

## Personal.

JOSEPH SPRAGGE has been appointed locomotive inspector for the Ontario and Atlantic Division of the C. P. R.

T. McGRATTON, of Uxbridge, Ont., is the inventor of the Oxford Furnace put on the market by the Gurney Co.

WM. HALL, of Springhill, has been appointed manager of the Canada Coal Co.'s mines at the Joggins, in place of Mr. Baird.

LOUIS COSTE, chief engineer of Public Works, Ottawa, has gone to England to gain information with regard to submarine work.

HON. JOHN HAGGART and Collingwood Schreiber are on a tour inspecting all the St. Lawrence Canal works now under construction.

THOS. A. EDISON, the great electrician, was in Ontario at the beginning of this month, looking at some mining properties in the Sudbury district.

THOMAS FRASER, who was foreman at the building of the steel steamer "Mulgrave" at New Glasgow, N.S., has been overseer of construction of over a hundred vessels.

DONALD C. RIDOUT, the well-known patent solicitor, of Toronto, died suddenly on the 2nd inst. at his home, Tindall ave., age 45. A fit of apoplexy was the cause of death. He was a brother of Theo. Ridout, of the Department of Railways and Canals, Ottawa.

SUPERINTENDENT PINCOMBE, of the Laurentide Pulp Mill Co., Quebec, whilst inspecting the dam, stepped on a loose plank and fell backwards on to the rocks beneath, fracturing his skull. He died on the 21st July.

ENGINEER CLIFFORD, of the Ottawa, Arnprior & Parry Sound Railway engineering staff, slipped off some loose logs into the Madawaska River. He would have been drowned but for the timely intervention of Mr. Rost.

J. J. BROWNE, the well known Canadian architect, died at his home in Montreal, on the 3rd inst., at the age of 56. His death resulted from a runaway accident last November. Mr. Browne studied under Lord Russell, the famous engineer and architect.

F. E. LEONARD, of London, Ont., has been elected vice-president of the Boiler Manufacturers' Association of the United States and Canada, the annual convention of which was held in Chicago in June. The next convention will be held in Boston on the 17th July, 1894.

## Brief, but Interesting.

THE length of the great Siberian railway, with its branches, will be 5,000 miles, and its estimated cost is \$200,000,000. The entire road, according to present plans, is to be finished in 1904.

THE bearing power of piles is enormous. At some recent tests made on piles driven into clay it was found that each one bore a load of over fifty tons for a fortnight without the slightest sign of settlement.

THE telemeter is the name of a recent invention, which has for its object the recording of temperatures in storage rooms, warehouses, etc. It requires no attention for a month or more at the time, and prints the day of the week and hour of the day in plain characters on a ribbon, together with the temperature.

THE *Locomotive Engineer*, speaking of the enormous amount of labor performed by a watch, says that if the six-foot driving wheels of a locomotive be run the same number of revolutions as the balance of a watch does in a year, they will have covered a distance equal to seventy-eight complete circuits of the earth.

A CEMENT for steam pipes, valuable in filling up small leaks, such as a blow hole in a casting, without the necessity of removing the injured piece, has been compounded. It is composed of 5 pounds of Paris white, 5 pounds yellow ochre, 10 pounds of litharge, 5 pounds red lead, and 4 pounds black oxide manganese, these materials being mixed with great thoroughness, a small quantity of asbestos and boiled oil being afterward added. This composition will set hard in from two to five hours, and possesses the advantage of not being subject to expansion and contraction to such an extent as to cause leakage afterward. Its efficiency in places difficult of access is of special importance.

## The Patent Review.

### RECENT CANADIAN PATENTS.

- 43,152 Artemas Hiram Ward, Wichita, Kansas, cooking apparatus
- 43,153 Henry W. Thurston, Woodside, New York, machine for making fish and other nets.
- 43,154 Mark Wesley Dewey, Syracuse, New York, electric water-heater.
- 43,155 James Plewkharp, Columbus, Ohio, machine for forming and hooping barrels
- 43,156 Almon H. Colkins, Evanston, Ill., oil burning apparatus
- 43,157 Wm. Hewitt Meldrum, miller, Peterborough, Ont., rotary scalper.
- 43,158 Duncan G. McBean, Winnipeg, Man., air pump attachment to wheels.
- 43,159 Wallace R. Kinkand, Kansas, Mo., car wheel and axle.
- 43,160 James Ford, Loughton Hall Mains, Edinburgh, Scotland, self-binding reaping machine.
- 43,161 George W. Towar, Detroit, Michigan, emulsifier.
- 43,162 Jerome Q. Cook, Huntington, Indiana, boiler cleaner.
- 43,163 Leon Durocher, Charles Edm. Sansoucy, Duluth, Minn., fire escape.
- 43,164 Charles P. Tatrow, Spokane, Washington, underground conduit for electric railway.
- 43,165 Wm. Emery Nickerson, Cambridge, Mass., vacuum pump. (Two patents.)
- 43,167 Ernest Bockmuhl, Barmen, Rittershausen, Germany, machines for the manufacture of paper-links for driving belts.
- 43,168 Howard Sanford Whitcomb, Chicago, Ill., umbrella.
- 43,169 Archibald Buchanan, junior, Ayr, Scotland, floors for stables, cattle sheds and the like.
- 43,170 Thomas Haskell Besse, Buffalo, N.Y., ice cream freezer.
- 43,171 David Lancaster Dwinell, Montreal, syphon cistern.
- 43,172 Michael Murray, Baltimore, Maryland, holder for lids of vessels.
- 43,173 Reuben Dillon Bulver, Veedersburg, Indiana, railway sleeper block.
- 43,174 Willard F. Richards, Buffalo, N.Y., car coupler.
- 43,175 Leonidas Sennett, Russell, Kentucky, air-brake coupling.
- 43,176 Eddy L. Rayburn, San Jose, Cal., hand truck.
- 43,177 Martin J. Bobo, Rockmart, Georgia, vehicle brake.
- 43,178 Gotthulf L. Ludwig, Raton, New Mexico, drain for stall floors.
- 43,179 Thomas Ashley Bissell, Buffalo, N.Y., car buffer.
- 43,180 Alexander Klinger, Telluride, Colorado, lace fastener for shoes and other articles.
- 43,181 Nicholas J. Woolsey, Lawrence, N.Y., thill coupling.
- 43,182 Harriet Sophie Lowry, Harrisonburg, Virginia, lamp heater.
- 43,183 John McKinnon, Kingston, Idaho, clothes drier.
- 43,184 William King, Ottawa Ont., diaphragm for locomotive and other steam boilers.
- 43,185 Hannah S. Diack, Detroit, Michigan, lid strainer.
- 43,186 John Athens Bowler, New York, N.Y., twisted metal band for box strap, etc.
- 43,187 Asa Mutchenbacher, Rosseau Falls, Ont., boom chain.
- 43,188 Stanley Eskell Clifford, South Kensington, Middlesex, England, bit for bridles.
- 43,189 Perry Brown, Sharonville, Ohio, car coupling.
- 43,190 Joseph Augustus Treat, Stuart, Iowa, cash register.
- 43,191 John Callahan, Durango, Colorado, carpenter's and builder's jack.
- 43,192 Wm. Watson Grier, Hutton, Pennsylvania, machine for graining wood.
- 43,193 Harvey Isaac Leith, Providence, Rhode Island, bottle.
- 43,194 Richard K. Dorsey, Allandale, Ont., automatic car coupler.
- 43,195 Benjamin Viau, New York, N.Y., universal drafting pattern for dress cutting.
- 43,196 John Hooper Crocker, Shelburne, Ont., cornice brake.
- 43,197 James Clement Nervey, Birmingham, England, spring hook.
- 43,198 Delos Irish, Salt Lake, Utah, automatic circuit breaker.
- 43,199 Jared E. Belt, Minneapolis, Minn., running water motor.
- 43,200 John A. Barker, Pasadena, Cal., wrench.
- 43,201 George E. Desmond, Brule, Wis., tree-felling saw.
- 43,202 Ernest Feige, Saginaw, Mich., letter press.
- 43,203 Philip Trick, Crestline, Ohio, machine for making wire fences.
- 43,204 Henry Sacks Kaliske, Boston, Mass., vacuum pump