

### A Large Canadian Industry.

We show a cut this week of one of the largest industrial establishments in Canada. We refer to the factory of the Watrous Engine Works Co., located at Brantford, Ontario. This is not an industry of mushroom growth. Like many other important establishments in the country, it had a humble beginning—how humble will be indicated by the cut showing the factory as it appeared in 1844. A comparison of the factory in 1844 and the extensive works of to-day, tells at a glance a tale of progress which may well be a matter of pride to those who have been instrumental in building up this great industry.

The business was established in 1844, under the name of Ganson Watrous & Co., the late Chas. H. Watrous being one of the founders. Brantford was then a village, and the country around was a vast pine forest.

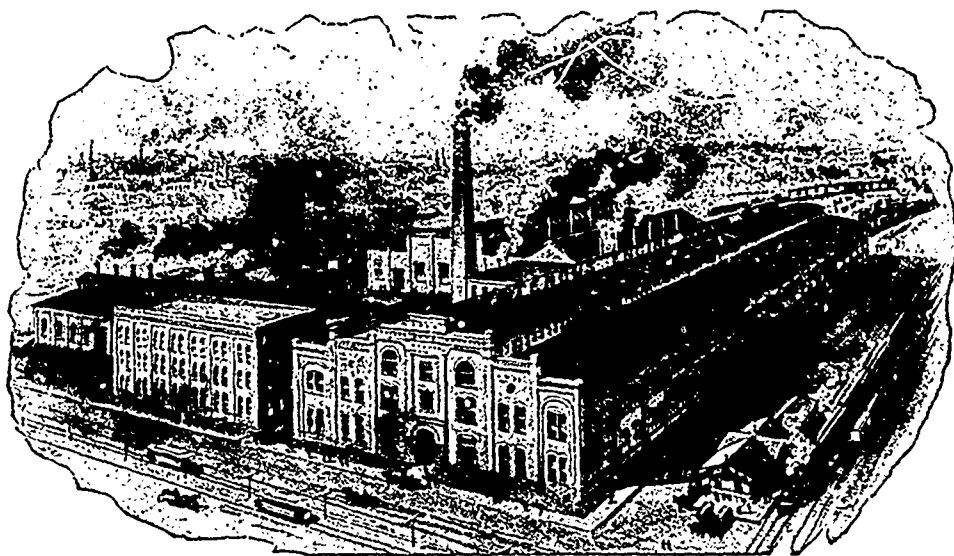
large cupolas, three cranes and a most complete complement of every thing needful. The machine shop is 120 by 300 feet. A feature of this department is the electric crane, with a clear lift of forty feet. The boiler shop is 80 by 120 feet, and also has an immense 20-ton travelling crane, running the full length of the shop. The power house is 40 by 40 feet and the boiler house is also 40 by 40 feet. These are fitted with a 150 horse power automatic engine, and two 150 horse power boilers, which latter also furnish steam for smaller engines, steam hammers, heating, etc. In the engine room is the dynamo for supplying light for the works. The smith shop is 40 by 60 feet, containing 16 forges, steam hammers, rivet and bolt machines, etc.

This is of course but the briefest outline of the different departments. The factory has excellent receiving and shipping facilities. Switches from the railways run to the coal, iron and lumber sheds. Tracks also run into the machine and boiler works, where cars can be loaded with the heaviest materials quickly and easily,

cludes the manufacture of mining machinery of all kinds. The rapid development of mining in Canada, and undoubted great future of the country in mining will soon make this department one of the most important features of the business.

The aim of the Watrous Engine Works Co., has always been to turn out a high class of goods—not cheap goods. The success of the company has proved that its policy is the correct one. The company has done a great deal to make Canada known throughout the world, and it is not an exaggeration to say that the manufacturers of this factory are sold all over the world. Such is practically the case. The success of the industry has not rested on any tariff or trade policy of the country, for the business has gone on extending alike under revenue and protective tariffs.

The company opened a branch in Winnipeg in 1882. A branch was established at St. Paul, Minnesota, in 1886, for the manufacture of fire engines, fire apparatus, gasoline engines and friction grip pulleys. The Winnipeg branch is not a manufacturing



FACTORY OF THE WATROUS ENGINE WORKS CO., BRANTFORD, CANADA

The first plant manufactured was the old upright saws, but a few years later the plant for the first circular saw mill built in Canada was turned out at these works. Band saws are now largely made at these works.

The industry has grown, year by year, and additional land was purchased adjoining the old property and new buildings erected. The present works, shown in the accompanying engraving, were erected in 1895, at which time a new site was purchased, and the new factory was occupied in the following year. The business of the company last year showed an increase over any previous year, notwithstanding that 1897 was generally a poor business year in this country.

The engineering and drafting departments are important features of the business, and the best skill obtainable is employed in these departments. The pattern building is 80 by 60 feet, three storeys high, and is fire proof. Here are stored all patterns, numbered and catalogued so they can be quickly referred to. The iron foundry is 120 by 180 feet, equipped with two

by means of the lifting and travelling cranes.

The manufacture of steam fire engines, water towers, aerial ladders, hose wagons, and fire appliances is a special department of the business. Engines and boilers of all kinds, stationary, portable, traction, etc., are made in great variety and for every class of work. Saw mill machinery is another important line which is handled on an extensive scale by the company, including equipments for the smallest portable mills up to mills of a capacity of 200,000 feet daily. Pulp making machinery, veneer and wood-working machinery, burners, tank and flume work, shingle, bath and wood machinery, wood printing machines, conveyors, gearings, shaftings, bearings, heaters, pumps, injectors, planing machines, etc., rock crushers, knife grinders, brick and tile machinery, grain grinders, flour mill and grain elevator machinery, include some of the numerous lines of machinery made at the factory. A new and important branch has recently been added, which in-

branch, but a large business has been done here in handling the manufactures of the company, and a considerable stock of supplies is carried here. The Winnipeg business has been under the management of Mr. G. W. Erb since 1886, who has ably conducted this end of the business of this great industrial concern.

The July Canadian Magazine is very entertaining. There are four stories, two of which are by Canadians. Miss Jones, gives her second article on "Swiss Life and Scenery." Sir John G. Bourinot writes on "The Fathers of Responsible Government," with portraits of Lord Durham, Lord Elgin, Louis J. Papineau, William Lyon Mackenzie, Joseph Howe, Robert Baldwin, Sir Francis Hincks, Sir L. J. Lafontaine, Sir John Harvey and Lord Sydenham. A. C. Casselman writes on "The Postage Stamps of Canada," and James Hedley another on "Bank Returns; What They Teach." E. Nicholls, of Vancouver, tells many amusing stories of the late Chief Justice of British Columbia, Sir Mathew Baillie Begbie, etc.