

coal in large quantities to absorb and retain the liquid slag? and, second, how does it happen that only on two occasions has the production of this slag-saturated coal been observed? The following particulars regarding the furnace are data that must be taken into consideration in any theory put forth to explain the very peculiar behavior of the charcoal under consideration: Four  $3\frac{1}{2}$  tuyeres are used. The average pressure of blast is about  $5\frac{3}{4}$  lbs.; the average temperature of blast, 900 deg. F. The quantity of air, as a rule, is 2,638 cubic feet, but at times it has run to as high as 2,287 cubic feet to the minute; cubical contents of furnace from stack-line down is 1,264 cubic feet.

## Industrial Notes.

A NEW grist mill is being built at Comber, Ont.

NEW machinery will be placed in the flour mills at Warsaw, Ont.

THE suspension bridge, St. John, N.B., is being repaired and part of the structure renewed.

ROBT. WHITELAW, of Woodstock, Ont., is building a 75-bbl. flour mill at Comber, Ont.

SANDFORD'S flour mill, Fenelon Falls, Ont., is to have new machinery added at once.

R. GRAHAM, foundry, Ottawa, Ont., meets his creditors with an apparent surplus of \$11,000.

ST. JOHN, N.B., is examining into the merits of rival fire engines, with a view to purchasing.

F. A. CLARKE, of Berwick, N.S., is building the engine-house for the Coast Railway at Annapolis, N.S.

THE Westville, N.S., Foundry Co. will put in some new machinery and build a warehouse at once.

THE Ottawa *Journal* says that the Ottawa Saw Works (J. Bingham and P. M. Feeny) are to be enlarged.

THE Niagara Central Railway has begun putting in the siding for the acetylene gas works at Merritton, Ont.

THE Hamilton Iron and Steel Co. has been compelled to cease smelting for a time, to make repairs to the plant.

C. B. CHAPPELL, architect, Charlottetown, P.E.I., is in charge of the erection of the new hospital at Glace Bay, C.B.

A NEW saw-mill is to be built at once by Messrs. Bostwick on the site of the one recently burned at Big Salmon River.

JACKSON, COCHRANE & Co., of Berlin, Ont., have bought the wood-working plant of the Smythe Co., of Strathroy, Ont.

W. H. LAMBLY, secretary-treasurer of Inverness, Que., invites tenders for two new steel bridges to be erected in that municipality.

GANANOQUE Wheel Works Co. was offered \$40,000 bonus to remove, but the shareholders have decided to remain in Gananoque, Ont.

A PERMIT has been issued to the Hamilton and Toronto Sewer Pipe Co. for rebuilding a kiln at its works on Jackson street, Hamilton, Ont.

THE Dominion Cold Storage Co. has secured a lease of the old drill shed and grounds in Toronto, and will re-establish an extensive plant at an expense of \$150,000.

THE town of Perth, Ont., has not got its waterworks yet; the company now wishes to substitute increased pumping power for a stand-pipe and smaller mains on the side streets.

SMITH'S FALLS, ONT., had a strike recently in the Malleable Iron Works on account of a reduction of wages. The matter was amicably settled, and the men resumed work.

THE by-law to grant a \$5,000 bonus to an Ottawa man to establish a grist mill in Kerseyville, Ont., was voted on in the latter place a short time ago, and was carried by a majority of ninety.

EXTENSIVE additions to the apparatus of the Winnipegosis salt works are being made by Paul Woods, the proprietor, who intends developing the industry as fast as possible.—*Dauphin Pioneer Press.*

JOHN CROWE, of Montreal, has placed his order with the Babcock and Wilcox Company, Board of Trade Building, Montreal, for one pair of their 250-horse power improved all wrought steel high pressure water tube boilers.

THE Central Bridge and Engineering Co., Ltd., Peterboro', Ont., has been awarded the contract for the York street bridge, Toronto, and has other contracts on hand which will keep the works rushed for the next six months.

E. BEAULIEU, Pembroke, Ont., is building a grist mill. Work begins this month.

THE Ontario Rolling Mill, of Hamilton, Ont., is to put in a steel plant to employ 150 men.

THE machinery of the cotton factory at Dundas, Ont., is being broken up and sold for scrap iron.

THE Central Ontario Ry. is running a siding into the yards at Weddell's Foundry, at Trenton, Ont.

THE town of Renfrew, Ont., together with the adjoining municipalities, proposes to build a hospital.

NORTH BAY, ONT., is to have a sash and door factory; Mr. Johnson, of Bracebridge, is to build it.

THE Brandon Machine Works Co. have the contract to build four boilers for the McRobie chemical engines.

THE Port Credit Pressed Brick Company, of Toronto, and Port Credit, Ont., has sold out to Mrs. H. M. Parker.

CURRIE & Co., Eel River, N.B., are running their new sawmill, which was equipped with a power plant by the Robb-Armstrong Co.

THE Portland Rolling Mills Co. (formerly J. Harris & Co.), St. John, N.B., are well engaged at present and 130 men are employed.

THE village of Westmeath, Ont., will give a bonus of \$1,000 to Tucker & Hodges to rebuild their saw mill, recently destroyed by fire.

THE machinery and manufactured stock of the Safety Barb Wire Company has been sold to the Ontario Lead and Barb Wire Company, Toronto.

APPLICATION is made for a Dominion charter for a company to construct a foot passenger, vehicle and trolley bridge over the Niagara at Fort Erie, Ontario.

AN explosion of gas in the boiler rooms of the distillery at Walkerville, Ont., recently injured David Gross, and did severe damage to the boilers and building.

ASSINIBOIA, MAN., advertises that it will give a bonus of \$5,000 to a 75-barrel flour mill at Headingly, on the Manitoba South-Western Railway and Assiniboia River. N.S.

CONTRACTOR McMANUS, of Memramcook, N.B., who has the contract for building the Mill Creek bridge at Campbellton, N.B., expects to have the new bridge completed in July.

JOSEPH BORGUE, of Hull, Que., contractor for the Dominion Reformatory at Alexandria, Ont., has a large force of men at work in the quarries and is excavating for the foundation.

H. P. DAVIES, C. P. Miller, Toronto; C. Sparks, Ottawa; Emilie Davies, Toronto; H. Brumell, Toronto, apply for a Dominion charter as the American Tire Co. Capital, \$25,000.

J. MCPHERSON, W. A. Gibson, and W. W. Stuart apply to the Governor-General-in-Council for leave to irrigate 22,000 acres of land on the Elbow River, township of Meridian, N.W.T.

THE smelting works at Tilt Cove, Newfoundland, were recently closed, owing to the boilers having got out of repair; engineers A. Bartlett and T. Davis put the plant in running order in six days.

H. HOGAN, J. Barsalou, A. Desjardins, J. G. Laviolette, M. Barsalou, Montreal, apply for a Dominion charter as the Dominion Glass Co. to manufacture glass and glassware in Montreal. Capital, \$20,000.

ROBT. HUNTER, formerly employed by the C.P.R. at Almonte, Ont., has formed a partnership with John Carnochan to carry on the business of the Sparham Cement Roofing Co., in Ottawa, Hull and Aylmer.

H. S. HOLT, A. A. Thibaudeau, W. Strachan, A. Brunet, F. L. Beique, of Montreal, are applying for a Dominion charter as the Montreal Construction Co., Ltd., to build railways, bridges, etc. Capital, \$500,000.

W. M. MILLER, of Newark; J. Hume, W. Craig, S. Paterson, and H. C. Paterson, of Port Hope, Ont., are applying for a Dominion charter as the Port Hope Preserving and Canning Co. Ltd. Capital, \$20,000.

R. MACGREGOR, A. G. Gourlay, R. B. MacGregor, R. M. Hamilton, J. F. MacGregor, of Galt, apply for a Dominion charter as the MacGregor-Gourlay Co. (Ltd.), to manufacture wood-working and other machinery. Capital, \$300,000.

R. C. ADAMS, St. C. MacDougall, A. Paterson, P. Lyall, C. Cushing, W. Strachan, J. P. Clegborn, S. C. Stevenson, J. W. Withell, J. Withell, George Dawson, Montreal; J. C. Haynes, Boston, apply for a Dominion charter as the Midway Co., Ltd., of Montreal, to carry on a general mining, smelting, construction, manufacturing and transporting business. Capital, \$60,000.