## New Steamboat for C.P.R. Kootenay Lakes Service.

Lakes Service. The C.P.R. recently awarded a con-rist for the construction of a vessel for its Kootenay Lakes service, to the West-ern Dry Dock and Shipbuilding Co. Port Arthur, Ont. The chief dimensions will be as follows: Length between per-pendiculars, 200 ft.; beam moulded, 40 ft. the hull will be of steel, with wrought iron stem, square stern with two longitudinal water tight bulkheads, the longitudinal truss and seven trans-verse bulkheads. Three steel inter-rhangeable rudders will be fitted in phice, and one spare one will be sup-pied. The deck will be of ¼-in. plate throughout, all flush rivetted, ¼-in. straps, all longitudinal seams single riv-etted and transverse seams double riv-etted. There will be openings from the phied is ins. above the main deck. The stem will be of wrought iron 1% by 7 ins. to rhangeable 3 by 3 by % ins. angles, angle strans, stiffeners flangend 2½ ins. spaced 3½-by ¼ ins. horizontal plating. The lon-plate and the tandem compound type with cylinders 16% and 35% ins. diffeners 3 by 3 by % ins. angles, angle will be of the tandem compound type with cylinders 16% and 35% ins. diffeners of be 25 ft. 8¼ ins. and they by 16 hs. stroke. Centre to centre of engines to be 25 ft. 8¼ ins. and they will be of ample strength or a working the more strength or a working is the more be 25 ft. 8¼ ins. and they will be of ample strength or a working the more be 25 ft. 8¼ ins. and they will be of ample strength or a working the more be 25 ft. 8¼ ins. and they will be of ample strength or a working the more be 25 ft. 8% ins. from the strength or will be of ample strength or a working the more be 25 ft. 8% ins. from the strength or the strength or a working the strength or a workin

# Stranding of the s. s. Earl Grey.

Following is a summary of the judg-ment delivered by L. A. Demers, Wreck Commissioner, concurred in by W. R. Lugar, Examiner of Masters and Mates, Halifax, N.S., and Capt. W. McKenzie, Pictou, N.S., Apr. 23, re the stranding of the Dominion Government s.s. Earl Grey at the River John in the North-umberland Straits, Apr. 17. The court finds that Capt. Angus Brown was unable accurately to deter-mine the speed of his ship, as the day

of the stranding was the first occasion that she had been navigated in clear water, following the loss of her propeller water, following the loss of her propellet blades, and that realizing the unrelia-bility of his calculation with regard to the speed he should have adopted all available methods of establishing his position. His action in proceeding at full speed in a dense fog, without sound-ing, despite the fact that the vessel was equipped with a mechine canable of equipped with a machine capable of determining the depth of water while proceeding at full speed, as well as his failure in insisting that a lookout be kept on the forecastle head, constitute, in the opinion of the court, grave errors of judgment. Further, it is held, that instead of relying almost entirely on as-sistance from other sources, he should sistance from other sources, he should have utilized the wire remaining unused in his hold, to lay a bower anchor, and in the event of the wire not being of sufficient strength to dislodge the vessel. it would have acted as a deterrent against the vessel being driven ashore by strong gales. The reason given by the captain for the non-usage of the wire, to the effect that the chain attach-ed to it combined with its own weight ed to it, combined wih its own weight, ed to it, combined wih its own weight, could not be sustained by the boats, can-not be accepted, for the mate in his evidence stated that he had procured spars from which to suspend the anchor between the boats to be utilized in haul-ing the vessel off. The captain's state-ment that he issued verbal orders for the speed to be reduced prior to the stranding remains uncorroborated, and the mode of procedure which he claims

to have followed cannot be countenanc-ed. The court therefore suspends the captain's certificate for three months from Apr. 22. The court also holds that from Apr. 22. The court also holds that the pilot, McGregor Fraser, whose li-cense extends from Pictou to Prim Point, was guilty of negligence through his failure to exercise necessary precauhis failure to exercise necessary precau-tions with regard to the navigation of the vessel, and a copy of the finding will be forwarded to the Pictou Pilot Com-missioners in order that they may deal with him. The second officer, F. P. Gal-lant, is considered to be insufficiently experienced in steamship navigation to occupy such a responsible position.

### Lake Vessel Insurance Rates.

Largely owing to the Canadian Lake Protective Association's very successful work last season insurance rates on the Great Lakes and contiguous waters have been materially reduced this year directly in the premium charged and indirect ly by the lowering of the valuation at which ships will be insured.

which ships will be insured. As a result of conferences between the Association's representatives and the underwriters the values have been reduced from £11 or \$53.50 a ton to £10 1s 2d or \$51 a ton. Last year the Great Lakes Protective Association, a United States organization, had a rate of  $5\frac{1}{2}$ % with U.S. insurance companies, while the Canadian owners were chargof 5  $\frac{1}{2}$  % with U.S. insurance companies, while the Canadian owners were charg-ed 5  $\frac{3}{4}$ % in the U.S. against 5  $\frac{1}{2}$ % by British companies. This year a list of preferred fleets will get a 5  $\frac{1}{4}$ % rate pro rata. On all vessels attaching on and after Aug. 1  $\frac{1}{4}$ % will be added, and to those attaching on and after Oct. 1  $\frac{1}{2}$ % will be added will be added.

Will be added. An agreed policy will be used as in previous years. The Association and the London underwriters will consult and agree as to form of protection and indemnity clause, in view of recent workmen's compensation acts.

#### Declaration as to Vessel Ownership.

The British Colonial Secretary has forwarded to the Governor General a copy of a letter issued by the Board of Trade on the subject of the alteration of the form of declaration of ownership Solution of the local sector of the Merchant Shipping Act, 1894, to be made on ap-plication for registry of a vessel owned by a body corporate, and requesting to know whether it would not be desirable to bring the new forms into use in Can-

tion of a paragraph to the effect that the company on whose behalf the de-claration is made 'has its principal place of business at — where all the im-portant business of the company is, in fact, controlled and managed at meet-ings of directors of the managers of the ings of directors of the managers of the company.' Recent experience has shown that foreign shipowners who are desir-ous of obtaining the advantage of the British flag for their vessels without re-linquishing their control of them, some-times attempt to effect their object by registering a company under the Brit-ish Companies Act and having merely a registered office in the United Kingdom without in fact transacting their busi-ness there; and the object of the altera-tion in the form is to check as far as tion in the form is to check as far as possible the registration of vessels owned by such companies.

The Inland Lines steamboat Empress of Midland, while running light from Midland to Cleveland, May 5, ran aground at Cabots Head during a fog and was released, May 7, and taken to Collingwood, where she was docked for repairs to about 20 plates.

#### Trade and Supply Notes.

The matter which appears under this heading is compiled, in most cases, from information supplied by the manufacturers of, or dealers in, the articles referred to, and in publishing the same we accept no responsibility. At the same time, we wish our readers to distinctly understand that we are not paid for the publication of any of this matter, and that we will not consider any proposition to insert read-ing matter in our columns for pay or its equivalent. Advertising contracts will not be taken with any condition that accepting them will oblige us to publish reading notices. In other words, our read-ing columns are not for sale, either to advertisers or others. or others.

The Preston Car and Coach Co., Ltd.. Preston, Ont., has been granted supple-mentary letters patent, increasing its capital stock from \$200,000 to \$500,000.

McKeen Motor Car Co., Omaha, Nebraska, has opened a central sales dis-trict office at 1451 Marquette Building, Chicago, Ill., with E. E. Wright as manager.

The Brown Hoisting Machinery Co.'s The Brown Hoisting Machinery Co.'s catalogue J 1912, covers illustrated de-scriptions of various kinds of hoisting and conveying machinery, including the Brown-hoist pillar crane, hand wrecking crane, mast jib crane, bracket jib crane, pillar jib crane, stationary bridge crane and transfer table. The illustrations include a two ton Brownhoist hand pillar crane, with 15 ft. radius, erected on a car for street railway work, for the Ottawa Electric Ry., a description of which is given in the Electric Railway Depart-ment of this issue.

The Robb-Brady Scotch boiler, which is manufactured at Amherst, Ñ.S., and South Farmingham, Mass., was tested recently at the sewerage pumping sta-tion, Farmingham, Mass. This boiler is a modified form of the standard Scotch marine boiler, it being claimed that the changes from the standard form greatly increase the circulation. The heat-ing surfaces are arranged as in the standard form and there are the same standard form and there are the same internal furnace flues, but there are two smaller shells, one above the other, in place of the large one, and an annular circulating passage is formed at the front end by the use of a plate beneath the front neck. This plate guides the cooler feed water around the shell, dis-charging it beneath the furnaces at the front. The water is heated while pass-ing around the furnaces and among the front. The water is heated while pass-ing around the furnaces and among the tubes, and enters the steam drum by the rear neck. In the test referred to the boiler was equipped with thermometer oil wells so that the temperature could be noted at four points, viz., at the top of the shell near the front end, at the top of the shell at the rear just over the combustion chamber, at the front and rear close to the bottom. We are advised that with water in the boiler at about 80° the fires were started and readings of every thermometer taken every five minutes. The temperature of the water at the top of the shell in-creased steadily until the boiling point was reached. At the bottom the tem-peratures increased very slowly up to the time the upper thermometer indicated the boiling point. Then the lower ther-mometer showed sudden rise, jumping to within a few degrees of those at the within a few degrees until 100 lbs. was reached, at which time practically no difference could be noted at the four points, showing that the circulation was positive and rapid. ing around the furnaces and among the

Railway	Lands	Patent	ed. — 1	Letters
patent were	issued of	during	March,	cover-
ing railway	lands	in M	anitoba	, Sas-
katchewan,			British	Col-
umbia, as f	ollows:-			ne arts
(1-1-1- N-1)	D			Acres.
Canadian North	ern Ry.			6.39
Canadian Pacific	c Ry		1	,352.938
Grand Trunk P	acific Ry.			20.43

Total ..... 1,379.758