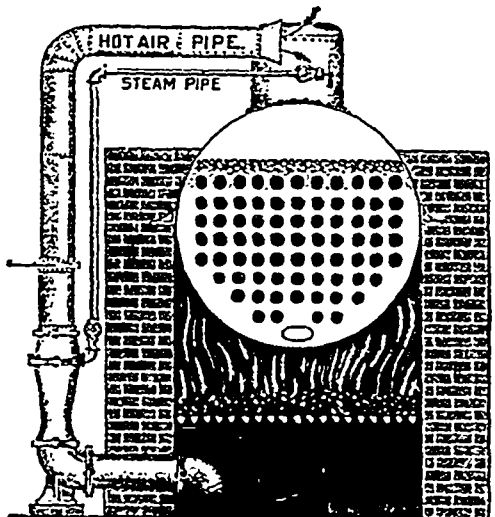


minute. Among the banks which this company are now fitting up are the banks at Pembroke and Smith's Falls. It may not be generally known that for some time this company have had a reputation beyond the confines of the Dominion, and have shipped goods regularly to Great Britain and some of the colonies. They have just fitted up the Commercial Bank of St. John's, Nfld. The selling agents in Toronto for this company are the Toronto Furniture Supply Co., King street west, who are this month opening up an office in Montreal in the premises occupied by the late Henry Nightingale, 7 to 11 St. John street.

ONE of the finest exhibits at the Montreal Exhibition was the one made by Robin & Sadler, Montreal, who showed what is said to be the widest leather belt in use in the world. It is 53 inches wide. Another interesting oak tan belt was that made for the St. Jean Baptiste Electric Light Company, 125 feet in length and 46 inches wide. This firm also exhibited a belt oil or dressing which, by rendering the leather soft and pliable, goes a long way towards causing it to come in close contact with the pulley, without saturating it with greasy gum. This firm was also well represented at the Toronto Exhibition.

EARLE'S STEAM AND AIR INJECTORS AND EXHAUSTERS.

A new invention, which should be of interest to engineers, firemen, and all interested in steam plants, is Earle's Steam and Air Injectors, Exhausters, etc. Fig. 1 shows the machine (Combined Air Injector and Exhauster) set in the side wall of a brick set tubular boiler, with the air pipe running over the top of boiler to take



the hot air and inject it underneath the grate bars. The ash-pit doors are hermetically closed, and no air is admitted to the furnace except that supplied by the machine. The commingled steam and air promotes better combustion than the air alone, and has a beneficial effect on the grate bars. These machines are being extensively used throughout the Dominion, as well as in the United States. They make very little noise in working, and have many advantages over fans and other devices, and are of great service where there is poor chimney draught and for waterworks. They are of special benefit when the fire has been cleaned and the steam dropped, as they will cause the steam to run up on the gauge at once. They are independent of machinery, and are of great service on boilers used for steam heating buildings. With them the waste coal, screenings, etc., can be used, thereby making a great saving in the cost of fuel, which is of great importance, as economy in fuel is of the utmost importance to the engineer as well as the proprietor

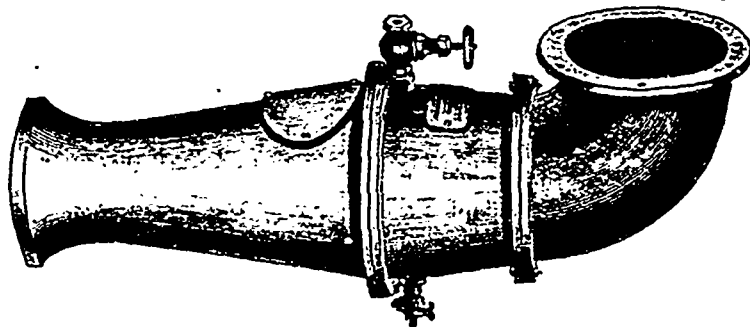


FIG. 2.—HORIZONTAL COMBINED AIR INJECTOR AND EXHAUSTER.

These machines can be arranged to suit any style of boiler, and will be found an excellent machine for removing the vapor from drying rolls in woolen mills, paper mills, etc., working gas, producers making fuel, gas, etc.



FIG. 3.—UPRIGHT COMBINED AIR INJECTOR AND EXHAUSTER

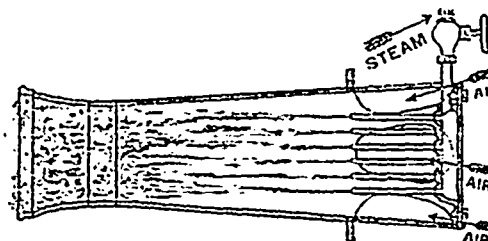


FIG. 4.

SECTIONAL VIEW OF STEAM AND AIR INJECTOR.—These machines are made to give a good, strong blast, and make very little noise in operation; and where little room can be spared, they can be used without any trouble, as they project out from the boiler only eight inches. The steam nozzles, in all the machines, are made of brass, and are arranged so they can be readily and easily examined. For fuller description, any one addressing the patentee and manufacturer, S. R. Earle, Belleville, Ont., or 110 North Fitzhugh St., Rochester, N.Y., will be furnished illustrated catalogue.

It will interest our readers to know that this invention, the product of a Canadian brain, was shown at the World's Fair, where it not only attracted a great deal of attention from American engineers, but carried off the diploma awarded for such appliances.

A PROSPEROUS ELECTRIC LIGHT COMPANY.

It is less than six months since the St. Jean Baptiste Electric Light Company was formed, taking over the business of a private firm in the St. Jean Baptiste ward of Montreal. When the new company was formed, O. Morin was chosen president, and S. Z. Leboeuf general manager, and under their able auspices the company has made remarkable progress in the extension of their incandescent lighting work through the northern and central part of Montreal. The amount of this extension has, in fact, gone beyond their present capacity, and they are now increasing their power to keep up with this development. Three new engines of 500 h. p. each have been contracted for, and one of these has this month been installed. When these new engines are erected the company will have five in all, of an aggregate capacity of 1,750 horse power, and capable of running 17,500 lights. They will then have seven dynamos running, and all these improvements are to be completed this winter. The works of the company are situated at the corner of Rachel and Montain streets, where the company have a large block of land, to which they have added another piece of ground to be used at an early date in the erection of a power house to run independently of the lighting system. The smoke stack of the lighting house towers to a height of 126 feet, and the main engine room is 140x94 feet. The new dynamos