

## Brief, but Interesting.

THE bellows of the new organ in the Presbyterian Church at Orillia, Ont., are worked by a turbine water motor.

A MACHINE has been invented for making gas from wood. Besides 18,000 cubic feet of gas, it is claimed that it will produce from a cord of firewood thirteen sacks of charcoal and two gallons of tar.

THE Manchester Ship Canal, the construction of which has caused such deep interest throughout the civilized world, was opened for traffic on New Year's Day, although the formal opening will not take place till the spring, on account of the shortness of the day at the present season. Manchester's royal charter as a port is said to be the first issued under the Great Seal since almost mediæval times.

A FRENCH engineer proposes to build an Atlantic liner on a series of eight rollers. He argues that placing the vessel on wheels or rollers will greatly diminish the resistance offered by the waves and will enable the distance between New York and Southampton to be accomplished in four days. He proposes to arrange the rollers so that they will be about 26 ft. deep in the water, and will revolve within a platform placed about 24 feet above the water-level. The ship will have, therefore, a rolling instead of a gliding motion through the sea.

## The Patent Review.

- 44,043 George Beverly Morrill, Canterbury, New Hampshire, axe or tool wedge.
- 44,045 Robert Monroe, Alleghany, Penn., water tube boiler.
- 44,046 Wm. J. Jones, Pinson, Tennessee, nut lock.
- 44,047 Fris tram D. Brown, Canandaigua, N.Y., pail, pan, wash boiler, etc.
- 44,049 Wm. Humphrey Perrin, Merrickville, plow coulter.
- 44,050 Edmund F. Hartshorn, Newark, N.J., apparatus for manufacturing metal tubes.
- 44,051 Walter Melinus, Albany, N.Y., brush.
- 44,052 George Booth, Toronto, Ont., range boiler.
- 44,053 Samuel George Curry, Toronto, moisture pan for radiators.
- 44,056 Wm. Alfred Drewett, Brooklyn, N.Y., direct acting steam engine.
- 44,057 Aaron Kerry, Marysville, Mich., hand drill.
- 44,087 Joseph A. Murdoch, St. John, N.B., paper ruling machine.
- 44,092 Herbert A. Wagner, St. Louis, Mo., electric motor.
- 44,093 Charles L. Ourtman, Detroit, Mich., driving belt.
- 44,094 Charles Wilkin, Shenectady, N.Y., process of manufacturing electrical insulating materials.
- 44,095 L. L. Merrifield, Franklin, Mass., apparatus for manufacture of gas.
- 44,096 J. B. S. Booth, Manchester, Eng., telephone.
- 44,103 John T. Neil, Millersport, Ohio, metallic roofing.
- 44,104 H. Saamhopf, Brunswick Germany, automatic coupling for vehicles of all kinds.
- 44,105 Arnold Kohl, Centralia, Ill., binding post for electrical connections.
- 44,107 Wm F. Deweese, Chicago, Ill., method for making wood carvings.
- 44,112 F. Schneider, Dresden, Saxony, Germany, safety lock.
- 44,115 G. Seynour, Adelaide, South Australia, material for facing moulds used in the casting of metals.
- 44,116 Jacob R. Steitz, Cudaky, Wis., sprinkler.
- 44,117 F. H. Gandrie, Port Hope, Ont., can-labelling machine.
- 44,118 H. D. Woodworth, Berwick, N.S., brake for vehicle.
- 44,119 W. J. C. Doyle, Rochester, N.Y., fuse igniter.
- 44,120 David L. Dwiwell, Montreal, Que., hot water heating system.
- 44,122 W. C. Cleveland, Rounthwaite, Man., belt holder.
- 44,123 C. F. Hardy, Scottsville, N.Y., bolting apparatus.
- 44,125 E. Thompson, Swanscott, Mass., regulator for dynamo.
- 44,127 S. A. Rosenthal, London, Eng., secondary battery.
- 44,128 W. Lawrence, New York, N.Y., electric machine for traction and stationary purposes.
- 44,129 Cyprien Mailloux, New York, N.Y., system of electric distribution.
- 44,130 O. G. Blunden, Middlesex, Eng., apparatus for, and the method of preparing peat and turf for use as fuel.
- 44,139 E. Seybold, Ottawa, Ont., electric heating coil.
- 44,131 M. W. Dewey, Syracuse, N.Y., electric heating apparatus.
- 44,133 C. W. Hazeltine, St. Louis, Mo., arc lamp electrode.
- 44,135 Thomas Crancy, Bay City, Mich., electrical bell.

### AMERICAN PATENTS.

The following is a list of patents recently granted in the United States to Canadians. This list is specially furnished to THE CANADIAN ENGINEER by H. B. Willson & Co., Washington:

- Theodore N. Clark, Toronto, Ont., dental chair, No. 508,564.
- Robert B. Robinson and E. P. Conley, Sherbrooke, Que., card waste transmitter, No. 508,487.
- Robert B. Robinson and E. P. Conley, card waste transmitter, No. 508,488.
- Thomas Davidson, Montreal, Que., damper, No. 509,019.
- Richard Smith, Sherbrooke, Que., steam regulator for paper machines, No. 508,993.
- Thomas Renwick, Miami, Man., car coupling, No. 509,627.
- John G. Smith, Montreal, Que., stop-cock, No. 509,628.
- Henry Vachon, Golden, B.C., shoe fastening, No. 509,707.

### GERMAN PATENTS.

List of patents compiled for THE CANADIAN ENGINEER at the patent and technical office of Brockhues & Co., Cologne. Information on all questions referring to this list is given GRATIS to our subscribers.

Recent applications for Patents in Germany:—

Apparatus for absorbing, cooling or heating of gases by fluids; Franz Windhausen, in Berlin.

Rail-cleaner, with automatic apparatus for strewing salt and sand; W. Greulich, Remscheid.

Process and apparatus for the production of heating-gas; C. H. Knoop, Dresden.

Electrolytic production of heavy metals by means of a fusing substance; South-German Electric Company, Beckmann, Schmitt & Co., Neustadt and Hardt.

Process for making the thread-grooves in sewing-machine needles; Thos. Zimmerman, Aix-la-Chapelle.

Patents granted in Germany:

Means for diminishing the number of revolutions in reversed current friction—machines with magnetic revolving field; Siemens & Halske, Berlin.

Universal shaping machine with horizontal shaping spindle; O. A. Petschke, Chemnitz.

Machine for making horse-shoe nails from prepared pieces; Meyer, Roth & Pastor, Cologne.

Three-sieve paper machine; E. Fullner, Warmbrunn, Silesia.

Roasting-drum for coffee, etc.; L. Brandes, Wolfenbuttel.

**PATENTS** procured for Canada, United States, Great Britain, etc.  
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