

ing capacity of which is 71,000 tons, and by the 3rd of October the first barge was at Cornwall. The difficulty of this work can be realized when it is remembered how hopelessly most of the lake carrying fleet has during the last few years become tied up with banks, estates, ship repairs, etc. In all nine steamers at an average cost of \$50,000, were purchased, and thirty-five schooners at an average cost of \$20,000, or a total investment of \$1,150,000. Having bought the fleet the task had only begun. The problem was to get it to its destination, Newport News. Many of the vessels were too long for the locks of the Beauharnois canal, and the only alternative was to run the Cascade Rapids. This was not a very promising undertaking, in view of the fact that heretofore only three vessels had made the attempt, and in each case an accident was the result. The pilots assured Mr. Besse that a channel of seven feet could not be secured through the Split Rock Rapids. Investigation, however, led to the undertaking of the task, and to-day one half of the big fleet is safely harbored at Quebec without an accident. The pilots of the American Line, which plied between Montreal and Kingston this summer, have been doing the pilot work through the Cascades, and other pilots have been running the Split Rock Rapids. Four tugs belonging to the Donnelly Wrecking Company have been engaged in the work, the Chieftain and Rival working in the rapids, and the Reginald and Island Wanderer towing between Cornwall, Coteau and Ogdensburg. If the same good fortune and weather that have attended the enterprise so far, are continued, Mr. Besse thinks that \$60,000 will land the fleet at the Gulf by the 1st of November. Already this large draft from the great lake freighters has advanced rates materially, and it will probably exert a desirable influence over the shipbuilding trade this winter. Mr. Besse, who has been identified with shipping interests all his life, gave it as his opinion that the time foretold by Sir Wilfrid Laurier when 90 per cent. of the marine trade of all America will be carried down the St. Lawrence is not far distant. This year the Parry Sound Line will handle fifty million bushels of grain at a saving of over a quarter of a cent per bushel in freight rates.

#### ADDITIONAL ELECTRIC POWER FOR MONTREAL.

Contracts have been awarded in the scheme of the Shewanagan Water & Power Company for the development of the power of the St. Maurice River at the Shewanagan Falls, near Three Rivers, Que.

These contracts call for the construction of electric-generating plants, which will cost over \$1,000,000 and take over a year to complete. Besides supplying power for manufacturing purposes, it is proposed to run an electric line to Three Rivers, nineteen miles away, and the transmission of power to Montreal, eighty miles away, also is mooted. It is calculated that this can be done with a loss of less than 10 per cent. There is a drop of 169 feet in the river available at the spot selected for the electric-generating plant.

Without the aid of a dam, but simply by means of a long flume, the Laurentide Pulp Company has the command of 20,000 horse power.

When the works now nearing completion on the Chambly Rapids are put in operation, Montreal, with the Lachine Rapids works,

will have over 50,000 horse power available for use in the city without the consumption of a ton of coal, and, if the project of transmitting power from the Shewanagan Falls proves practicable, this may be increased almost indefinitely.

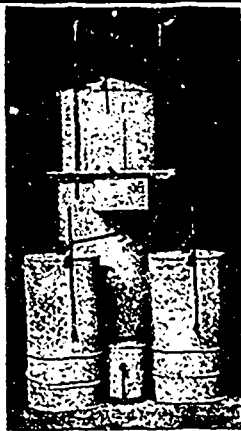
#### THE STURGEON FALLS PULP COMPANY.

The Toronto Globe makes the following explanation regarding the terms of the grant by the Ontario Government to the Sturgeon Falls Pulp Company:—

"The company agrees (1) to take up the property of the Sturgeon Falls Pulp Company and carry out and extend the objects of the original company; (2) to expend a million dollars in erecting paper mills, pulp mills, machinery, plant, etc., and utilizing the water power at Sturgeon Falls; (3) at least 240 hands will be employed, and at least 30,000 tons of paper turned out every year; \$250,000 of the million must be expended in the first eighteen months, \$500,000 within two years and the whole sum within three years.

By way of encouraging the establishment of the enterprise the Government sets apart

for the use of the company the spruce and jack pine on seventy-five miles of limits on the Sturgeon River and its tributaries. For all pulp timber taken from these limits the company is bound to pay the Government the dues which other persons who take pulp logs from Crown lands have to pay, which is at present twenty cents a cord, but this rate may be increased from time to time at the discretion of the Lieutenant-Governor in Council during the period of twenty-one years covered by the agreement. The company acquires no title to the land or pine timber thereon covered by the concession, nor is the land withdrawn from settlement. All that is aimed at in setting it apart is that the company in making so large an investment may be secured in a supply of pulp-wood to keep its mills running. The agreement with the Sault Ste. Marie Company, which was approved by both sides in the Legislature, served as a model for this one, although in one or two respects this is more rigorous. For example, the dues of twenty cents a cord, which are also imposed on the Sault Ste. Marie Company, are in its case unalterable for twenty-one years. In the case of the Sturgeon Falls Company they may be increased whenever it is thought



## The "SAFETY" ACETYLENE GAS MACHINE

THE MOST SIMPLE AND THE SAFEST MACHINE MADE.

It does what other machines cannot do. It generates Gas Cool. It washes and purifies the Gas twice. Automatically removes the Ash from the Carbide. Leaves the Ash perfectly dry and thoroughly exhausted.

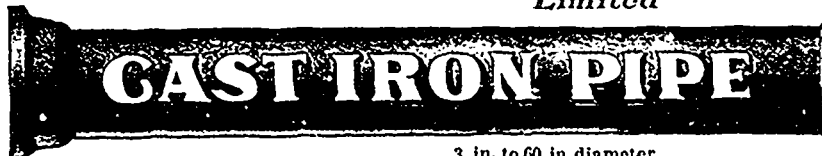
EVERY MACHINE GUARANTEED.

Manufactured by.....

THE SAFETY LIGHT & HEAT CO., Dundas, Ont.

Proprietors and Sole Manufacturers for the Dominion of the celebrated CLIFF-WARDLAW GENERATORS.

ALEX. GARTSHORE, President. J. G. ALLAN, Sec.-Treas. JAS. THOMSON, Vice-Pres. and Gen. Mngt.  
THE GARTSHORE-THOMSON PIPE & FOUNDRY CO.  
Limited



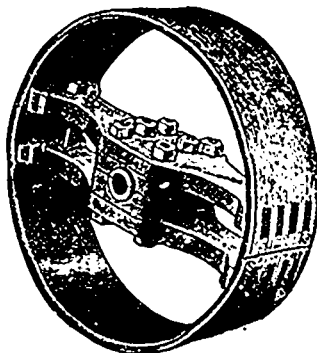
3 in. to 60 in. diameter.

For Water, Gas, Culverts and Sewers

Special Castings and all kinds of  
WATER WORKS SUPPLIES

FLEXIBLE AND FLANGE PIPE.

HAMILTON, ONT.



BENT RIM... WOOD SPLIT PULLEYS,  
(REID'S PATENT).

The Strongest, Lightest and Best Belt Surface in the World

No Glue, no Nails in Rim like Segment Rim Pulleys, to be affected by Steam, Dampness or Moist Temperature.

EVERY PULLEY GUARANTEED.

The Reid Bros. Manufacturing Co., of Toronto,  
257 King St. West, Toronto.