

extension to other trades, of the beneficial provisions of the factory acts especially reported by the Royal Commission on the employment of children, and for the better regulation, according to the principle of those acts, of workshops where women and children are largely employed.

The condition of the mercantile marine has attracted my serious attention. Complaints are made that the supply of seamen is deficient, and provisions for their health and discipline on board ship are imperfect. Measures will be submitted to you with a view to increase the efficiency of this important service.

I have observed with satisfaction the relaxation recently introduced into the Navigation laws of France. I have expressed to the Emperor my readiness to submit to Parliament a proposal for the extension, on equitable terms, of the exemption from local charges on shipping, which are still enjoyed by a limited number of individuals in British ports, and have in anticipation of this step already admitted British ships to the advantages of the new law. A bill upon this subject will forthwith be laid before you.

A bill will also be submitted to you for making better provision for the arrangement of the affairs of Railway Companies which are unable to meet engagements.

Measures will be submitted to you for improving the management of the sick and poor, for the metropolis, and for a redistribution of some of the charges for relief therein.

Your attention will also be called to the amendment of the law of Bankruptcy, to the consolidation of the Courts of Probate and Divorce and Admiralty, and to the means of disposing with greater dispatch and frequently of the increasing business in the Superior Courts of Common Law, and at the Assizes.

The relations between landlord and tenant in Ireland have engaged my attention, and a bill will be laid before you which, without interfering with the rights of property, will offer direct encouragement to occupiers of land to improve their holdings and provide a simple mode of obtaining compensation for permanent improvement.

I commend to your careful consideration these and other measures which will be brought before you, and I pray that your labours may, under the blessing of Providence, conduce to the prosperity of the country and the happiness of my people.

## PATENTS OF INVENTION.

BUREAU OF AGRICULTURE & STATISTICS,

PATENT OFFICE,

Ottawa, 25th January, 1867.

**H**IS Excellency the Governor General has been pleased to grant Letters Patent of Inventions for a period of "fourteen years," from the dates thereof, to the persons whose names are included in the following list.

Published by command,

A. J. CAMBIE,

Acting Deputy to the Minister of Agriculture

Joseph Clinton Henderson, of the Town of Brockville, in the County of Leeds, Iron Founder. "A new and useful Bituminous Coal burner, called Henderson's new Bituminous Coal Burner."—(Dated Ottawa, 18th May, 1866.)

Elijah Burton Sherburne, of the Township of East Williams, in the County of Middlesex, Apiarist. "A Flax extending Drove Extenuating Miller and Robber-Proof Bee-Hive."—(Dated Ottawa, 3rd July, 1865.)

Joseph Winter, of the Village of Aylmer, in the County of Elgin, Chandler. "A new and useful Disc very to be called 'Winter's Improved method of manufacturing potash.'"—(Dated Ottawa, 3rd July, 1866.)

John Doyle, of the Village of Swagburg, in the County of Oxford, Gentleman. "A new and useful self-shooting Burglar Battery, to be called 'Doyle's self-shooting Burglar Battery.'"—(Dated Ottawa, 3rd July, 1866.)

John McIntosh, of the City of Hamilton, in the County of Wentworth, Boiler-Maker. "A new and useful Portable Steam Engine Boiler, called 'The McIntosh Portable Steam Boiler.'"—(Dated Ottawa, 3rd July, 1865.)

Elijah Gibbs, of the City of Toronto, in the County of York, Machinist. "A new and useful Fast Block Fastener."—(Dated Ottawa, 3rd July, 1865.)

Dennis Bartholomew, of the Township of East Zorra, in the County of Oxford, Yeoman. "A new and useful Field Roller to be called 'The Excelsior Field Roller.'"—(Dated Ottawa, 6th July, 1866.)

Mathew Wathrok Heathfield, of the City of London, in the County of Middlesex, Druggist. "A new and useful compound white he names 'Salmon's English White Oil.'"—(Dated Ottawa, 6th July, 1866.)

John Steele of the City of Montreal, Manufacturer and Trader. "A new and improved Brick Making Machine."—(Dated Ottawa, 10th July, 1866.)

Philip Echles, of the Village of Bothwell, in the County of Kent, Mechanist. "A new and useful improved Stove-Cook."—(Dated Ottawa, 31st July, 1866.)

George Pierce, of the Village of Kingsville, in the Township of Gosfield, in the County of Essex, Wheelwright. "A Corn Sheller and Separator."—(Dated Ottawa, 31st July, 1865.)

Samuel Silas Wood, of the Township of Glenheim, in the County of Oxford, Yeoman. "An improved Bolt Cutter."—(Dated Ottawa, 31st July, 1866.)

George Henry Overholt, of the Township of Grimsby, in the County of Lincoln, School Teacher. "A new and useful reading and writing Frame."—(Dated Ottawa, 31st July, 1866.)

John Crampton Wilson, of the Township of Oro, in the County of Simcoe, Yeoman. "A new and useful Multiplier."—(Dated Ottawa, 31st July, 1866.)

Joseph William Robinson, of the Village of Bridgewater, in the County of Hastings, Machinist. "The Axe-Rolling and Swagging Machine for Making Chopping Axes."—(Dated Ottawa, 31st July, 1866.)

Michael Barret, of the City of Toronto, in the County of

York, Physician and Surgeon. "A new and useful art for this vivification of Sulphuric Acid spent in the refining of Coal Oil."—(Dated Ottawa, 31st July, 1866.)

George Joseph D'Arcy, of the Village of Oil Springs, in the County of Lambton, Geologist. "A new and useful method of extracting Gas, Lubricating Oil, Burning Oil and Tar from Shale Rock."—(Dated Ottawa, 31st July, 1866.)

Alexander Kirkwood, of the City of Ottawa, in the County of Carleton, Gentleman. "A new and useful kind of paper called 'Melilotus Paper.'"—(Dated Ottawa, 31st August, 1866.)

Henry Carter, of the Township of Malahide, in the County of Elgin, Blacksmith. "A new and useful Machine, called Carter's combined Ditching and Sod and Turf Cutter."—(Dated Ottawa, 14th August, 1866.)

John Lamb, of the City of Ottawa, in the County of Carleton, Millwright. "A new and useful Water-Wheel."—(Dated Ottawa, 23rd August, 1866.)

Lewis Van Camp, of the Town of Berlin, in the County of Waterloo, Dentist. "A certain new and useful improvement in instruments for the application of fluids for the production of topical anaesthesia, called 'Van Camp's Patent spray tube.'"—(Dated Ottawa, 23rd August, 1866.)

John Watson, of the Town of Guelph, in the County of Wellington, Millwright. "A certain new and useful improvement in the Turbine Water-Wheel."—(Dated Ottawa, 23rd August, 1866.)

Calvin Atherton, of the Village of Union Township of Yarmouth County of Elgin, Carriage-maker. "Atherton's Union Carriage Springs."—(Dated Ottawa, 31st August, 1866.)

William Henry Rodden, of the City of Toronto, in the County of York, Commercial Traveller. "A new and improved system of piping for water cisterns."—(Dated Ottawa, 31st August, 1866.)

Joseph James Indis and David Spence, Assignees of Thomas Wilkinson, Gentleman. "A Composition of matter for illuminating or other purposes."—(Dated Ottawa, 31st August, 1866.)

John Burke, of the Town of Bellville, in the County of Hastings, Gentleman. "An improvement in Beach-loading Fire Arms."—(Dated Ottawa, 11th September, 1866.)

Martin Collier, of the City of Toronto, in the County of York, Meat Packer. "Collier's method of slaughtering and preserving meat."—(Dated Ottawa, 11th September, 1866.)

Charles Ingersoll Corbin, of the Township of East Oxford, in the County of Oxford, Blacksmith. "A certain new and useful improvement on the Revolving Horse-Rake, the so improved Rake to be called 'Corbin's improved Revolving Horse Rake.'"—(Dated Ottawa, 13th September, 1866.)

Blithu Spencer, of the City of Ottawa, in the County of Carleton, Photographer. "A certain new and useful improvement in the manner of inserting India Rubber Plastic into leather Boots and Shoes."—(Dated Ottawa, 13th September, 1866.)

Joseph Frederick Rainer, of the Town of Whitby, in the County of Ontario, Pianomaker. "A new and useful style of Piano, known as Rainer's new and Elliptic Piano."—(Dated Ottawa, 13th September, 1866.)

Farley James Ayres, of the Town of Peterborough, in the County of Peterborough, Machinist. "A new and useful Auger-Handle, called 'Ayres's Auger-Handle.'"—(Dated Ottawa, 13th September, 1866.)

Leon Moses Clench, of the Town of St. Mary's, in the County of Perth, Barister. "An elbow needle bar, silent motion and oscillating feed attachment for sewing machines, to be called 'Clench's Elbow Needle bar, silent motion and oscillating feed attachment for Sewing Machines.'"—(Dated Ottawa, 13th September, 1866.)

Percy James Ayres, of the Town of Peterborough, in the County of Peterborough, Machinist. "A new and useful tire upsetting machine, called Ayres's Improved Tire upsetting machine."—(Dated Ottawa, 13th September, 1866.)

Robert Hill, of the Village of Nobleton, in the County of York, Machinist. "Certain improvements in the side gearing for Thrashing Machines" in addition to those for which he has already obtained Letters Patent of Invention in Canada, bearing date the 2nd day of August, A.D., 1865.—(Dated Ottawa, 13th September, 1866.)

Hugh Laines, of the City of Toronto, in the County of York, Gentleman. "A new and useful steel case axle and shaft with steel hub wheels and bearing for all kinds of Rolling Stock and Machinery."—(Dated Ottawa, 13th September, 1866.)

Thomas Hendry, of the Township of Whitechurch, in the County of York, Blacksmith. "An improved Plough, certain improvements in which are new and useful."—(Dated Ottawa, 13th September, 1866.)

John Alexandre Kennedy, of the Township of Glenheim, in the County of Oxford, Carpenter. "A new and useful improved Waggon Jack."—(Dated Ottawa, 13th September, 1866.)

Otto Rotton, of the City of Kingston, in the County of Frontenac, Doctor of Medicine. "A new, useful and improved still, called 'The Double Exhaust Vertical Still or Evaporator.'"—(Dated Ottawa, 17th September, 1866.)

Otto Rotton, of the City of Kingston, in the County of Frontenac, Doctor of Medicine. "A new, useful and improved still, called 'The Cephaloid Still.'"—(Dated Ottawa, 17th September, 1866.)

Otto Rotton, of the City of Kingston, in the County of Frontenac, Doctor of Medicine. "A new and useful method of applying cement within closed barrels or other vessels called 'The Direct Force Cementing Process.'"—(Dated Ottawa, 17th September, 1866.)

Daniel McEwell, of the City of Montreal, Mechanical Engineer. "A new and useful apparatus for cleaning flues of Steam Boilers."—(Dated Ottawa, 17th September, 1866.)

Alexander Puntin, of the City of Montreal, Paper Manufacturer. "For the introduction of 'A new and useful invention known as Henrich Valters Machine for Pulping Wood for the Manufacture of Paper.'"—(Dated Ottawa, 19th September, 1866.)

William McEvilla, of the Village of Roxton Falls, in the County of Shefford, Watchmaker and Jeweller. "A Pocket Watch Safe."—(Dated Ottawa, 19th September, 1866.)

Horace Sawyer, of the Township of Eaton, in the County of Compton, Trader. "A new and useful improvement in the manufacture of the Extract of Tan Bark and other materials."—(Dated Ottawa, 19th September, 1866.)

Oliver Campbell, of the Township of Compton, in the County of Compton, Miller. "A new and useful Water-Wheel and Curb."—(Dated Ottawa, 19th Sept., 1866.)

Hemy Walker, of the Village of Buckingham, in the County of Ottawa, Miller. "A Vice Mill Stone Pick."—(Dated Ottawa, 19th September, 1866.)

Edward B. Meyer, of the City of Quebec, Gentleman. "New and useful improvements in Frilling Machines."—(Dated Ottawa, 19th September, 1866.)

Thomas Mara Fell and Ambrose George Fell, of the City of Montreal, Chemists. "Certain new and useful improvements in the manufacture of White Lead."—(Dated Ottawa, 19th September, 1866.)

Alexander Puntin, of the City of Montreal, Paper Manufacturer. "For the introduction of 'A new and improved Machinery for Pulping Wood for the Manufacture of Paper.'"—(Dated Ottawa, 20th September, 1866.)

Aaron Magon, of the Township of Stanstead in the County of St. Jean, Farmer. "A new and improved Rotary Harrow."—(Dated Ottawa, 25th September, 1866.)

George Scott, of the City of Montreal, Pattern Maker. "A new and improved Red-Lead Fastener."—(Dated Ottawa, 25th September, 1866.)

Charles L. Main, of the Township of Hamilton in the County of N. B. Cumberland, Yeoman. "A new and useful Cultivator."—(Dated Ottawa, 25th September, 1866.)

Robert Barclay, of the Town of Paris, in the County of Brant, Watchmaker. "A certain new and useful improvement in Sewing Machines."—(Dated Ottawa, 25th September, 1866.)

Alexander Gale Alexander, of the City of Hamilton in the County of Wentworth, Plumber and Gas Fitter. "A new and useful means and apparatus for generating hydrocarbon vapors and continuing an uniform flow thereof."—(Dated Ottawa, 25th September, 1866.)

John Jones, of the City of Kingston in the County of Frontenac, Coach Builder. "A Horse Hay-Fork."—(Dated Ottawa, 25th September, 1866.)

William Eastwood Tench, of the Town of Clifton in the County of Welland, Gentleman. "A new and useful Pump apparatus for superseding Pumps in Artesian Wells."—(Dated Ottawa, 25th September, 1866.)

Corridor Lewis, of the Village of Salford, in the Township of Durham in the County of Oxford, Cooper. "A new and useful Dairy Man's churn."—(Dated Ottawa, 29th September, 1866.)

Charles Lyons, of the Town of Simcoe, in the County of Norfolk, Gentleman. "A Steel Healed Railway Rail, also a method by which steel can be welded on in the head of a railway rail so that it cannot be loosened and rendered useless until the head is actually worn down."—(Dated Ottawa, 29th September, 1866.)

Robert Loudon, of the Village of Bothwell, in the Township of Zone, in the County of Kent, Machinist. "A certain new and useful improvement in the construction of Steam Boilers and Engines to control the draught and to dispense with the Blast-pipe, in combination with the new invention by one J. G. Hirts for the use of Petroleum as fuel."—(Dated Ottawa, 3rd October, 1866.)

Felicite Marais, of the City of Montreal, "A composition of matter to be called 'English Cleansing Fluid of F. Marais.'"—(Dated Ottawa, 4th October, 1866.)

Henry Yeager, of the City of Hamilton in the County of Wentworth, Wheelwright. "A new and useful Machine for Pitching and Loading Hay and Straw called 'Yeager's Revolving Hay Pitcher.'"—(Dated Ottawa, 4th October, 1866.)

William Gill, Engineer, of the City of Toronto, in the County of York, and James Duff, of the same place, Boiler Maker. "A new and useful machine for the safer and better management of Steam Boilers."—(Dated Ottawa, 5th October, 1866.)

Charles Frederick Bruton, of the town of Napanee, in the County of Lennox and Addington. "An Improved Flannel cloth and yarn mixture."—(Dated Ottawa, 9th October, 1866.)

John Israel Ensley, of the City of London, in the County of Middlesex, Machinist. "A new and useful method of fastening Hoops."—(Dated Ottawa, 12th October, 1866.)

John Henry Bakins, of the Township of Enniskillen, in the County of Lambton, Oil Producer. "A new and useful improvement in the valves used in pumping Oil-wells."—(Dated Ottawa, 12th October, 1866.)

James Wilson, of the Township of Nelson, in the County of Halton, Lumber Merchant. "A new and useful improvement on the Steam Engine, known as 'The Central Application Non-Friction Valve.'"—(Dated Ottawa, 13th October, 1866.)

Leonard Hoffman, of the City of Ottawa, in the County of Carleton, Architect. "A new and useful manner of Preserving Eggs in a granulated or compact form to be known as 'Pooles Granulated Eggs.'"—(Dated Ottawa, 18th October, 1866.)

Thomas Wells, of the Township of Blanshard in the County of Perth, Yeoman. "A new and useful Improved Horse Rake."—(Dated Ottawa, 18th October, 1866.)

Alexander Gale Alexander, of the City of Hamilton, in the County of Wentworth, Plumber and Gas Fitter. "A new and useful method of Generating or Increasing the power of Hydro-carbon Gas."—(Dated Ottawa, 18th October, 1866.)

Robert Rogers, of the City of Montreal, Merchant tailor. "A new and useful Gas Stove Furnace and Range."—(Dated Ottawa, 25th October, 1866.)

Rev John Durrant, of the town of Stratford in the County of Perth, Congregational Minister. "A new and useful flexible clearer for Lamp chimnies and glass Globes."—(Dated Ottawa, 30th October, 1866.)

George James Baker, of the Town of Oakville, in the County of Halton, Livery Stable Keeper. "A new and useful method of fastening buckles in harness, bridles, reins, martingales and stirrup leathers, and for the fastening of all other straps used about harness."—(Dated Ottawa, 30th October, 1866.)

Benjamin Bowman Bemis, the younger, of the village of Winterbourne, in the County of Waterloo, Dentist. "A new and useful machine for the drying of grain called 'Bemis's Canadian Grain Dryer.'"—(Dated Ottawa, 30th October, 1866.)

Mott Billing Brooks, of the Town of Brockville in the County of Leeds, Tin Smith. "A new and useful machine which he has named 'Brook's Patent Ribbon Roller and