

loading or unloading irrespective of the stages of the tides. A concentrator will also be erected at the Beach, the ore being brought from the mine by means of an aerial tramway three and a half miles long.

The B.C. Standard Mining Co., will enlarge the carrying capacity of the aerial tramway from their Hunter V. mine, situate near Ymir, B.C., so as to admit of the daily output of ore being increased to about 200 tons.

It is expected that the Rossland Power Co.'s new concentrator at Trail, B.C. will be completed shortly. The mill will have an initial capacity of 200 tons per 24 hours, but the arrangement is such that by duplicating certain machines the capacity of the works can be nearly doubled without enlarging the present buildings.

The City Engineer, Vancouver, B.C., is preparing plans for seven new septic tanks, to cost about \$20,000.

The Kootenay Engineering Works, have installed a six foot lathe, boiler-rolls and a key-seating machine at their Nelson, B.C. plant.

Manager Boscowitz, of the Victoria theatre, Victoria, B.C., has had plans prepared for interior improvements to cost \$30,000.

A large distillery will be erected at a cost of \$75,000, at Sapperton, near New Westminster, B.C. Wm. Braid and Robt. Kelly, Vancouver, B.C. are interested.

The White Bear Co., Rossland, B.C., have placed an order with the Canadian General Electric Co., for two 75 and one 30 h.p. motors. The machines are to be used in the company's Elmore oil concentrator.

A concentrator and smelting plant will be erected at the Velvet and Portland mines, Rossland, B.C.

A new custom house will be erected at Nanaimo, B.C.

A matter of great importance is the proper ventilation of kitchens in hotels and restaurants. Not only is it important to the welfare and comfort of the chefs, but very often to the other occupants of the building, as it often happens that odors from the kitchen escape to other parts, very often up through the elevator shaft to rooms on the upper floors. Usually the kitchen is low studded and the odors arising from cooking makes the room almost uninhabitable, especially in the warm weather. It has been found that natural draft through brick chimneys is not sufficient to take away all the odors without leakage through other parts of the building. Proper ventilation can only be obtained by the employment of some artificial means which will always be entirely independent of the weather. The air must be exhausted and fresh air take its place. This is readily accomplished by the Sturtevant fan system of ventilation. The kitchens of the hotels in New York, such as the Waldorf-Astoria, and many others throughout the country are ventilated by the Sturtevant fan system. In one case, it was found by test without the use of the fan system when the thermometer was 90 degrees outdoors the tem-

perature within 6 feet of the kitchen ranges was between 120 degrees and 135 degrees. After the fan was in operation with an outside temperature of 90 degrees the temperature in the kitchen the same distance away from the ranges was only 92 degrees.

Among the interesting exhibits connected with the Department of Mines and Metallurgy at the St. Louis Exposition will be a coal-testing plant operated under the direction of the United States Geological Survey. The tests will be conducted not for the purpose of determining the relative value or merit of different coals, but primarily for the purpose of demonstrating the most economical methods for their utilization. The work possesses a peculiar interest from the fact that the United States government has not heretofore attempted to make a uniform and comprehensive examination of the mineral fuels of that country.

The Chicago Pneumatic Tool Co., Chicago, Ill., inform us that their President, Mr. J. W. Duntley, who is now in London England, has reported having booked orders for 275 pneumatic machines of different sorts, 50 of them being rock drills to go to Johannesburg, South Africa, 25 are compressors for European concerns, 35 railway speed recorders for Germany, also 9 large D. S. C. compressors for the Pennsylvania Railroad. Their compressor factory at Franklin, Pa., is running to its fullest capacity on compressor work and is barely able to keep pace with the rapidly growing business in this line; and their tool factories at Cleveland, Ohio and Detroit, Mich., are running to their fullest capacity to meet the demands made upon them. The business the company are receiving certainly seems to indicate that business in a general way is improving wonderfully.

The authorities in charge of the immense 300,000 h.p. plant at the St. Louis Exposition, have installed a large No. 3 Cross Oil Filter, manufactured by the Burt Mfg. Co., Akron, Ohio. It is entirely fitting that the oil filter that is recognized as standard by the United States and British governments, and by nearly every other prominent country on the globe, should receive the same recognition from the Exposition managers. Those who visit the fair and are interested in the mechanical features of it should take the opportunity of seeing the Cross Oil Filter in practical operation. Besides the filter used by the Exposition authorities, it has also been ordered by the C. H. Bradley, Co., Pittsburg, Pa., the Buckeye Engine Co., Salem, Ohio, and the De Laval Steam Turbine Co., Trenton, N.J. in connection with their exhibits.

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FUEL.

For names of fuel dealers see "Coal and Coke" in Classified Index.

Among the prominent fuel concerns who have developed considerable Canadian trade is the Ohio & Michigan Coal Co., of Detroit, Mich., of which Mr. J. P. Cumiskey is general manager. The company operate five mines in the Ohio coal fields and handle considerable Pennsylvania coal, the latter being shipped to Canada via Buffalo, N.Y. The Canadian shipments from their Ohio mines are made via Detroit. They are also important operators in the lake trade and are large shippers of coke. Mr. Cumiskey has been identified with the Canadian coal trade for about 15 years. Mr. John H. Alexander, of Windsor, Ont. is Canadian sales agent for the company.

At a recent meeting of the committee of the Toronto branch of the Navy League attention was called to statements made by Capt. Otto Sverdrup, in his recent publication, "New Land." Capt. Sverdrup, who had been with Nansen in the latter's search for the pole, recently made a voyage up Baffin Bay to the islands lying west of Greenland, and north of Canada, known as Ellesmere Land. In his account Capt. Sverdrup incidentally reports the discovery of extensive coal deposits there.

In Mr. Fielding's proposed tariff changes the needs of the Ontario oil refiners are met by a reduction of one half in the duty on crude oil, while the Ontario oil producer is compensated with a bounty on his production. The price of oil should fall at once to the consumer. Crude oil, or fuel oil, is an important item in the expense of many of our Ontario and Western manufacturers, and so is bituminous coal; but Mr. Fielding does not cheapen the cost of coal to Ontario consumers.

Tenders were opened last week for coal for the city of Toronto other than that for waterworks, and the contract was awarded to the Standard Fuel Co., as follows: Scranton grate, \$6.03; large egg, stove and nut, \$6.24; Pittsburg and coarse slack, \$2.98; Straitville, \$4.09; Blossburg, \$5.30; long hardwood, \$7.30 per cord; cut and split, \$7.80; long pine, \$5.60; cut and split, \$6.

As a result of the tariff changes, the price of coal oil to retailers has been reduced 2½ cents per gallon in Montreal and some other places.

A public meeting was held at Faneuil Hall, Boston, Mass., a few days ago at the instance of President H. M. Whitney, of the Chamber of Commerce, on the petition of 35,000 business men to pass resolutions favoring reciprocity with Canada. Action by congress on this matter is desired by the Massachusetts business interests in order that Nova Scotia coal may be imported to better advantage.

William Johnson & Sons, of Leeds, England, will exhibit a complete briquette plant in full operation in connection at the St. Louis Exposition. The process is intended to illustrate the possibility of utilizing bituminous, semi-anthracite and

MANUFACTURER,