ltd.), recently incorporated under the Dominion Companies' Act with a capital of \$2,000,000 to establish a flour mill at Keewatin, Ont., proposes to erect in connection therewith a number of elevators throughout Manitoba and the Northwest Territories. The provisional

directors are: J. Mather, A. W. Fraser, R. M. Cox, G. Burn, Hon. E. H. Bronson, J. Coates, Ottawa; D. L. Mather, Rat Portage, Ont.; Hon. J. D. McGregor, New Glasgow, N.S.; R. L. Borden, M.P., Halifax.

The stock of grain at the elevators at Fort William and Port Arthur, Ont., at the end of March was reported to be 4,713,599 bush., against 6,191.064 in 1903, and 5,073,065 in 1902. At the C.P.R. elevators at Fort William there were 3,079,472 bush. of wheat, 30,-639 of oats and 15,008 of barley; at the Canadian Northern Ry. elevator at Port Arthur there were 1,244,998 bush. of wheat, 2,461 of oats, 20,015 of barley and 7,401 of flaxseed; and at King's cleaning elevator at Port Arthur there were 371,129 bush. of wheat, 47,-805 of oats, 364 of barley and 109,240 of flax-seed. The total stocks of wheat in store at the head of the lakes and at inland points was 10,579,000 bush., against 18,655,000 at the end of Mar., 1903.

-1904 -----

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\_

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TO LIVERPOOL LIVERPOOL

#### MONTREAL TO LIVERPOOL

			_		-ITENTOO	-
Dominion	-	-	-	-	Saturday,	May 7
Southwark	-	-	-	-	**	May 14
Canada -	-	-	-	-	" "	May 21
Vancouver	-	-	-	-	"	May 28
Kensington	-	-	-	-	6.6	June 4
Dominion	-	_	-	-	"	Tune 11
Southwark	-	-	-	-	6.6	June 18
Canada -	-	-	-	-	4.4	June 25

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#### SHIPPING MATTERS.

## Dominion Fisheries Protection Cruiser.

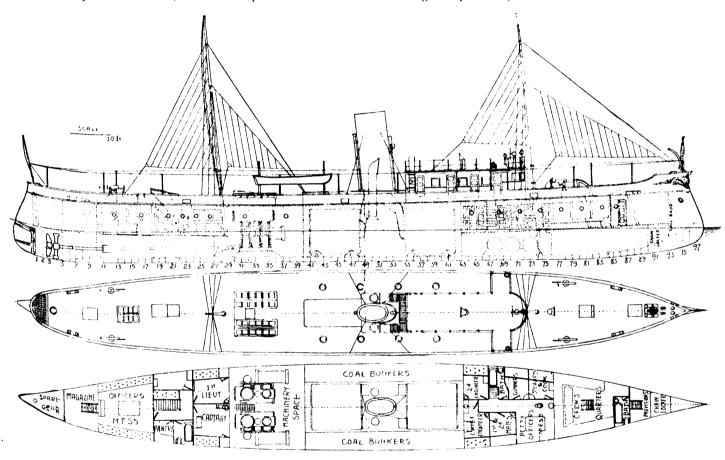
The keel of the fisheries protection cruiser for the Great Lakes, which is being built at the Polson Iron Works, Toronto, for the Dominion Government, has been laid on the blocks from which the lightship Anticosti was launched April 9. The hull is being built of steel and has the following dimensions:—

Length between perpendiculars	io ft.
Length on waterline Length on waterline Length on deck Length over all	6 ft.
Length on deck 10 Beam Depth	óo ft.
Beam Over all	76 ft.
Depth mod 1	22 ft
Draft, "lolded, top of keel to top of beam	14 ft.
Beath over all Depth, molded, top of keel to top of beam Draft Displacement, fresh water  514	8 ft.
Displacement, fresh water 514	tons.

The hull is divided into eight watertight compartments by seven bulkheads, thus mak-

cutting off at .75. There is a patent air pump on each engine 13" diameter x 11" stroke; also two vertical independent duplex pumps, with connections to bilge, etc., and an independent water service pump. Two steel boilers of the cylindrical or Scotch type will furnish steam. These boilers are each 11' 6"x12' 8" long, tested for a working steam pressure of 200 lbs. The total heating surface will be 3,470 sq. ft., and total grate surface 114 sq. There are three furnaces in each boiler, of the corrugated suspension type, each 35 diameter, inside of corrugations. Electric lights are to be used throughout, and the vessel will be equipped with a very powerful searchlight. The fuel capacity will be 75 tons of coal, in bunkers situated amidships. The new cruiser will have a speed of 16 knots an hour. Her armament will consist of four 1-pounders. The steamer was designed by

Trent Valley Nav. Co.; G. F. Marsh, Huntsville & Lake of Bays Nav. Co., Huntsville; L. Henderson, Montreal Transportation Co., Kingston; G. B. Greene, Upper Ottawa Improvement Co.; J. A. Cuttle, Montreal Transportation Co.; R. Q. Mackay, Hamilton & Fort William Nav. Co.; H. S. Folger, St. Lawrence River Steamboat Co.; A. A. Wright, Toronto; G. P. Murphy, Ottawa Transportation Co.; F. Elliott, Ottawa River Navigation Co.; W. E. Bishop, E. Callaghan, Hamilton Steamboat Co.; J. H. Hall, Ottawa Forwarding Co.; E. E. Hall, L'Orignal; D. J. McIntosh, Niagara, St. Catharines and Toronto Nav. Co.; R. T. Holcomb, str. Hebron, Ottawa; D. Noonan, Rideau Lakes Nav. Co.; T. Donnelly, Kingston; J. Overton, North-West Nav. Co.; J. Gaskin, Kingston; R. C. Carter, the Rathbun Co.; C. J. Smith, Richelieu & Ontario Nav. Co.; A. P. Cockburn,



INBOARD AND OUTBOARD PROFILE AND DECK PLANS, DOMINION CRUISER FOR THE GREAT LAKES.

ing her practically unsinkable. Frames are spaced 21", centres being made up of angles and reverse frames; the spacing of deck 2½" by 6-20". The keel is of flat plate type, hammered iron 6½" by 9-20." The stern post is of hammered iron 6½" by 1¾"; and the sheer lbs. There is a steel main deck of plates 4½" thick, and the wood decks are 2½" by

The vessel will be driven by twin screws of cast iron, 6 in diameter, and 10' pitch, each expansion engines, with cylinders 13½", 22" Rive the screws 210 revolutions a minute. Two fans, will be 1,800. The high pressure the indicated horse power, with forced draft, cylinder of each engine has piston valve, and have balanced double ported slide valves, all

W. E. Redway, M.I.N.A., the naval architect to the builders.

We are advised that the contract for the construction of division A of the main irrigation canal in Alberta, described on pg. 114 of our April issue, has been let to Nickson & Co., Vancouver, B.C.

#### Dominion Marine Association.

The first annual meeting was held in Ottawa Mar. 29, the President, C. F. Gildersleeve, in the chair. Among the others present were F. King, Secretary-Treasurer; H.A. Calvin, the Calvin Co.; T. Conlon, Thorold; J. H. G. Hagerty, St. Lawrence & Chicago Steam Navigation Co.; H. W. Richardson, Kingston; J. B. Fairgrieve, S.S. Arabian; H. C. Hammond, H. H. Gildersleeve, Northern Navigation Co. of Ontario; B. W. Folger, Niagara Navigation Co.; W. T. C. Boyd,

J. S. Playfair, Muskoka Lakes Nav. & Hotel Co.

The report of the executive committee reviewed the work which had been accomplished during the year, and which has been referred to in these columns from time to time. The membership is 48, representing 67,078 net registered tons of steam vessels and 34,-187 net registered tons of sailing vessels and barges, including the leading freight and passenger transportation lines navigating the inland waters. It recommended that the rates of assessment for 1904-5 be half of those fixed for the first year. The report was adopted. The Secretary-Treasurer's report showed

The Secretary-Treasurer's report showed receipts, \$2,364.65; disbursements, \$1,090.28, with liabilities of about \$125.

A report of a special committee on the rules of the road was adopted.

The following were appointed a special committee to confer with the Chairman of the Board of Steamboat Inspectors regarding the proposed amendments of the steamboat in-

spection rules, viz: T. Donnelly, A. A. Wright, A. P. Cockburn, T. Conlon, H. W. Richardson, J. H. Hall, G. F. Marsh, W. T. C. Boyd and J. Overton, with power to add to their number.

A. A. Wright brought up the question of shortages and surpluses in the weight of grain

at elevators, and the matter was referred to the executive committee for action.

The following matters were also referred to the executive committee: The injustice of the rule which compels vessels to pay for damages to locks, bridges, etc., without investigation or right of appeal from the decision of the canal officials, also the arbitrary method in which fines are imposed upon vessels, often without reasons assigned. A proposal for the use of electricity on the lock gates of the Lachine canal.

A motion that the Government should be asked to keep the canals open all day on Sun-

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D. L. WHITE, Vice-President.

J. W. BENSON, Sec'y-Treas

MIDLAND TOWING & WRECKING CO., LTD., MIDLAND, ONT., CANADA

First-Class Tugs for Wrecking, Raft Towing, Etc. Steam Pumps, Divers, Jacks, Hawsers and Lighters.

days was discussed and lost upon a vote be-<sup>ing</sup> taken.

The following executive committee was elected: C. F. Gildersleeve, H. C. Hammond, J. H. Hall, J. A. Cuttle, H. W. Richardson, R. C. Carter, R. O. Mackay, A. A. Wright, John Cooks, S. Crangle, Thos. Donnelly and John Gaskin.

The committee subsequently elected C. F. Gildersleeve, President, and J. A. Cuttle and H. C. Hammond, first and second Vice-President. idents respectively. The Secretary-Treasurer was declared permanently elected.

The special committee appointed to meet the Board of Steamboat Inspectors, attended a conference, and the Department's proposed amendments so far as they related to the qualifications of engineers were outlined to them. With certain exceptions these amendments were considered satisfactory and met the approval of the committee. With regard to these exceptions the committee subsequently waited upon the Minister of Marine, who received the committee's views with gratifying attention, and asked for a memorandum their proposals. This was accordingly submitted, and it has been promised careful consideration. On the day following a subcommittee of the Association completed the examination of the amendments to the rules, making suggestions where they were considered. ered proper. Many of the amendments are merely formal, and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in no case were they open to serious and in the serious and to serious objection, being generally designed to ed to improve the working out of the rules.

#### Notices to Mariners.

The following notices to mariners have been issued by the Department of Marine:

No. 17. Mar. 25.—Ontario—29. Detroit range lights. 30. St. Clair River, buoyage.

33. Detroit River, Ecorse, front range lights.

34. Diverse Mary Sault Ste. Marie, house. 34. River St. Mary, Sault Ste. Marie, Vidal shoals, channel range lights to be established. 35. Lake Superior, Crisp's Point, light and fog signal to be established.

No. 18. Mar. 30.—Quebec—36. Chaican Bay, New Richmond, Duthie Point, lighthouse established. 37. River St. Lawrence, below Quebec, traverse of St. Roch, changes in gas

No. 19. Mar. 31.—Nova Scotia—38. Bay sition of lighthouse.

No. 20. April 2.—Ontario -42. Lake Erie, No. 20. April 2.—Ontario –42. Lake ...., light, change in color of back range canal, 43. River St. Mary, Canadian Sault tremi:

No. 21. April 2.— Nova Scotia—44. Gut of Canso, information respecting tides.

The following notices have been issued by the U.S. Hydrographic Department:

No. 12. Mar. 19.—Detroit River—381. lights to L. Point, range lights to be moved.

No. 10 be moved.
No. 14. April 2.—St. Lawrence River— 473—Rock Island light station, N.Y., intended change in color of light. 474. Superior bearings, San buoy established, corrected bearings.

No. 15. April 9.—St. Mary's River—513. Changes in buoyage.

Maritime Provinces and Newfoundland. The str. Glencoe, of the Reid-Newfoundland Co.'s west coast service, is undergoing repairs at the Company's dry dock at St. John's. The Dominion Government str. Lansdowne is being fitted with new boilers, etc., at St.

A company has been formed at Windsor, N.S., to purchase the str. Avon, and retain her on her cond coast. Capt. her on her run on the river and coast. Capt. Trefry is the principal promoter.

The steamer which the Insular Steamship Co., of Westport, N.S., sold in 1902, is having a new deckhouse built, and on going into service this season is to be renamed the Mikado.

J. D. Bradshaw, for many years a leading shipbuilder of New Brunswick, died at St. Martin's recently, aged 84. He built a number of sailing vessels for Vaughan & Co., of Liverpool, Eng.

The Reid-Newfoundland Co.'s str. Bruce has been thoroughly overhauled at the Company's dry dock at St. John's, and has resumed her run between Sydney, N.S., and Point aux Basques, Nfld.

The annual meeting of the Richmond Steamship Co. was held at Sydney, N.S., recently, when a satisfactory report was presented for the season of 1903. It was decided to change the route of the Vega for the coming season so as to make four trips a week between Grand Narrows and St. Peter's, and two between Mulgrave and St. Peter's. C. H. Harrington was elected President, and J. A. Young Secretary-Treasurer.

The new service which the Bowring Bros. will inaugurate in Newfoundland will be given by the Mary Hough and the Prospero, pending the building of two steamers, for which contracts are reported placed in England. The Mary Hough is a Liverpool steamer, hitherto engaged in the coasting freight and passenger trade between London and Liverpool, and has the following dimensions: length, 225 ft.; breadth, 29 ft.; depth, 15 ft.; tonnage: gross, 869 tons; register, 531 tons. Her engines are of 139 nominal horse power, and she is fitted with electric light. She will be placed on the west coast service. The Prospero is a British built steamer, is registered at Christiana, Norway; her dimensions are: length, 179 ft.; breadth, 27 ft.; depth, 14 ft.; tonnage: gross, 678 tons; register, 414 tons. The details of the contract with Bowring Bros. were recently placed before the Newfoundland Legislature. The contract provides for one steamer to make 19 trips between St. John's and Griquet, at \$1,-750 a trip, and the other steamer to make 26 trips between St. John's and Bonne Bay at \$1,500 a trip, and will extend for 10 years. The total cost of the service will be \$72,250.

#### Province of Quebec Shipping.

The Dominion str. Aberdeen is being fitted with new boilers at Quebec, in addition to being given a thorough overhaul.

U. P. Boucher, engineer in charge or placing buoys on the ship channel between Montreal and Quebec, has also been appointed special agent of the Department of Marine in

The construction of a dry dock at Montreal at a cost of \$2,000,000 is being again brought before the notice of the Dominion Government. A site is suggested between Windmill Point and the Guard pier.

The Richelieu and Ontario Navigation Co.'s plans for the season include the making of four trips a week each way between Quebec and the Saguenay River, instead of two, as has hitherto been the case.

The North American Transportation Co. proposes to place its steamer Restigouche, formerly the Rathlin, of Glasgow, Scotland, on a run between Montreal, Quebec, and St. John's, Nfld., calling at Charlottetown, P.E.I. The round trip will be made in two weeks.

La Compagnie Generale du port de Chicoutimi is applying at the current session of the Quebec Legislature for an act of incorporation to carry on a general transportation and navigation business within the county of Chicoutimi, as well as to engage in other enterprises.

The report of the Department of Marine for 1903 shows that investigations were made into ten casualties on the St. Lawrence route. Of these the masters were held responsible for four, the pilots for three, and the remaining three were declared to be due to the perils of navigation. Two additional casualties took place, the investigations into which were made in England.

#### Ontario and the Great Lakes.

The fleet of the Algoma Central Steamship Line will be in charge of Capt. W. C. Barr during the coming season.

Capt. Hickley, of Kingston, who has been in the Richelieu and Ontario Navigation Co.'s service on the Prescott-Montreal run, has retired from active service.

The contract for the extension of the Dominion Government dock at Sault Ste. Marie, Ont., has been let to the Estate of the late John Battle, Thorold, Ont. The estimated cost is \$100,000.

Capt. McCaw, of North Bay, is building a steamer 125 ft. 6 in. long, 25 ft. beam, and a draft of 5 ft., to be fitted with engines of 35 horse power for trading on Lake Nipissing and the French River.

The tug Charles Jones was launched at Owen Sound recently for C. Jones. The dimensions are: length, 50 ft.; breadth, 12 ft.; depth, 6 ft. A high pressure engine capable of making nine miles an hour has been fitted.

The Northern Navigation Co.'s str. Britannic is under repair and will not be in service this year. Her machinery was badly damaged during 1903, and the repairs will not be completed in time to engage in the trade this season.

The str. Turbinia, to run between Toronto and Hamilton for the Turbine Steamship Co., was launched at Hebburn on-Tyne, Eng., Mar. 28. J. Moodie, President of the Company, recently went to England to come out on the new steamer.

The Kingston Board of Trade has petitioned the Dominion Government to construct a branch of the Rideau Canal into the township of Bedford, so as to open up some mineral lands, and also for the re-opening and deepening of the Wolfe Island canal.

A movement is being made in Picton, Cobourg and other points with a view of forming a joint stock company to purchase the str. Argyle from A. W. Hepburn, of Picton. Press reports state that Mr. Hepburn desires to retire from the business in favor of his sons.

The trustees of the Collingwood General and Marine Hospital are making application at the current session of the Dominion Parliament for authority to borrow money on the mortgage of its real property with a view of improving its buildings and adding to its equipment.

A by-law of the townships of Medora and Wood fixed the assessment of the hotel property of the Muskoka Lakes Navigation and Hotel Co. at Lake Rosseau at \$20,000 for 10 years from Jan., 1901. This by-law was confirmed by an act passed at the recent session of the Ontario Legislature.

The estimated cost of the canal which the U.S. Government is being asked to construct from Lake Erie, round the rapids of the Niagara River, to Tonawanda, N.Y., is \$3,-473.239. A deputation of shipping men recently went to Washington to press the claims of the proposal on the river and harbor committee of Congress.

We are advised that the Merchants' Line, managed by G. E. Jaques & Co., Montreal, which operates the Melbourne and Cuba, between Montreal and Toledo, Ohio, and intermediate ports, will have built one or more screw steamers for the route. The plans, however, are not sufficiently matured for any definite information to be given.

The Dominion Government has decided to use electricity for the opening and closing of the lakes on the Welland Canal and to light the canal along its whole length by the same means. A contract for the supply of the equipment has been let to the Canadian Westinghouse Co. Heretofore electricity has been utilized only for lighting at the locks.

The Oakville Navigation Co., owning the steamer White Star, which was burned in 1903, has decided to go out of business, and its affairs are being wound up in voluntary liquidation. The Company was a local one, comprising business men and fruit growers of

Established 1849

CHAS. F. CLARK. Pres. CHARLES L. BECKWITH, Sec.

#### **BRADSTREET'S**

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OFFICES THROUGHOUT THE CIVILIZED WORLD EXECUTIVE OFFICES

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THE BRADSTREET COMPANY gathers information that reflects the financial condition and the controlling circumstances of every seeker of mercantile credit. Its business may be defined as of the merchants, by the merchants, for the merchants. In procnants, by the merchants, for the merchants. In pro-curing, verifying and promulgating information, no effort is spared, and no reasonable expense considered too great, that the results may justify its claim as an authority on all matters affecting commercial affairs and mercantile credit. Its offices and connections have been steadily extended, and it furnishes infor-

have been steadily extended, and it furnishes information concerning mercantile persons throughout the civilized world.

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THOS. C. IRVING. Gen. Man. Western Canada, Toronto.

## JOHN J. GARTSHORE,

83 Front St. West, TORONTO.

Railway and Tramway Equipment.

New and Second-hand Rails

(All Sections.)

Locomotives, Cars, Derricks, Hoisting Machinery, etc.

Old Material Bought and Sold.

### IMPERIAL BANK OF CANADA.

Capital authorized - - \$4,000,000 - - 2,983,896 - - 2,636,312 Capital paid up -Rest - - -

DIRECTORS:

T. R. Merritt, President; D. R. Wilkie, Vice-President; Wm. Ramsav, Robert Jaffray, T. Sutherland Stayner, Elias Rogers, Wm. Hendrie,

#### HEAD OFFICE, TORONTO.

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#### Branches in Quebec, Ontario, Manitoba, North-West Territories and British Columbia

AGENTS.—London, Eng., Lloyds Bank Limited; New York, Bank of Montreal, Bank of the Manhattan Co., Bank of America. Sterling exchange bought and sold. Letters of credit issued available in any part of the world.

A general Banking business transacted.

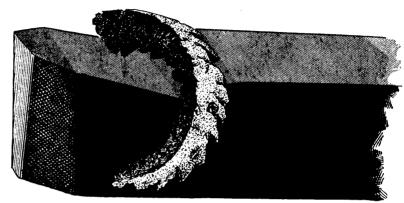
Oakville and vicinity, and did a good business. It is expected that an arrangement will be made by which the Hamilton steamers will call at Oakville during the season.

The Montreal, Ottawa and Georgian Bay Canal Co., which was originally incorporated in 1894 to construct a navigable ship channel between Montreal and Georgian Bay, using the Ottawa River, Lake Nipissing and the

French River where possible, is applying the current session of the Dominion Parliament for an analysis ment for an act granting a further extension of time to 1906 for the commencement, and until May 1, 1912, for the completion of the works.

The steamer, which the Huntsville, Lake of Bays and Lake Simcoe Navigation Co. proposes building for its Lake of Bays service,

## JESSOP High-Speed ... TOOL STEE



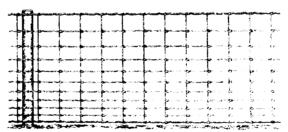
Unexcelled for Turnins Locomotiv<sup>e</sup> Tires, Car Wheels Shafting, Etc.

l-inch cut, l-inch feed. Speed 20 to 40 feet per minute. Tools hardened by heating white hot and cooled in air.

CAN NOT BE BURNED.

WM. JESSOP & SONS, Limited, Sheffield, Eng. Chief American Office, 91 John St., New York. C. L. BAILEY, Agent, 80 Bay St., Toronto-

## "AMERICAN" WOVEN WIRE -RAILWAY FENCING:



Special Steel,

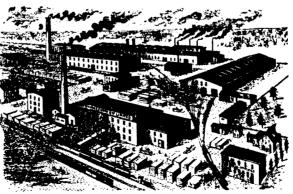
Special Treatment Special Galvanizing, Extra Heavy Wire,

Perfect Hinge Joints Tension Curves amply provide requisite elasticity to successfully combat varying temperature.
"AMERICAN" FENCES have a world-wide repu tation; quality the best-

WRITE TO US AND WE WILL SAVE YOU MONEY.

Manufactured in Canada by

THE CANADIAN STEEL & WIRE COMPANY, Limited HAMILTON, CANADA.



## Rhodes, Curry & Co.,

Railway and Street Cars

of all descriptions. Special Cars for Coal, Oren & Lumber, &c., with Ball-Bearing Wheels.

Car Wheels, Axles, Castings, Forgings, &c. AMHERST, NOVA SCOTIA.

Will be 120 ft. long by 23 ft. beam. frame timbers are being prepared at Collingwood, and will be set up on the Lake of Bays, where the planking will be completed by the Company. A fore and aft compound engine will be installed, capable of giving a speed of 14 miles an hour. The cost of the steamer completed is estimated at \$20,000.

The St. Clair and Erie Ship Canal Co., which was originally incorporated by the Dominion Parliament in 1899 to construct a ship canal canal from Lake St. Clair to Lake Ontario, across the counties of Essex and Kent, or either of them, is applying at the current session of the Dominion Parliament for two years. years' additional time for the commencement, and five years' additional time for the completion of its works. D. Tisdale, M.P., Simcoe, Ont.; H. C. Boultbee, Toronto; D. F. Henry, Detroit, Mich.; C. A. Youmans, Neillsville, Wis., and H. A. Olney, Saltash, Cornwall, Eng., and H. A. Olney, Santash, Columbia direct the incorporators and provisional directors.

Returns laid before the Dominion Parliament recently show that during the last season of navigation 548,486 bush. of wheat were received at Quebec from Port Arthur and Upbush, by rail; and that 1,002,358 bush. were received at Maranal from Unper Lake points received at Montreal from Upper Lake points without the stimments of without transhipment. The shipments of totalled Buffalo, N.Y., from Port Arthur totalled 2,376,099 bush., and from Fort William. On 2,376,099 bush. lam, Ont., 5.527,162 bush. The grain handled at the following Canadian ports during the year was 6 000 bush.; year was: Collingwood, 16,050,000 bush.; Depot Harbor, 14,765,466; Midland, 13,545,
Mayford, 4,004,716; 958; Kingston, 14,765,466; Midland, 13,545, Goderich, 3,289,195; Owen Sound, 3,248,089.

There was launched from the yard of the polson Iron Works, Toronto, April 9, the hull of the second form the lightships ordered by of the second of the two lightships ordered by the second of the two lightships ordered by the Dominion Government. The vessel was named Anticosti, as she left the ways, by Engineer Col. W. P. Anderson, Chief Poss Polson. Col. W. P. Anderson, Polingineer of the Department of Marine, representation of the Department of Marine, The resented the Department of Anticate ( Anticosti is in all respects a duplicate of the Lurcher, which was completed in 1903 and placed, which was completed off Varmouth, placed on the Lurcher shoal off Yarmouth, NS., a detailed description of which was in our issue for Feb., 1903. The Anticosti is expected to be completed early in June, when the will be completed early in June, when she will be placed in position off Anticosti Is-land in the Gulf of St. Lawrence. These steamers steamers are the first of the kind placed in Service in Canada.

The Canadian Shipbuilding Co. is laying out its shipbuilding yard and erecting buildings for its shipbuilding yard and erecting buildings for its shops on a site ings for its engine and boiler shops on a site river between Bridgeburg and Black Creek,

Bertie in Walland county. In order to in Bertie tp., Welland county. In order to secure to Welland county. secure the, Welland county. In order modern requisite space for the launching of modern vessels of the largest size it was found necessary reserve, or necessary to divert the chain reserve, or modern highway which runs along the margin of the of the river round the shipyard proper. An application application to do this was made to the Commissioners of the Queen Victoria Niagara Water lot the Company also desired the Crown, in front water lot, the property of the Crown, in front of its land. of its lands, in order to deepen the approaches the dails. As the to the docks and launching basins. As the Commissioners deemed it advisable to facilitate, in every way, the establishment of an industry likely to be of lasting benefit to the Province, and the municipal authorities did not object to the change, an agreement was entered into providing for the diversion of the water lot in road and the granting of the water lot in 80 ft. wide, across its property in lieu of the the company to pay \$500 a year for the control of the state of the control the privilege. The area of the water lot statement respective the privilege. The area of the water lot statement respective the negotiations for the statement respecting the negotiations for the land, and respecting the negotiations for the land, and a copy of the agreement is publish-

ed in the report for 1903 of the Commissioners for Queen Victoria Niagara Falls Park, recently issued by the Ontario Government.

The following appointments to steamers have been announced for the season of navigation, 1904:

#### ALGOMA CENTRAL STEAMSHIP LINE.

King Edward-W. Bemrose, master; S. Beatty, enking Edward V. Bernamster; J. Grimes, engineer. Minnie M.—A. Batten, master; J. Grimes, engineer. Paliki—— Garvey, master; Jas. Greig, engineer. Leafield-K. Jordan, master; A. Foote, engineer. Theano—G. Pearsall, master; J. L. Smith, engineer. Monkshaven—P. McIntyre, master; P. Ryan, engineer. Barlum (barge)—E. Cadotte, master.

CANADIAN LAKE AND OCEAN NAVIGATION CO.

Turret Cape.-E. L. Stephen, master.
Turret Chief.-J. McPhee, master.
Turret Court.-J. Black, master.
Turret Crown.-J. Dicks, master; W. Robinson, engineer.
H. M. Pellatt.-G. Bryan, master; J. Byers, engineer.
J. H. Plummer.-- Mackay, master; R. Chalmers, engineer.

gineer.
E. Ames-R. Chestnut, master; S. Gillespie, en-

#### MONTREAL TRANSPORTATION CO.

Rosemount—J. Wood, master; R. Taylor, engineer. Westmount—A. Milligan, master; J. Young, engineer. Fairmount—P. C. Telfer, master; W. Newbold, engineer.

#### NORTHERN NAVIGATION CO.

Huronic-R. D. Foote, master; H. Brisbine, engineer; J. H. Ronan, purser.
Monarch-E. Robertson, master; T. Crossley, engineer;

Monarch—E. Robertson, master; 1. Crossiey, engineer, A. Carss, purser.
Empire—J. McNab, master; F. Cleland, engineer; C. B. Pardee, purser.
Majestic—A. Campbell, master: W. Whipps, engineer; G. Ince, purser.
City of Collingwood—G. H. Playter, master; C. Robertson, engineer; S. Hewitt, purser.
Germanic—W. G. Cox, master; J. Aston, engineer; H. D. A-rold purser. Germanic-W. G. Cox, master; J. Aston, engineer; H. D. Arnold, purser.
City of Midland-A. M. Wright, master; S. Burgess, en-

City of Toronto—W. B. Kitchen, master; H. Myles, engineer; B. Batten, purser.

RICHELIEU AND ONTARIO NAVIGATION CO.

Kingston—H. Esford, master; A. R. Milne, engineer. Toronto—E. A. Booth, jr., master; W. A. Black, engineer. Bohemian—A. Dunlop, master; G. Gendron, engineer. Columbian—C. P. Hinckley, master; J. Conlin, engineer. Hamilton—J. P. Stevenson, master; H. Demartigny,

Hamilton—J. P. Stevenson, master; H. Demartigny, engineer.
Spartan—J. McGrath, master; R. G. Marshall, engineer.
Corsican—D. Mills, master; W. S. Parker, engineer.
Algerian—J. Foubert, master; C. Gendron, engineer.
Quebec—L. O. Boucher, master; F. Gendron, engineer.
Canada—L. St. Louis, master; J. Hamelin, engineer.
Carolina—A. Fortin, master; N. Beaudoin, engineer.
Virginia—J. Dougal, master; M. Latullipe, engineer.
Saguenay—C. Lapierre, master; G. Gagnon, engineer.
Three Rivers—C. Gouin, master; J. Matte, engineer.
Berthier—J. Jean, master; E. Dennis, engineer.
Beaupre—J. B. Mongeau, master; E. Dennis, engineer.
Chambly—G. Paulet, master; E. Gendron, engineer.
Terrebonne—F. X. Laviollette, master; N. Beaucage, engineer. engineer.

#### OTHER APPOINTMENTS.

Iroquois — McMaugh, master. Newmount (Farrar Transportation Co.)—F. A. Bassett, master; J. W. Aston, engineer. Strathcona—A. Irving, master; J. Smeaton, engineer. Donnacona—— Maudsley, master; C. Duguid, en-

gineer. Victoria (Rockport Navigation Co.)—J. A. Carnegie, master and manager. W. D. Matthews - J. Ewart, master; E. J. Odell, en-

Wexford-W. J. Bassett, master; D. McLeod, engineer.

#### Manitoba and Northwest Territories.

Replying to a question in the House of Commons recently, the Minister of Public Works stated that \$75,000 had been paid to contractors for the improvements to the St. Andrew's Rapids, near Winnipeg. The Government had under consideration the question of proceeding further with the work.

The Hudson's Bay Co. is having built at Prince Albert, Sask., a stern-wheel river steamer of the following dimensions:-length, 100 ft.; breadth, 23 ft, 7 in.; draft, 20 ins. She will be fitted with engines 9 by 45 in., and a boiler carrying 190 lbs. steam pressure. The steamer will have a cargo capacity of about 60 tons, and in favorable stages of the water barges will be towed. The steamer will have a maximum of power on a minimum draft, so that the two great difficulties of the

rapids and the numerous sand bars of the Saskatchewan river may be overcome. The many settlements that have recently sprung up along the river necessitate an increase in the means of communication. The H. B. Co. inaugurated steam navigation on the river a number of years ago, but owing to want of success it was abandoned. The outlook at the present time is much more favorable.

The report of the Department of Marine shows that during the year ended June 30, 1903, there were added to the vessels plying on the navigable waters in Manitoba and Northwest Territories the following steam-

For Red River service-Stern wheel steamer Alexandra, built of wood at Winnipeg, Man.; 4.2 horse-power engines; tonnagegross, 163.57 tons; net, 37.53 tons; licensed to

carry 250 passengers.

For Lake Winnipeg trade — Screw Roddly, built of wood at Selkirk, Man.; 0.53 horse-power engines; tonnage-gross, 14.10 tons; register, 9.59 tons. Screw str. Firn, built of wood at Winnipeg, Man.; 1.5 horse-power engines; tonnage-12.61 tons, register, 6.00 tons. Both these are fish tugs.
For Pelican Lake service — Screw str.

Pioneer, built of wood on the lake; 3.00 horsepower engines; tonnage-gross, 16.44 tons, register, 8.44 tons. Licensed to carry passengers.

For Peace River service-Screw str. St. Charles, built of wood on the river; 6.00 horse-power engines; tonnage-gross, 28.79

tons; register, 19.50 tons.

For Mackenzie and Slave River trade-Screw str. Caraboo, built of wood at Fort Smith; 6.00 horse-power engines; tonnagegross, 28.65 tons; register, 19.49 tons. Screw str. Eva, composite construction, built at Athabasca Landing; 8.00 horse-power engines; tonnage-gross, 49.28 tons; register, 27.90 tons.

For Slave and Athabasca River trade-Screw str. Primrose, built of wood at Fort Chippewyan, 1.2 horse-power engines; tonnage-gross, 8.40 tons; register, 5.72 tons.

#### B.C. and Pacific Coast Shipping.

The Yale Lumber Co. is having a tug built at Nakusp, B.C., the machinery for which will be supplied by a Vancouver firm.

The Admiralty Court for B.C. has awarded the str. Vermont \$4,400 for salvage services rendered to the sailing ship Abby Palmer.

The str. Mermaid, owned by the New Vancouver Coal Mining and Land Co. of Nanaimo, B.C., ran on a rock in Jarvis Inlet, Mar. 25, and sank in deep water.

The Revelstoke Board of Trade is urging on the Dominion Government the importance of deepening and otherwise improving the channel of the river between there and Arrowhead, B.C.

The Dominion estimates for the current year contain \$70,000 for the construction of a steamer for the William Head quarantine station, Victoria. The str. Earl is at present in use, but is not well suited for the service.

The C.P.R. Pacific Coast str. Queen City broke her main shaft in Quatsino Sound on a recent trip. The passengers were taken to Victoria on the Dominion str. Quadra, and the Queen City was subsequently towed to Victoria for repair.

The Thompson River Improvement Co. is applying at the current session of the Dominion Parliament for an act of incorporation, with power, among other things, to carry on a general navigation business on the Thompson river and its tributaries. D. Murphy, Ashcroft, B.C., is solicitor for the applicants.

Two transfer barges 125 ft. long by 36 ft. beam have been completed for the Harbor

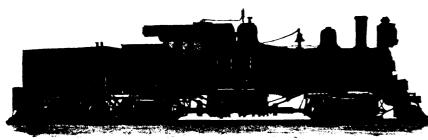
## The POLSON IRON WORKS

TORONTO, CANADA.

Engineers, Boilermakers and Steel Shipbuilders.

OFFICE AND WORKS-Esplanade St. East, TORONTO.

Adapted for Freight and Passenger Service on Heavy Grades Weights from 10 to 150 Tons, and Curves.



THE LIMA LOCOMOTIVE AND MACHINE COMPANY LIMA, OHIO



## The Holland Portable Light

Railways, Wharves, Mines, Bridge Builders, Contractors, Machine Shops, Etc.

It is the most efficient and economical Portable Light on the market, it costs less to buy, gives no trouble in operating, requires no repairs, costs about 3c. an hour to operate, and gives 300 candle-power of light.

THE HOLLAND PORTABLE LIGHT WORKS

17-19 Busby Lane, MONTREAL

## JOHN S. METCALF CO., Engineers, Grain Elevator Builders.

620 TO 623 THE TEMPLE, CHICAGO, ILL.

A partial list of elevators which have been designed and constructed by us and

under our supervision.			
Burlington Elevator, St. Louis, Mo	Capacity	7	Bushels
Grand Trunk Elevators, No. 2 and No. 3, Portland, Me		2,500,000	•••
Export Elevator, Buffalo, N.Y	. <b>**</b>	1,000,000	**
J. R. Booth Elevator, Depot Harbor, Ontario	"	1,000,000	"
Southern Pacific Terminal Co.'s Elevator, Galveston, Texas	••	1.000,000	
Erie R. R. Transfer & Clipping House, Chicago, Ill	. <b>**</b>	100 cars in 10 hrs.	
Manchester Ship Canal Co.'s Elevator, Manchester, Eng	. "	1,500,000	
Burlington Elevator Co., Peoria, Ill	••	500,000	
Canada Atlantic Railway Elevator, Coleau Landing, Que	"	500,000	"
Northern Grain Co. Manitowoo Wis			**
Union Elevator, East St. Louis, Ill	•••		**
Montreal Warehousing Co.'s Belt Conveyor System			

We make a specialty PLANS AND SPECIFICATIONS.

## RAILWAY EMPLO

Officers and employees of Railroad Companies are constantly asked for Fidelity Bonds. If you require one apply to us-we act as security on bonds of all descriptions.

Write Us for Particulars

The London Cuarantee and Accident Co'y, D. W. ALEXANDER, Genl. Mgr., Canada. Canada Life Bldg.. Toronto



### WINDMILLS

(Canadian Airmotor)

TANKS

TANK FIXTURES

RAILROAD WORK A SPECIALTY

Ontario Wind Engine and Pump Co., Limited TORONTO, - ONT.

## STEEL, PEECH & TOZER,

SHEFFIELD, ENGLAND.

STEEL AXLES, TYRES, AND SPRING STEEL.

"PHŒNIX" Loco. Spring Steel is the accepted Standard in Canada.

SOLE AGENTS:

James Hutton & Co., Montreal

### THE PLACE VIGER MONTREAL.

A beautiful new hotel just built by the Canadian Pacific Ry., in connection with their new passenger station. The building occupies an entire block and the style of architecture is that of the Chateau period of the French Renaissance. The hotel faces all Viger Gardens, and is thoroughly up-to-date in all its appointments. American tourists will find the Place Viger a most delightful hotel home.

RATES: \$3 UPWARDS.

Special arrangements with large parties and the making prolonged stays. For further information address, Manager, Place Viger Hotel, Montreal,

#### OUR SPECIALTIES

RAILROAD STEAMSHIP PRINTING

LARGEST IN CANADA

The Mail Job Printing Company, Limited 75 York Street, Toronto

Richard Southand

Lumber Co., Nakusp, B.C. A tug for the same Company is under construction at Nakusp, the machinery for which is being built by the Polson Iron Works, Toronto. The steamer is expected to be completed in June.

The Muskoka Lakes Navigation and Hotel Co. (Ltd.) has given a renewal chattel mort-gage to the Canada Permanent Mortgage Corporation for \$84,720.

The Deputy Minister of Marine, as Chairman of the Lighthouse Board, has informed the Publisher of The Railway and Shipping World that the latter's letter of March 14, saggesting that the inland marine interests should be represented on the board, which before the board for its consideration at its next meeting.

The Order-in-Council providing for the establishment of the Lighthouse Board of Canada, sets forth that the Board has been applicated to enquire into, and report to the all questions relating to the selection of lighthouse sites, the construction and maintenance of lighthouses, fog alarms, and all other by the act relating to Lighthouses, Buoys, heretofore a clerk in the offices of the Departon to Marine, has been appointed Secretary to the Board.

The Canadian Ocean and Inland Line, which was promoted by W. Petersen, of Newcastle-on-Tyne, Eng., and which operated Montreal in 1903, will again run its steamers between Antwerp, London and between the same points. T. Harling, of Montreal, is the agent of the Company at that Orange of Canadien, a Company formed for the purpose of operating steamers between which some of the same interests represented associated. A fortnightly service will be in-Montreal with steamers to points on the Uper Lakes.

An amendment to the act relating to marine engineers is under consideration at the current session of the Dominion Parliament. It provides for the Pominion ratificated permitting the employment of non-certificated engineers on tugs, dredges, floating elevators and other vessels up to 150 tons, and for compelling the owners of all such vessels to employ duly certificated engineers. The only excens: exception which it is proposed to retain in the act will act will permit the employment of non-certifi-cated and the employment of non-certificated engineers on private yachts. It is also proposes proposed to create a fourth class of certificated energy to take ed engineers, who will be permitted to take charge of vessels when a higher class of engineers are not available. This would allow the arms of the employment of this class of engineers on vessels vessels trading on the minor inland waters. At present the Minister of Marine has power to Rrant to applicants o Fresent the Minister of Marine has power of Brant temporary certificates to applicants of Boilers recommendation of the Inspectors of Boilers and Machinery for the several districts.

## Among the Express Companies.

The Canadian Ex. Co. has extended its recently opened extension from Tweed to The D.

The Dominion Ex. Co.'s offices at Masson, named Buckingham Jct., La Perade and The Dominion Fame Deckingham Jct., La Perade and The Dominion Fame Perade and The Dominion Fame Perade Inches Perade In

The Dominion Ex. Co. has appointed J. Peg, as route agent at Winnipeg. He is suc-

ceeded as assistant route agent by C. N. Spooner.

The Canadian Ex. Co. has opened offices at Allans, Bridgewater and Queensboro', Ont.; Charlemagne, L'Assomption and L'Epiphanie, Que.; Cumberland Bay, N.B., and Pomquet, N.S.

Special forms for permits and manifests covering shipments for the Louisiana Purchase Exposition at St. Louis, Mo., have been issued by the U.S. Treasury Department and can be obtained on application. They are printed on red paper and are marked with the word "Expedite."

The enforcement of the regulations by the U.S. Customs authorities in regard to express packages consigned from Canadian points to the U.S., has resulted in the holding up of a large number of consignments at the border offices. The regulation is an old one, but has not hitherto been strictly enforced. It is required that the ultimate consignee shall furnish the authorities with an affidavit of value before the goods are allowed to pass the border. This sometimes takes several days, meanwhile the goods are held up.

#### Telegraph and Cable Matters.

The Western Union Telegraph Co. has declared a dividend of 11/4% for the quarter ended Mar. 31, carrying forward a surplus of \$14,607,028.47.

The Halifax and Southwestern Ry, has given a contract for constructing 100 miles of telegraph lines between Halifax and Mahone, and between Bridgewater and Liverpool, N.S.

The charter of the Anglo-American Telegraph Co., which expired April 15, gave the Company a monopoly of the cable communication for commercial purposes between Newfoundland and Great Britain, Prince Edward Island and the mainland of New Brunswick

E. E. Rand, of Vancouver, who was reported to have secured an option on the rights to operate the Marconi system of wireless telegraphy, states that his option has expired. He further says that expensive lawsuits are bound to grow out of any attempted establishment of the system.

The C.P.R. Telegraph Department has opened offices at Lardo, Gerrard, Glacier, Proctor, Troup Jct., and St. Leon, B.C.; Bowsman, Eden, Marchand, Ogilvie, Woodridge, Mowbray, Man.; Bear's Pass, Dalton, Kama, Metagama, Mattawin, North Lake, and Otter, Ont., and Maniwaki, Que.

The North American Telegraph Co. is applying at the current session of the Dominion Parliament for an act authorizing the change of its head office from Kingston, Ont., to Winnipeg, Man., an increase in its capital from \$1,000,000 to \$10,000,000, and power to extend its lines to Manitoba and the Northwest Territories.

A cable message was recently transmitted from Australia over the British Pacific cable to Vancouver Island, the C.P.R. Telegraph line and the Commercial Cable Co.'s cable to Great Britain in the record time of 2½ minutes. The message contained information of the result of a cricket match between the English and Australian elevens.

There was expended on the postal telegraph service of Newfoundland during the financial year of 1903, the sum of \$41,000, of which \$14,000 was for the building of new lines, and \$27,000 for running expenses. The income for the year was \$13,000. The Government is asking the Legislature to vote \$29,760 for expenses for the current year.

At the annual meeting of the Marconi Wireless Telegraph Co. held in London, Eng., Mar. 30, it was reported that the receipts had

exceeded the expenditure by \$50,085, and that an agreement had been made with the British post office which would place the Company on a level with the cable companies in regard to the receipt and despatch of messages. No definite statement was made as to when it was expected to have the stations opened for the transmission of messages across the Atlantic.

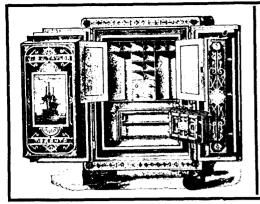
The report of the Dominion Department of Public Works for the year ended June 30, 1903, shows that there are 6,244¾ miles of telegraph lines under the control of the department, with 259 offices. The number of messages transmitted during the year was 96,500. The expenditure on construction and improvements was \$135,154.33; on repairs, \$11,193.19, and on staff and maintenance, \$412,745.06, making a total of \$559,092.58. The receipts of the different lines were \$132,-422.17, in addition to which signal service, messages, meteorological service messages, reports and fisheries' bulletins are handled free of tolls.

The extension of the Government telegraph line from Edmonton to Athabasca Landing, Alta., 98 miles, will be undertaken as early as practicable, the work being done by the Government linemen, with such assistance as may be found necessary, under the supervision of J. S. Macdonald, District Superintendent, Qu'Appelle, Assa. The new line will be carried along the existing roadway from Edmonton to Athabasca Landing. The poles for the line are being got out along the line of route by local contractors, and the other material is on hand at Edmonton. The line will be strung with no. 8 galvanized iron wire, with no. 9 tie wire, on white porcelain insulators, fixed on oak brackets, wire nails being used.

In the act respecting municipal taxation considered at the recent session of the Ontario Legislature, it was proposed to assess telegraph and telephone companies a percentage of the amount of gross receipts in cities, towns and villages, and for \$200 a mile for one wire, and \$7.50 a mile for every additional wire, and to free the companies from all other taxes. Such taxes were to be a lien on the property of the Company's lands in the different municipalities; and the Companies were directed to file statements of earnings a. d mileage in each city, town and village by Feb. 1 in each year. During the discussion a separate clause was adopted providing for the assessment of telegraph companies apart from telephone companies as follows:—A business tax, to be based on 60% of the gross receipts in each municipality, and an assessment of \$60 a mile for each mile of single wire and \$5 a mile for each additional wire.

The C.P.R. Telegraph Department has arranged to carry out the following construction work during the year: New wires on existing lines of poles-a copper wire from Montreal to Quebec; an iron wire from Toronto to Detroit, Mich.; an iron wire from Toronto to Peterboro, Ont.; an iron wire from Hamilfrom Montreal to North Bay, Ont., and from Fort William, Ont., to Winnipeg, Man.; thus completing a fourth duplex circuit between Montreal and Winnipeg, part of which was completed in 1903; a 210 lb. copper wire from Winnipeg to Regina, Assa.; an iron wire from Fort William to Ignace, Ont. Extensions of pole lines and wires-From Yorkton, Assa., westward for 40 miles; on the Pheasant Hills branch, 81 miles; on the Kirkella branch, 10 miles; from Arcola to Regina, Assa., 113 miles; from Wetaskiwin, Alta., easterly 25 miles, and from Lacombe, Alta., easterly 25 miles. In addition to the above there will also be between 600 and 700 miles of pole lines rebuilt, and the ordinary general repairs.

C. H. Gibbons, of Vancouver, and D. V. Mott, of Fernie, B.C., have been granted a



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lease of the Government telegraph lines on Vancouver Island, in trust for a company to be known as the British Pacific Telegraph Application for the incorporation of a Company with this title has been made to the Dominion Government. The proposed capital of the Company is \$25,000, and its chief office will be in Victoria, B.C. The lease of the lines is for 21 years, but the Government may terminate it at any time upon compensations. may terminate it at any time upon compensating the Company. Under the terms of the lease the Company. Under the terms the lease the Company agrees to maintain the lines the Governlines in an efficient state, to give the Government free transmission for its messages, and to mat. to make an annual payment by way of rental. According to the report of the General Superintend erintendent of Telegraphs for the year ended June 30, 1903, the total length of the Government telegraph lines on Vancouver Island was 38214 miles, with 20 offices. The expenditure during the year was \$6,463.49 for con-Struction and improvements, \$2,381.96 for repairs, and \$11,398.74 for salaries and maintenance, a total of \$20,244.19; whilst the total income data of \$20,244.19; whilst the total salaries are \$2.068.88. income during the same period was \$2,968.88.

Following are particulars of the several lines: The Victoria-Cape Beale line, 118 miles long, was constructed in 1891, and extends from Victoria-Cape lang the south from Victoria to Cape Beale along the south Sooke, Otter Point, Jordan River, Port San Juan Cotter Point, Jordan River, Port San Juan Cape Beale. Juan, Carmanah lighthouse and Cape Beale. The superintendence of this line has been in the has the hands of the Resident Engineer at Victoria since Oct., 1901, when the arrangement theretofore in operation with the C.P.R. Telegraphs was terminated. The salary list is was \$2.00 a year, and the expenditure for 1902-3 was \$2,381.96 for repairs, and \$4,607.21 for salaries and maintenance, while the total receipts were \$424.09. The average yearly

number of messages handled is 800.

The Nanaimo-Comox line, 81 miles long, was conditioned extends from was constructed in 1893, and extends from Nanaim coast. Nanaimo to Comox along the eastern coast, and him Wellington, Parksville, Union Bay, Union Mines, Cum-of this limits of the courtney and Comox. The repairs of this line have been done jointly with the C, P, P. The have been done jointly with the C.P.R. Telegraphs since Dec. 1, 1902. The Salary list is \$2,766 a year, and the expenditure for 1902-3 was \$3,817, the receipts being

\$2,430,46. line oc. Parksville, Alberni and Cape Beale Ine, 86 2 miles long, extends from Parksville which paintain Comox line to Alberni, to which Nanaimo-Comox line to and to Cape to Cape it was completed in 1895, thence to Cape in the was reached in to Cape Beale, which point was reached in 1890. The Beale, which point was reached in 1890. There are only two offices on the line. The salary list is \$480, and the total expenditure for salary list is \$480. ture for salaries and maintenance for 1902-3 was e. salaries and maintenance for 1902-3 Was \$1,118, while the total receipts were \$13.16. The average yearly number of mesages handled sages handled over this line and the Nanaimo-The Au 18,000.

The Alberni-Clayoquot line, 9634 miles in Clayoquot, length, extends from Alberni to Clayoquot, cable Franklin Creek by a half mile of cable, and giving a private cable connection line Stubbs Island, from Clayoquot. The line was Completed in 1902, and offices were quot. The New Alberni, Ucluelet and Clayoquot There was expended on construction improved was expended on \$6,463.49, and improvements during 1902-3 \$6,463.49, \$1,856.53 on staff and maintenance, whilst the receipts amounted to \$91.17. The average yearly number of messages handled

## General Telephone Matters.

The Bell Telephone Co.'s exchange at humand out Mar. 27. Smith's Bell Telephone Co.'s exchange That, Palls, Ont., was burned out Mar. 27. The Vernon and Nelson Telephone Co. is pplying to the B.C. Telea the Vernon and Nelson Telephone Co. ... phone Co. Tele-

The Bell Telephone Co. has completed a conner Simcoe to Port hew copper metallic line from Simcoe to Port Rowan, Ont.

The Bell Telephone Co. has been approached by a deputation of residents along the Gatineau Valley who desire a telephone connection with Ottawa.

The East Grey Telephone Co. is being formed at Kimberley, Ont., for the purpose of constructing a local telephone line between Thornbury and Markdale, and also to give a connection to Kolapore, Redwing, Duncan and Heathcote.

Local telephone lines are projected in British Columbia from Armstrong to Penticton, and from Kelowna to Vernon. A company is being promoted at Vernon to construct one or both of these lines, and M. K. Rogers, of the Nickel Plate Mine, Hedley, proposes to construct a line from Hedley to Penticton if the other lines are constructed.

The International Telephone Co., press reports state, has completed arrangements whereby Victoria and other points on Vancouver Island are to be given a connection with points in Washington Territory and Oregon. It is proposed to lay a cable across the strait from the U.S. mainland to Vancouver Island. Jas. Forman, of Heisterman & Co., Victoria, B.C., had charge of the negotiations in that city.

Replying to the Ottawa city council's decision to grant an exclusive franchise for five years on certain terms, the Bell Telephone Co. submitted an amended offer by which house telephones would be supplied at \$20 each on four party lines, and at \$25 each on exclusive lines, and offered to pay \$1,500, being the amount it would have paid had its previous franchise not expired a year ago. The Canadian Telegraph and Telephone Co. has submitted a revised offer to supply house telephones at \$18.

Representatives of the Bell Telephone Co. and of the other electrical companies in Montreal recently had a conference with the special committee of the Montreal city council which has in charge the conduit proposal. The Bell Telephone Co. has an extensive conduit system in the city at present, and President Sise was anxious to find out how the city would deal with it. The city council had opposed the construction of conduits previously and the Company had to obtain an order of the Privy Council to authorize it. The chairman of the committee gave an assurance that compensation would be granted in case existing conduits were taken up by the city, and that all extensions and improvements necessary would be made by the city.

In connection with the proposal to provide a memorial at Brantford, Ont., to Prof. Graham Bell, inventor of the telephone, a suggestion has been made that a piece of ground known as the Willows be purchased and cleared for use as a public park and play ground. The park would be named the Telephone Park, and a monument could be erected when there were sufficient funds on hand. W. F. Cockshutt, chairman of the committee having the matter in charge at Brantford, recently received a letter from Mr. Bell in which he said that although much of the perfecting was done in the United States, the invention of the telephone took original shape while he was living at Tutela Heights, close to Brant-

The long distance telephone line between Halifax and Sydney, N.S., which has been under construction for the last two years, by the Nova Scotia Telephone Co., Halifax, and the Eastern Telephone Co., Sydney, which was completed and placed in operation Mar. 15, is 292 miles in length It follows the main road from Halifax, via Truro, New Glasgow, Antigonish, and Auld's Cove to Cape Porcupine. A submarine cable about a mile in length makes the connection with the Cape Breton shore of the Strait of Canso at Port Hastings. The line is then carried along the

main road via West Bay, Orangedale and Iona to Grand Narrows, including a submarine cable 3/4 miles in length, thence parallel with the Intercolonial Ry, to Leitche's Creek, from whence it goes direct to Sydney. At Auld's Cove there is a branch of about four miles in length connecting with Mulgrave; at Port Hastings there is a branch line to Port Hawkesbury. Connection is made at Antigonish with the Antigonish and Sher-brooke Telephone Co.; at Port Hawkesbury with lines running to St. Peter's and Arichat; at Orangedale with Marble Mountain, Whycocomagh and Baddeck; and at Sydney with North Sydney, Sydney Mines, Glace Bay and Louisburg. There were used Glace Bay and Louisburg. There were used in the construction of the line 13,000 cedar poles, and 102,000 lbs. of copper wire. Porcelain insulators have been used as being less liable to break than those made of glass. The line was constructed from Halifax to the Strait of Canso by the Nova Scotia Telephone Co., and from Sydney to the Strait of Canso by the Eastern Telephone Co., the cable connecting the two lines being laid at the joint cost of the two companies. The cost of the line is placed at about \$90,000. The rate is \$1.25 for a three-minute conversation between 8 a.m. and 6 p.m., and 65c. for three minutes' conversation between 6 p.m. and 8 a.m.

#### Telephone Rates in the U.S.

In connection with the discussion of telephone rates, etc., in Toronto, the following schedule of rates which are being charged by the Bell Telephone Co. of the U.S. in cities about the same size as Toronto, will be of interest. These rates are obtained from an authoritative source, and are for unlimited service, metallic circuit lines and solid back transmitters:

	Popula-	Busi-	Resi-
	tion.	ness.	dence.
Rochester	163,000	\$ 60 00	\$48 00
St. Paul	163,000	84 00	48.00
Kansas City		96 oo	42 00
Indianapolis		72 00	48.00
Providence	. 176,0co	96.00	78 00
Minneapolis	202 000	84 00	48 ou
Louisville	204.000	96 oo	42.00
Jersey City	206,000	150 00	75.00
Newark	247,000	150 00	75 ∞
Washington	279.000	125 00	72 00
Milwaukee		ფრიი	60 nc
Detroit	285,000	8∞ oo	46 66
New Orleans		120 00	60 oc

The rate usually fixed in the ordinances of independent telephone companies in the U.S. has been \$48 and \$30. The tendency has been to increase these rates on the ground that they are unprofitable. The last important franchise granted to an independent company in the U.S. was at Kansas City, the rate being fixed at \$60 for business and \$48 for residence. Kansas City district includes the two cities of that name in Kansas and Mis-

### PURCHASING AGENTS' GUIDE.

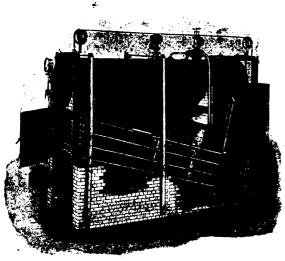
(Continued from third page of Cover.)

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Pumps Rice Lewis & Son	Toronto.
Rail Benders, Roller Montreal Steel Works	. Montreal.
Railway Supplies The Hiram L. Piper Co The N. L. Piper Railway Supply Co	Montreal, Toronto.
Ralis (Lew) James Cooper Drummond, McCall & Co. J. J. Gartshore. W. H. C. Mussen & Co.	Montreal. Toronto.
Rails (for relaying) James Cooper. J. J. Gartshore. T. A. Morrison & Co. W. H. C. Mussen & Co. Rice Lewis & Son. Jas. W. Pyke & Co.	. Toronto. . Montreal. . Montreal. . Toronto.

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Rivets, Boiler and Bridge Toronto Bolt and Forging CoToronto.
Roof Trusses Dominion Bridge Co Montreal.
Rope Rice Lewis & Son
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Safety Valves The James Morrison Brass Mtg. CoToronto.
Screws, Coach and Log Toronto Bolt and Forging Co
Semaphore Arms Acton Burrows Co
Semaphores The Hiram L. Piper Co Montreal. The N. L. Piper Railway Supply Co Foronto.
Shaking Grates Babcock & Wilcox (Ltd.)Montreal.
Shipbuilders' Tools and Supplies Rice Lewis & Son
Ship Lamps The Hiram L. Piper Co
Ships Canadian Shipbuilding Co
Shipbuilders and Engineers Canadian Shipbuilding Co Toronto.
Shovels  James Cooper Montreal. The Hudson's Bay Company Rice Lewis & Son Toronto.
Side Bearings Simplex Railway Appliance Co. Montreal.
Signal House Numbers Acton Burrows Co
Signals The Hiram L. Piper Co Montreal. N. L. Piper Railway Supply Co Toronto.
Signs Acton Burrows Co
Snow Ploughs Rhodes, Curry & Co
Spikes, Railway and Ship Toronto Bolt and Forging Co
Springs B. J. Coghlin & Co. Montreal. Montreal Steel Works Montreal.
Station Name Signs Acton Burrows Co
Steamboats Canadian Shipbuilding Co
Steamboat Signs Acton Burrows Co
Steam Couplers Safety Car Heating and Lighting Co New York.
Steam Shovels  James Cooper

Steam Traps
The James Morrison Brass Mfg. Co Toronto.
Steel
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W. Abbott Montreal. James Cooper Montreal. B. J. Coghlin & Co. Montreal. Wm. Jessop & Sons Sheffield, Eng.
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Wm. Jessop & Sons Sheffield, Eng.
Rice Lewis & Son
Steel Buildings Dominion Bridge Co. Montreal.
Dominion Bridge Co. Montreal.
Steel for Springs
Steel for Springs James Hutton & Co
Steel Plate
Jas. W. Pyke & Co
Steel Tyres
R I Carebin & Ca
B. J. Coghlin & Co. Montreal, James Hutton & Co. Montreal, Law Button & Co.
Jas. W. Pyke & Co
Stop Cocks, Iron and Brass
The James Morrison Brass Mfg. Co Toronto.
Structural Metal Work Dominion Bridge Co
Dominion Bridge Co
Jas. W. Pyke & Co
Superheaters Babcock & Wilcox (Ltd.)
•
Switches
Montreal Steel WorksMontreal
Switch Lamps
The Hiram L. Piper Co
The N. L. Piper Kailway Supply Co Toronto.
Switch Locks
The Hiram L. Piper Co Montreal.
Switch Ropes
The B. Greening Co Hamilton, Ont.
Switch Targets
Acton Burrows CoToronto.
Tanks and Tank Fixtures
Ontario Wind Engine and Pump Co Toronto.
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Telegraph and Telephone Office Signs
Acton Burrows CoToronto.
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Sonne Awning, Tent & Tarpaulin Co Montreal.
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B. J. Coghlin & Co
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Tollet Paper The Hudson's Pau Common
The Hudson's Bay Company
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Canada Switch and Spring Co. Montreal
lames Cooper Manager
Rice Lewis & Son
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Rice Lewis & Son. Toronto.  Montreal Steel Works Montreal.  W. H. C. Mussen & Co. Montreal.  The Hiram L. Piper Co Montreal.
Tramway Equipment
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W. H. C. Mussen X Co Montreal

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Valves, Iron and Brass	Toronto
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Valves, Rubber The Gutta Percha & Rubber M Varnishes	Ifg. Co. of 101
Varnishes McCaskill, Dougall & Co Vessels	Monu
Polson Iron Works	Torona
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Wheelbarrows	Montres
Wheelbarrows James Cooper Rice Lewis & Son Windmills	Toronto
Ontario Wind Engine and Pum	р Со.,
The Hudson's Bay Company	
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The B. Greening Co.	Hamilton, Toronto
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Wire, Copper	Montres
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	Acton Burrows Co	Lights, Dock
James Hutton & Co. Montreal	Drills	The Holland Portable Light Works. Montreal,
Las. W. Pyke & Co. Montreal. Rhodes, Curry & Co. Amherst, N.S.	W. Abbott	Lights, Portable
D:	Dry Goods The Hudson's Bay Company	The Holland Portable Light Works. Montreal.  Linoleum and Floor Coverings
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De (O)	Rice Lewis & SonToronto.  Hose, Air Brake and Steam	Office Signs Acton Burrows CoToronto
MOnt	The Gutta Percha & Rubber Mfg. Co. of Toronto.	Packing
	Hose, Fire	The N. L. Piper Railway Supply Co Toronto
The state of the s	The Gutta Percha & Rubber Mfg. Co. of Toronto.	Packing, High Pressure Sheet
Montreal.	Hese, Suction The Gutte Persha & Public May Co. of Terents	The Gutta Percha & Rubber Mfg. Co. of Toronto
Ceal Haulage Roma	The Gutta Percha & Rubber Mfg. Co. of Toronto.  Illustrations	Packing, Piston The Gutte Perche & Rubber Mire Co. of Toronto
Ceal Haulage Ropes The B. Greening Co. Hamilton Out.	Acton Burrows CoToronto.	The Gutta Percha & Rubber Mfg. Co. of Toronto
Concrete Greening Co	Injectors	Pinch Bars The Hiram L. Piper Co
W. H. C. Wixers and Book Crushers	The James Morrison Brass Mfg. Co Toronto.	The N. L. Piper Railway Supply Co Toronto
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	Acton Burrows CoToronte.	The Hudson's Bay Company
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Cross Arms, Top Pins & Side Blocks The Pirstbrook Box Co	Journal Bearings	Babcock & Wilcox (Ltd.) Montrea
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## Hudson's Bay Company

INCORPORATED 1670



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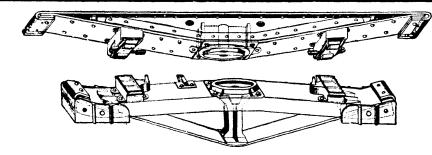
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