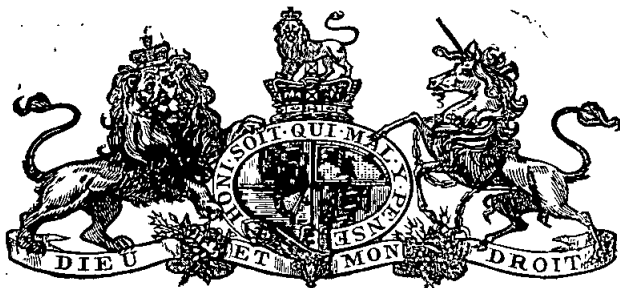


[ 1859 ]



SECOND SUPPLEMENT  
TO THE  
VICTORIA  
GOVERNMENT GAZETTE

OF FRIDAY, MARCH 20, 1891.

Published by Authority.

No. 34.]

TUESDAY, MARCH 24.

[1891.

OFFICIAL LIST OF PATENTS.

OFFICIAL List of Applications for Patents Lodged; Applications Accepted, Refused, Abandoned, and Opposed; Complete Specifications Accepted; and Letters Patent Sealed. From the 1st to the 28th days of February, 1891, in the Patents Office.

THOS. PROUT WEBB,  
Commissioner of Patents.

APPLICATIONS FOR PATENTS.

- No. 8475. By Henry Dalton, of Gourlay-street, Balaclava, Victoria, plumber, for "Raising sunken vessels or ships." 2nd February.
- No. 8476. By Robert Bowman, of Nos. 58 and 60 King-street, Melbourne, in the colony of Victoria, merchant, for "Improvements in the fire grates of locomotive and other boilers." 3rd February.
- No. 8477. By George Simpson, a member of the firm of George Simpson and Co., of Warracknabeal, in the colony of Victoria, implement manufacturers, for "An improved rising beam for jump ploughs." 3rd February.
- No. 8478. By William John Jessup, of Kaniva, in the colony of Victoria, machinist, for "An improved threshing machine." 3rd February.
- No. 8479. By John Trevor-Jones, of Sydney, in the colony of New South Wales, civil engineer, for "Improved appliances for preventing noxious matter from gaining access to water mains through ball hydrants." 4th February.
- No. 8480. By William Goodenough Percy Sharp, of No. 44 Lewisham-road, Windsor, near Melbourne, in the colony of Victoria, gentleman, for "Improvements in paper bags, principally applicable to those which are used for carrying small quantities of fruit." 5th February.
- No. 8481. By Joseph Senior Sheard, of Numurkah, in the colony of Victoria, mechanical engineer; and Allan McDonald, of Knox-street, Numurkah, aforesaid, architect, for "An improved compressed air motor." 5th February.
- No. 8482. By Jonathan Bear, of Imperial Chambers, Bank-place, in the city of Melbourne, in the colony of Victoria, patent agent, for "An improved aquatic velocipede or apparatus for travelling over water." 6th February.
- No. 8483. By Arthur Otto Sachse, of corner of Collins and William streets, Melbourne, consulting engineer, for "Improvements in obstacle-clearing implements for agriculture." 7th February.
- No. 8484. By George John Hoskins and Charles Henry Hoskins, both of Sydney, in the colony of New South Wales, engineers, for "An improved mode of constructing the spigot ends of riveted wrought-iron pipes." 9th February.
- No. 8485. By Thomas Petersen, of No. 70 Union-street, Brunswick, near Melbourne, in the colony of Victoria, potter, for "Improvements in continuous kilns (such as Hoffmann's), principally adapted for the burning of red facing bricks." 9th February.
- No. 8486. By Thomas Oldham Bennett, of Sydney, in the colony of New South Wales, mechanical engineer, for "Improvements in machine sheep-shears, and in the mode of driving the same." 9th February.
- No. 8487. By Parnell Rabbidge, of Sydney, in the colony of New South Wales, electrician, for "An improved microphone to be used as a telephone transmitter." 9th February.
- No. 8488. By John Shearer and David Shearer, both of Mannum, in the province of South Australia, machinists, for "An improved wrought share for scarifiers and cultivators." 9th February.
- No. 8489. By Herbert Merriman, of 611A Little Lonsdale-street, Melbourne, in the colony of Victoria, brassfinisher, for "Improvements in hydraulic cocks and valves." 10th February.
- No. 8490. By William Roberts, of Petersham, near Sydney, in the colony of New South Wales, engineer; and Howard Raymond Belden, of Market-street, Melbourne, in the colony of Victoria, publisher, for "An improvement in revolving table amalgamating machines." 16th December, 1890.
- No. 8491. By Thomas Read, of Rae-street, North Fitzroy, in the county of Melbourne, Victoria, for "An improved ball valve hydrant." 11th February.
- No. 8492. By William Marsden Ainsworth, engineer, care of A. O. Sachse, C.E., corner of Collins and William streets, Melbourne, Victoria, for "Improved apparatus for preventing sparks escaping from the funnels of boilers." 11th February.
- No. 8493. By Hugh William Waddle, of Bryn Jesog, Llanelly, in the county of Carmarthen, Wales, engineer, for "Improvements in fans for ventilating mines or tunnels or for analogous purposes." 11th February.
- No. 8494. By Ludwig Epstein, of East Twickenham, in the county of Middlesex, England, electrical engineer, for "Improvements in the formation of electrodes for use in primary and secondary electric batteries." 11th February.

- No. 8495. By Samuel George Baker Cook, of 114 Commerce-street, Baltimore, Maryland, United States of America, merchant, for "An improved wire nail or brad and machinery for making the same and for braddding together the parts of wooden boxes or other articles with such nails or brads." 12th February.
- No. 8496. By Francis Stone, of 4 Federal-terrace, Eglington-street, Ascot Vale, in the colony of Victoria, Customs officer, for "Improvements in trollies." 12th February.
- No. 8497. By Hjalmar Graff, of No. 12 Gipps-street, East Melbourne, in the colony of Victoria, journalist; Edward William Linnell French, of Spring-street, Melbourne aforesaid, dentist; and John Henry Durrant, manager of the Grand Hotel, Spring-street, Melbourne aforesaid, for "An improved wire strainer." 12th February.
- No. 8498. By John McCammon, of No. 198 Albert-street, East Melbourne, in the colony of Victoria, mechanical engineer, for "An improved adjustable automatic flood gate for weirs." 12th February.
- No. 8499. By Marcus Stow Hill, of Sydney, in the colony of New South Wales, exporter, for "Improved evaporating tables and flues for desiccating closets." 12th February.
- No. 8500. By George Porter Maddison, of Nattayallock, parish of Nattayallock, in the county of Gladstone and the colony of Victoria, for "An improved gold and quicksilver amalgamator by hydraulic pressure." 13th February.
- No. 8501. By Albert Malet Le Soeuf, of Armadale, in the county of Bourke, Victoria, gentleman, for "Sproul's hydraulic and pond systems of watering agricultural and pastoral lands." 13th February.
- No. 8502. By Edward Davis, of Horsham, in the colony of Victoria, blacksmith, for "An improved rising beam for jump ploughs." 13th February.
- No. 8503. By Frederick Leeder, foundry manager to the Singer Manufacturing Company, Killiome, Dumbartonshire, Scotland, for "Improvements in sand-moulding machines." 13th February.
- No. 8504. By Edward Waters, of No. 131 William-street, Melbourne, in the colony of Victoria, patent agent, for "An improved system of electrical supply or distribution, and improved apparatus therefor." 13th February.
- No. 8505. By William Adolphus Smyk, of 200 Cecil-street, Albert Park, joiner, for "An improved self-acting wall ventilator." 14th February.
- No. 8506. By Isaac Ackland, of Lorquon, in the colony of Victoria, blacksmith, for "Improvements in ploughs and cultivators." 14th February.
- No. 8507. By Charles Hilberd, of Bromby-street, South Yarra, Melbourne, Victoria, contractor, for "Reversing window sashes, and improvements in hanging and operating same." 14th February.
- No. 8508. By William Tregear, of Burwood, in the colony of New South Wales, turncock, for "An improved hydrant." 16th February.
- No. 8509. By William Robinson, of 95 Milk-street, Boston, Massachusetts, in the United States of America, engineer, for "Electric motor car." 16th February.
- No. 8510. By The Wolsely Sheep-shearing Machine Company Limited, of Great Britain, whose registered office is at No. 4 Sun Court, Cornhill, London, England, for "Improvements in flexible couplings or joints for toothed wheel gearing." 16th February.
- No. 8511. By Henry Thomas Coburn, of 82 George-street, Launceston, in the colony of Tasmania, master tailor and clothier, for "A time-saving and convenient sample-book suitable for merchant tailors, watchousemen, commercial travellers, woollen manufacturers, drapers, &c." 17th February.
- No. 8512. By Theodor Solyman Eugene Dixon, residing at No. 53 Dearborn-street, Chicago, in the county of Cook, State of Illinois, U.S.A., lawyer, for "Improvements in secondary batteries." 17th February.
- No. 8513. By Richard Pennesfather Rothwell, of 27 Park-place, New York city, in the State of New York, one of the United States of America, mining engineer, for "Improvements in apparatus for sinking shafts." 17th February.
- No. 8514. By Merle J. Wightman, of Scranton, Pennsylvania, one of the United States of America, for "Electric motor controllers." 17th February.
- No. 8515. By Charles H. Hard, Orrin Gilmore Franks, and Albert Edward Loomis, of Oneida, in the county of Madison, in the State of New York, United States of America, manufacturers, for "Improvements in machine for weaving wire mattresses." 17th February.
- No. 8516. By James Muir Dalglish, of Nos. 463-473 Little Bourke-street, Melbourne, in the colony of Victoria, coppersmith, for "An improved attachment to hydrant valve boxes or fire plugs." 17th February.
- No. 8517. By Henry Thomas Coburn, of 82 George-street, Launceston, in the colony of Tasmania, master tailor and clothier, for "A sample fastener to fasten woollen samples to card-board, instead of gum as used at present." 18th February.
- No. 8518. By Moritz A. Melville, of 11 Roger-street, Richmond, in the county of Bourke, Victoria, for "Improvements in automatically locking and unlocking railway carriage doors." 18th February.
- No. 8519. By Henry Fairfax Williams, of the city and county of San Francisco, State of California, United States of America, gentleman, for "A composition of matter to be used for paving, roofing, and building purposes." 18th February.
- No. 8520. By Frank Redcliffe Letheren, of 3 Lorne-street, Hawkesburn, in the colony of Victoria, ironmonger, for "An improved self-locking barrel bolt for securing doors or windows." 19th February.
- No. 8521. By Ludwig August Ferdinand Vitzdamm, No. 23 Princes-street, Prahran, near Melbourne, in the county of Bourke, venetian blind maker, for "An improvement in venetian blinds, to be called 'The patent modern venetian.'" 19th February.
- No. 8522. By John Cook, agricultural implement maker, and Henry McGowan, striker, both of Stavell, in the colony of Victoria, for "Improvements in and relating to the rising beam of jump ploughs." 20th February.
- No. 8523. By James Peter Franki, of Montrose, Balmain, near Sydney, in the colony of New South Wales, managing engineer, for "Improved means of exposing a portion or the whole of the undersides of vessels in roadsteads, harbors, and rivers, &c." 20th February.
- No. 8524. By Moritz Wolf Judell, of Adelaide, in the province of South Australia, gentleman, for "Improvements in the process of extracting tannin and resinous matter from wattles and other plants, together with apparatus for carrying the same into effect." 20th February.
- No. 8525. By Thomas Young, of 27 St. Vincent-place, Glasgow, in the county of Lanark, Scotland, engineer, for "Improvements in valves for corrosive or other fluids." 21st February.
- No. 8526. By Henry Jeremiah Smith, of No. 55 Bell-street, Fitzroy, near Melbourne, in the colony of Victoria, engineer; and Hubert Willy Christian Henricks, lately of Maryborough, in the colony of Queensland; at present residing at Melbourne aforesaid, dairyman, for "Improvements in machines for milking cows and other animals." 20th February.
- No. 8527. By John Kelly, of Kilkerran, in the province of South Australia, farmer, for "An improved double-action stump-jumping plough." 21st February.
- No. 8528. By Albert Hugo and Arthur O'Neil, of Geelong, in the county of Grant, Victoria, for "An improved rabbit exterminator." 23rd February.
- No. 8529. By Alfred Upton Alcock, of 206 Russell-street, Melbourne, in the colony of Victoria, electrician, for "Improvement in alternating dynamos." 23rd February.
- No. 8530. By Edward Waters, of No. 131 William-street, Melbourne, in the colony of Victoria, patent agent, for "Improvements in autographic telegraphs and automatic switches for the same." 23rd February.
- No. 8531. By John Brown, of 21 Brighton-street, East Richmond, near Melbourne, in the colony of Victoria, for "Breaking the gauge of railway and tramway lines, and named 'The Victorian break gauge.'" 24th February.
- No. 8532. By Edward Francis Hutchins, of No. 259 Fitzroy-street, Fitzroy, near Melbourne, in the colony of Victoria, architect, for "Improvements in and relating to the sills of windows or doors for buildings." 24th February.
- No. 8533. By Gustav Bernhard Reetz, of No. 454 Collins-street, in the city of Melbourne and colony of Victoria, merchant, for "An improvement in neckties and in the method of holding the same." 25th February.
- No. 8534. By Alfred Johnson, of Hamilton, in the colony of Victoria, watchmaker and jeweller, for "An improved combined pocket sun-dial and compass." 25th February.
- No. 8535. By Charles Henry Metters, John Thomas Metters, and Frederick Metters, all of Post Office-place, in the city of Melbourne and colony of Victoria, range manufacturers, for "An improved apparatus for ventilating cooking stoves and ranges." 25th February.

No. 8536. By Charles Nicholas Morris, of the Bridge Hotel, Williamstown, in the colony of Victoria, for "Improved apparatus for mixing hydro-carbon vapour with air, coal gas, or water gas." 25th February.

No. 8537. By John Miller, of Nos. 225 and 227 Russell-street, Melbourne, in the colony of Victoria, engineer, for "An improved method of destroying rabbits." 26th February.

No. 8538. By George Lansell, of the Fortuna Crushing Works, Sandhurst, in the colony of Victoria, quartz miner, for "Improvements in apparatus for equalizing the strain on winding machinery." 26th February.

No. 8539. By George Tom Olver, of Montague-road, South Brisbane, in the colony of Queensland, foreman of works, for "An improved apparatus for locking the wheels of vehicles." 27th February.

No. 8540. By Charles MacMahon, of East Melbourne, in the county of Bourke, gentleman, for "Improvements in spark arresters for locomotives." 27th February.

No. 8541. By Henry Harper, of 3 Cornwall Gardens, Queen's Gate, electrical engineer; John Tryon, of 1 Stone Buildings, Lincoln's Inn, solicitor; and Thomas George Poole, 58 Bread-street, Cheapside, electrical engineer, all in the county of Middlesex, England, for "Improvements in electric arc lamps." 27th February.

No. 8542. By Richard Alliot Smithurst, secretary of Richard Hornsby and Sons Limited, of Spittlegate Ironworks, Grantham, in the county of Lincoln, England, engineers, for "Improvements in reaping or harvesting machines." 27th February.

No. 8543. By Isaiah Lewis Roberts, of Brooklyn, New York, United States of America, electrician, for "Improvements in apparatus for use in the electrolytic decomposition of metallic salts." 27th February.

No. 8544. By Ludwig Mond, of Winnington Hall, Northwich, in the county of Chester, in the Kingdom of England, manufacturing chemist, for "New or improved manufacture of nickel and of articles of nickel or plated with nickel." 27th February.

No. 8545. By Thomas Griffiths, of Sydney, in the colony of New South Wales, civil engineer, for "An improved grease trap or interceptor." 28th February.

No. 8546. By Edward Lewis, of Salisbury Buildings, Bourke-street, Melbourne, in the colony of Victoria, agent, for "An improved hydrant valve." 28th February.

## COMPLETE SPECIFICATIONS ACCEPTED.

No.	Date of Publication.	Name.	Title.
	1891.		
7559	February 6	Nathaniel Greening ... ..	Improvements in wire weaving looms
7578	February 6	Archibald Campbell ... ..	An improved shirt
7594	February 6	Alexander Sutherland ... ..	Improvements in grape mills
7612	February 6	Arthur William Attenbrow and John Fitzallen Barrett	Improvements in india-rubber and such like valve discs for pumps and pumping engines
7637	February 6	Chapman Jwen ... ..	An improved wire strainer
7642	February 6	Nowell Henry Richards ... ..	Improvements in and relating to underground cable tramways
7661	February 6	William Lockhart Morton ... ..	Improvements in design and make of boots and shoes
7906	February 6	William Kendall ... ..	An improved claw hammer
8016	February 6	James Hodgkinson ... ..	Improvements in mechanical stokers and in apparatus connected therewith
8079	February 6	Frederick Grinnell ... ..	Improvements in automatic fire extinguishers
8134	February 6	Alexander McColl ... ..	An improved contrivance for preventing horses running away whilst at a standstill with vehicles
8142	February 6	Findlay and Company Limited ... ..	An improved process of and apparatus for preparing "neutral" timber, so as to fit it for use in making packages to contain butter and other alimentary substances
8190	February 6	Abraham Ambler ... ..	Improvements in the method of and apparatus for washing or cleansing wool and other textile fibres, also applicable to the washing of clothes
8212	February 6	John Sen Thomson ... ..	An improved pneumatic churn
8251	February 6	Matthew Highet Lauchlan ... ..	Improvements in tapping cocks and valves
8283	February 6	Robert Rogers ... ..	An improved means for straining and fastening fence wire
8292	February 6	Henry George Bedell ... ..	An improved gas regulator and purifier
8311	February 6	Henry Jerger ... ..	An improved water engine
8318	February 6	William Gillies ... ..	Improvements in machines for sharpening the combs and cutters of sheep-shearing machines, and for grinding and polishing flat surfaces
8327	February 6	Reuben Hallenstein ... ..	Apparatus for working fire-proof doors, and for closing lift openings and other apertures in floors of buildings
8329	February 6	Hugh Watson Mackenzie ... ..	An improved machine for gauging, cutting, and panning the dough used in the manufacture of biscuits
8330	February 6	Samuel Howard Stott ... ..	Improvements in apparatus for diffusing upon plants fertilizing, insect-destroying, or other compound in liquid form
8332	February 6	Charles Robert Clarke Tichborne, Alfred Edward Darley, Marmaduke Francis Purcell, and Samuel Geoghegan	A method of and appliances for the collection and utilization of the carbonic acid gas and other products given off during the process of all fermentation
8333	February 6	George Samuel Baker ... ..	Improvements in oven lights
8345	February 6	James Watkin Kinniburgh ... ..	A new or improved boat lowering and releasing apparatus
8358	February 6	The Marshall Improved Window Furniture Company	Certain improvements in sash balances
8362	February 6	Giovanni Battista Zerderli and John O'Grady	An improved anti-acetic bung and spigot for wine casks
8364	February 6	Thomas Alexander Patterson ... ..	Improved means for producing a fine spray or mist for watering plants and cooling purposes
8372	February 6	Joseph William Corbett ... ..	A new cementitious and fire-resisting composition
8390	February 6	William Henry Coward ... ..	Improvements in mills for crushing or pulverizing ores and other substances
8403	February 6	Edward Samuel Oliver ... ..	An improved hand tool, principally applicable for opening packing cases, and taking up and laying flooring boards
8404	February 6	Marcus Stow Hill ... ..	An improved pneumatic desiccating closet
7544	February 13	Matthew Thomas Chapman ... ..	Improvements in process and machinery for boring or drilling the earth
7640	February 13	Edward Hart ... ..	Improvements in machinery or apparatus for shearing or clipping sheep or other animals, parts of which improvements are also applicable for actuating or driving other machinery or apparatus
7678	February 13	William Duff Ritchie ... ..	An improved plough
7710	February 13	Matthew Sharp Rome ... ..	A system for the application of a remedial antidote in cases of snake bite, &c., without the aid of a doctor
8049	February 13	John Kempf Campbell ... ..	Asphalte composition
8136	February 13	George Goodlet ... ..	Improvements in machinery for compressing and accumulating air and water
8193	February 13	Gustaf Dillberg and James Alexander Philp	Improvements in printing appliances
8280	February 13	John James Woolgar ... ..	Improved appliances for the more effective combustion of fuel in boiler furnaces
8312	February 13	Charles Riddell ... ..	Improvements in the manufacture and application of the compounds of chloride of sulphur with fatty bodies
8323	February 13	Parnell Rabbidge ... ..	Improvements in telephones
8344	February 13	Franca Ann Fisher ... ..	A new or improved safe which is more especially applicable to storing and cooling butter

COMPLETE SPECIFICATIONS ACCEPTED—continued.

No.	Date of Publication.	Name.	Title.
1891.			
8361	February 13	William Holme Davis ... ..	Improvements connected with aerated liquor fountains
8377	February 13	William Lacy Clark ... ..	Improvements in machinery for heating carpets
8384	February 13	Horace Arthur Grayson ... ..	Improvements in alphabetical and other indexes
8386	February 13	Thomas Alva Edison ... ..	Improvements in methods and apparatus for applying the power of electric motors, especially applicable to electric railways
8393	February 13	Herbert Oates Capes ... ..	An improved compound for removing paint, rust, and other coating from metal and other surfaces
8395	February 13	Albert Swanson and William Downham Rowlingson	Improvements in disc harrows
8396	February 13	Thomas Edwards and Joel James Deehle	Improvements in ore furnaces
8397	February 13	Fred. Walsh, on behalf of The Parke and Lacy Company	Improvements in certain descriptions of ore concentrators
8405	February 13	Theodore Weld Sterling ... ..	Striking devices
8406	February 13	Theodore Weld Sterling ... ..	Rock-drilling machines
8415	February 13	Edmond Rich Gabbett ... ..	Improvements in apparatus for mixing, incorporating, or effecting the circulation of liquids and semi-liquids in vessels, also applicable to the treatment of ores
8425	February 13	McHenry England ... ..	An improvement in kettles and other utensils in which liquids are boiled
7611	February 20	Alfred Elijah Cropley ... ..	Cropley's patent improved wood-splitting maul
7665	February 20	William Barwick Fox ... ..	Improvements in horse collars
7674	February 20	Thomas Clement Hodgkinson ... ..	An improved medical, electrical, and self-contained coil and battery to be used in the practice of electrical massage and other purposes
7686	February 20	Richard Alfred Busch ... ..	An improved method of manufacturing sheet metal signs
7697	February 20	Frederick George Reeves... ..	Improvements in meat-cutting machines
7855	February 20	William Francis Dugins ... ..	A check action blind roller
8094	February 20	Robert Hill Crowden ... ..	Certain improvements in or connected with brushes used by painters and others
8218	February 20	Samuel Telford Dutton ... ..	Improvements in interlocking apparatus for railway signalling
8256	February 20	Alfred Edmund Beard and Harry Sisson	Improvements in stump-jump ploughs and cultivators
8271	February 20	Walter Morrison ... ..	Revolving heel-plates for boots and shoes
8381	February 20	William McLean ... ..	Apparatus for automatically emptying, cleansing, and disinfecting night-soil pans and other utensils for similar purposes
8389	February 20	Edward Joseph Hardy ... ..	Improvements in the production of cold and ice, and in apparatus therefor
8417	February 20	William Henry James Rasell ... ..	Emptying night-pans in close chamber and preventing evaporation of noxious gases, and cleansing and returning pans with coverings
7416	February 20	David Edwards ... ..	Improvements in the rising-beam of jump ploughs and cultivators
8742	February 27	Michael McDermott, Thomas McDermott, and Peter McDermott	Improved mechanism for locking and releasing trap-doors in the bottom of ballast trucks
7745	February 27	James Turnbull Anderson ... ..	Improvements in and connected with type employed for head-lines of newspapers and the like
7758	February 27	Henry Williams ... ..	An apparatus for holding open and automatically closing gates
8039	February 27	Richard Hornsby and Sons Limited	Improvements in harvesting machines
8152	February 27	David Mudie ... ..	A quartz-crushing, amalgamating, and gold-saving machine
8272	February 27	Carl Lübrig and John Charles Cummings	Improvements in apparatus for washing, separating, and concentrating ores of different specific gravities
8298	February 27	John Tomner Kelly and Archibald McIntyre	Raising sunken vessels
8328	February 27	John Tyler, George Meacham, and William Albert Blandford	A rotary motor for the driving of governors for regulating marine and other engines
8335	February 27	William Parker ... ..	An improved portable press for hay, straw, and the like
8398	February 27	Robert Davy Bowman ... ..	Improved process and apparatus for the production of oxygen gas
8431	February 27	Arthur Helwig ... ..	Improvements in button-hole sewing machines
8433	February 27	Herbert Akroyd Stewart and Charles Richard Binney	Improvements in engines operated by the explosion of mixtures of combustible vapours or gas and air
8434	February 27	Howard Matravers Asksley ... ..	Improvements in apparatus for the manufacture of glass bottles and similar hollow glass articles
8437	February 27	John Robert Topliss ... ..	Type-distributing machine
8444	February 27	Walter Thomas Lewis ... ..	An improved furnace for the better combustion of fuel

APPLICATIONS ACCEPTED.

No.	Date of Acceptance.	Name.	Title.
1891.			
8320	February 23	Edward Hughes, Edward Joseph Rigby, and John Sinclair Pirrie	An improved centrifugal pump, specially applicable for dredging purposes
8336	February 2	Robert Marshall Day ... ..	An improved coin-free apparatus for delivering liquids
8340	February 2	Andrew Honman and Victor Vulhez	An improved process of extracting silver from lead ores
8353	February 9	Joseph Lorenz and Jules Joseph Lacharme	An improved flexible shaft
8354	February 2	John Greenhill and William Gardner	Improvements in wood-sawing machinery
8360	February 2	Moritz Wolf Judell ... ..	Improvements in construction of vehicles and chambers for the conveyance or storage of perishable articles of food
8363	February 6	Henry Bland ... ..	Improvements in machinery for excavating and removing earth for agricultural subsoiling, for extracting roots and stumps, and for haulage purposes
8368	February 2	James Augustus Parker ... ..	An improved horseshoe
8370	February 2	William Frederick Startup ... ..	Catching sparks on railway engines
8374	February 2	Richard Wood Davies and Herman Steinberg Pieremont	Improvements in brick-making machinery
8375	February 2	Richard Wood Davies and Herman Steinberg Pieremont	Improvements in brick-making machinery
8376	February 2	Richard Wood Davies and Herman Steinberg Pieremont	Improvements in brick-making machinery
8378	February 12	John Joseph North ... ..	An improved cigar extinguisher
8379	February 11	Alfred Upton Alcock ... ..	Improved method of propelling electric cars or other vehicles
8380	February 9	Joseph Lathlean ... ..	An apparatus for indicating the order of arrival of the competitors in a race, to be called "The runners' silent judge"
8383	February 2	Edward Jordan ... ..	An improved up-draught cowl
8392	February 2	Henry Charles Mervin ... ..	Improvements in apparatus for automatically distributing disinfecting material in earth closets
8401	February 2	Montague Arthur Croft ... ..	Improvements in spring backs for chairs, lazy backs, and other seats
8407	February 6	James Jackson ... ..	An improved stump-jumping plough

APPLICATIONS ACCEPTED—*continued.*

No.	Date of Acceptance.	Name.	Title.
1891.			
8408	February 4	Samuel May ... ..	An improved rising beam and means of supporting it on stump-jump ploughs and cultivators
8409	February 6	John Meekiff ... ..	An improved construction of boat
8410	February 12	James Simpson ... ..	Improvements in potato diggers
8411	February 4	Wm. B. H. Watkins ... ..	An improved railway carriage door-stop
8412	February 11	Israel Martin ... ..	An improved potato-planting device for attachment to ploughs
8416	February 26	Henry Breton ... ..	An improved process of marking and identifying the machines or combs used in shearing sheds
8419	February 10	Samuel Purdy ... ..	An improved potato digger and screener
8422	February 17	Richard Boyd Echlin and Horace John Page	An improved machine for issuing tickets, receipts, checks, &c., and for recording the number issued
8426	February 24	David Watts ... ..	A motive power
8428	February 5	Anketell Matthew Henderson ...	An improved construction of building for minimizing the danger of fires
8429	February 4	William Priessnitz Bonwick ...	Improvements relating to bottles and in the means for closing and opening them
8439	February 12	Charles O'Connor ... ..	An improved elevator and fire-escape
8440	February 12	Frank Arthur Harris, William Machar, and William George Sandys	An improvement in the manufacture of earthenware drain pipes and linings for sewers
8441	February 24	Frank Miller Brown ... ..	Improved means for fixing glass in railway carriage and other windows
8447	February 24	Solomon Cox ... ..	A new compound for blistering and curing sprains, swellings, mange, and other skin and foot diseases in horses, bullocks, dogs, sheep, and other animals
8455	February 25	Henry Jeremiah Smith and Hubert Willy Christian Henricks	An improved apparatus for milking cows
8466	February 27	George Higgins ... ..	Improvements relating to the attachment of the uppers to the soles of boots and shoes for the purpose of making them waterproof
8458	February 26	George Smerdon ... ..	A clothes-washing appliance to be used with a wash-board
8461	February 19	Thomas Andrews ... ..	Improved means for locking nuts on bolts
8463	February 26	Eli Howarth ... ..	An improved automatic coupling for railway and other rolling-stock
8467	February 27	Frederick George O'Bree and James Wildren Buckingham	Improvements in ploughs and cultivators to facilitate their passing obstructions
8470	February 26	John Gillett ... ..	An improved automatic lock or stop-brake for road vehicles

## APPLICATIONS REFUSED.

Date of refusal, 11th February, 1891.

No. 8069. By Charles Andrews, for "An improved portable cooking stove."

## APPLICATIONS ABANDONED AND OPPOSED.

None.

## LETTERS PATENT SEALED.

No.	Date of Sealing.	Name.	Title.
1891.			
7631	February 27	Samuel Lord Sharrock ... ..	Improved arrangements of indicating apparatus for hydraulic elevators and other analogous constructions
7660	February 23	Josiah Clifton Firth ... ..	An improved insulating and fire-proof material
7753	February 17	James Pliny Perkins ... ..	Improved paint base and pigment and processes for producing the same
7766	February 9	James Pratt Dempster ... ..	An improved machine for pulling up trees
8014	February 9	James Anderson ... ..	Anderson's combined potato planter, digger, and gatherer
8026	February 17	Donald Grant Brown ... ..	Preventing any nut from loosening or coming off any bolt
8115	February 17	Frederic George Moore ... ..	A new or improved spraying apparatus
8119	February 27	Frederick York Wolseley ... ..	Improvements in machines for shearing or clipping sheep and other animals
8120	February 23	Edmund Hesketh Davies ... ..	Improved means for adjusting the position of the axle of two-wheeled vehicles according to the position of the load
8188	February 9	John Kueffer ... ..	Improvements in station indicators for railway cars or carriages, and means for operating the same
8191	February 9	George Ross McKenzie ... ..	An improved cement for joining wood, stone, and other materials
8198	February 23	Arthur Onslow Whittington and Joseph George Nash	Improvements in embossing and other similar presses
8203	February 17	George Von Kauffmann ... ..	Improvements in pressure-regulating valves
8215	February 9	Alexander Stanloy Elmore ... ..	Improvements in the process for obtaining zinc by electrolysis
8216	February 9	Theophilus Coad ... ..	Improvements in fluids for primary batteries
8232	February 9	Frederik Petersen ... ..	Improvements in dredging machinery
8240	February 27	Francis Ellershausen ... ..	Improvements in the manufacture of caustic soda
8241	February 23	Francis Ellershausen ... ..	Improvements in the manufacture of sulphide of sodium
8242	February 9	Edgar Martin ... ..	Improvements in filtering machinery
8243	February 9	Samuel Howard Stott ... ..	Improvements in apparatus for diffusing upon plants fertilizing, insect-destroying, or other compounds
8255	February 17	Patrick Bernard Delaney ... ..	Improvements in multiplex telegraphy
8259	February 23	Frederik Petersen ... ..	Improvement in dredging machinery
8266	February 27	Alfred Nobel ... ..	Improvements in the manufacture and application of explosive compounds
8267	February 17	John Abbott ... ..	An improved means for loading and unloading vessels
8268	February 17	Alfred Julius Boulton ... ..	Improvements in or relating to pneumatic guns
8287	February 23	Sydney Hood Thorp ... ..	An improved apparatus for affixing adhesive stamps
8308	February 27	Joseph Yates ... ..	An appliance to facilitate taking pills (medicine)

LINE NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
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