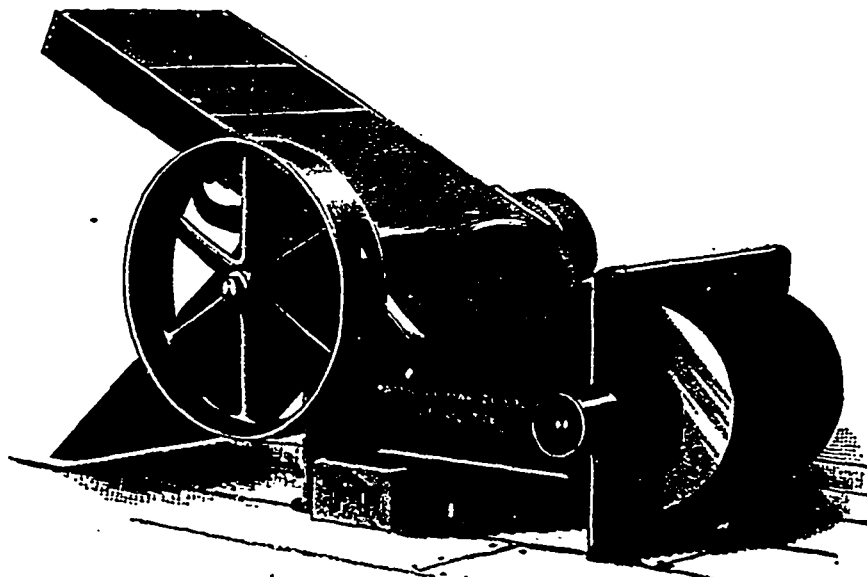


WILLIAM FREDERICK MACLAREN, eldest son of Major MacLaren, of Hamilton, Ont., has finished his study at Cornell University, and now has the degree of Mechanical Engineer.

GEORGE BRUSH, of the Eagle Iron Foundry, Montreal, was on the evening of the 29th ult. thrown out of his buggy, owing to a collision with an electric car. He was at once removed to the general hospital, where his injuries were attended to. We are glad to be able to state that Mr. Brush, a day or two later, had so far recovered as to render a further stay at the hospital unnecessary, and he was taken to his home.

#### THE WOODRUFF PATENT SEPARATING MACHINE.

The Woodruff Patent Separating Machine here illustrated can be set up and started by any ordinary mechanic. It can be successfully operated by any laborer who is intelligent enough to ship a belt, use an oil can and shovel the refuse into the screen or hopper. If you are not equipped with cinder barrel, the saving effected by this machine in connection with such a barrel will pay for both in a short time, in spite of present low price of iron. It is an ingenious combination of vibrating screen and fan for extracting all shot and other small iron from foundry refuse. It occupies ground space about 4 x 8 feet, requires about 1½ to 2 H. P. to drive it, and can be set up anywhere, in doors, or out under shed, where power may be had, preferably near the cinder barrel. Best results are obtained by having openings in cinder barrel 1-4 or 5-16 inch. A barrowful of refuse will pass through the separator in three or four minutes, all the iron being deposited in box provided for it, and all other materials thrown to rear of machine.



WOODRUFF SEPARATOR.

The inventor and patentee of "The Woodruff Patent Separating Machine" has sold a large number—nearly two hundred—solely by personal visits and representation. The Hamilton Facing Mills Company, Hamilton, Ont., the manufacturers, have received many letters commending this machine from malleable iron manufacturers, stove manufacturers, hardware manufacturers, and general iron foundries.

#### DOBBIE & STUART.

As mentioned in a recent issue, the firm of Dobbie & Stuart, the well known founders and machinists, of Thorold, Ont., have not only built up a large business in Canada, but have made their enterprise felt on the other side of the line, where they have a foundry and machine shop at Niagara Falls, N.Y. From a recent issue of a Niagara Falls paper, we learn that their plant on the New York side of the river is situated close to the N. Y., L. E. & W. R., and their establishment consists of five separate buildings. The machine shop is a two-storey building 40 x 60 feet: another building is devoted to forging and blacksmithing work, and another to the foundry, and still another to machine work. Steam being the motive power, there is a large engine-room and boiler-house; but it is proposed to introduce electricity. The foundry alone, when working to its full capacity, will employ 50 hands. This firm make a specialty of contractors' plant, such as derricks, dredges, hoisting engines, etc.; but they do general mill and machinery work, both at their large Thorold establishment and in

their new American works, and have an excellent reputation for high-class work. They have added to their plant a Poole grinder for the regrinding of paper calendar rolls, etc. This machine will grind any sized roll from a flour mill roll to the largest size of paper mill roll now in use, which is 136 inches long.

## The Patent Review.

- 45,041 Wm. P. Bement, Worcester, Mass., die for rolling screw threads.
- 45,043 Henry G. Bentley, Philadelphia, Penn., electric cable.
- 45,044 Peter V. Pettier, Ottawa, machinery for rolling glass.
- 45,046 Ewald Bellingrath, Dresden, Germany, apparatus for the propulsion of ships.
- 45,047 Frederick H. Heath, Minneapolis, Minn., means for manufacturing rail joints.
- 45,048 John Pratt, Chatham, Ont., excelsior cutting machine.
- 45,051 John Evans, Toronto, Ont., car coupler.
- 45,053 Benjamin A. Burgess, Hamilton, Ont., lubricator.
- 45,054 George W. Mallory, Harwich, Ont., door spring.
- 45,055 Lafayette D. Railsback, Indianapolis, Indiana, rotary plough.
- 45,057 Wm. Taylor, Carman, Man., threshing machines.
- 45,059 Fessender C. Butterfield, Minneapolis, Minn., method of and apparatus for separating volatile metals from other commingled gases.
- 45,064 Wm. H. Bastin, Murphysboro, Ill., method of measuring vessels.
- 45,065 Copran J. Hall, San Francisco, Cal., hydraulic elevator.
- 45,067 John Bell, Toronto, Ont., wheel.
- 45,071 Milton Walter Keene, Dallas, Texas, furnace.
- 45,072 Harry Ellis, St. Catharines, Ont., art or process of manufacturing leather ropes and belts.
- 45,075 Isaac Miles, Hamilton, Ont., automatic fire escape.
- 45,080 Septimus R. Campbell, Toronto, Ont., boiler for ranges.
- 45,081 Samuel Otis Jones, Stillwater, Minn., piston valve.
- 45,083 Mark W. Dewey, Syracuse, N.Y., electric heating apparatus.
- 45,084 Benjamin Hewitt, Birmingham, England, machinery for the manufacture of shells, vessels and tubes.
- 45,085 Charles W. B. Lyall, Toronto, Ont., pilot for street railways.
- 45,087 Hugh Johnston, Toronto, Ont., plough.
- 45,090 Wm. A. Sims, Stonewall, Manitoba, seed drill.
- 45,091 Thomas Gill, Clerkheaton, York, England, reflector for gas.
- 45,094 George W. Robertson, Haverstock Hill, England, station indicator.
- 45,095 James H. Paterson, Ingersoll, Ont., screw cutting lathe.
- 45,097 Walter H. Scott, Toronto, Ont., electric railway brake.
- 45,098 Orvin B. Peck, Chicago, Ill., ore separator.
- 45,099 George W. Lewis, Chicago, Ill., gas engine.
- 45,102 Robert Learmonth, Buffalo, N.Y., apparatus for supplying purified water to locomotives.
- 45,103 David Macdonald, Toronto, Ont., process of making air-tight covers for tins.