

SUPPLEMENT

TO THE

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International and Intercolonial Arrangements for the Mutual Protection of Inventions.

INTERNATIONAL CONVENTION.

THE following countries now belong to the Convention:—

- | | |
|------------------------------------|--|
| Belgium. | Mexico. |
| Brazil. | New Zealand. |
| Ceylon. | Norway. |
| Cuba. | Portugal, with the Azores and Madeira. |
| Denmark. | Servia. |
| Dominican Republic. | Spain. |
| France, with Algeria and Colonies. | Sweden. |
| Germany. | Switzerland. |
| Great Britain. | Tunis. |
| Italy. | United States of America. |
| Japan. | |

Separate arrangements have been made between Australia and New Zealand.

Particulars of the Convention and of such arrangements may be seen in the following *Gazettes*:—

Notification of adhesion of New Zealand to the Convention, with text thereof (in English), in the *Gazette* of 26th November, 1891; notification of adherence of New Zealand to the Additional Act of the Convention, with text (in English), of such Additional Act, in Patents Supplement to *Gazette* No. 101, of the 16th November, 1905; Order in Council applying section 103 of the Imperial Act to New Zealand, in *Gazette* No. 27, of the 15th May, 1890; Orders in Council containing arrangements between Australia and New Zealand, in Patent Supplements to the *Gazette* Nos. 22 of the 9th March, 1905, and 38 of the 20th April, 1905.

Patents Supplement to Gazette.

PERSONS interested in Patents, Designs, and Trade Marks will find valuable information about such matters in the Patents Supplement to the *Gazette*, issued fortnightly. Each number contains a list of applications for patents during the current fortnight, claims and drawings of complete specifications that have been accepted, lists of trade marks and designs registered, latest official information, &c.

Single copy: Price, 6d. } Postage included.
Annual subscription: 10s. }

Obtainable from the Government Printer, Wellington.

Patent Publications in New Zealand.

THE following publications relating to Patents for inventions, &c., are open to inspection in the colony:—

WELLINGTON.—PATENT OFFICE LIBRARY.

United Kingdom.

The full text of the specifications and complete drawings of inventions patented from the year 1617 up to the 22nd November, 1906.

Classified illustrated abridgments of inventions from 1855 to 1904.

Illustrated Official Journal, containing lists of recent applications, abridgments of inventions for which patents have been lately granted, patents void, &c., to February, 1907.

Index of Applicants.

Subject-matter Index.

Commissioner of Patents Journal, &c.^(a).

Trade Marks Journal to December, 1906.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) to August, 1906.

Australia.

The full text of the specifications and complete drawings in respect of applications accepted from the 11th January to the 21st March, 1906, inclusive.

The Official Journal of Patents of the Australian Commonwealth (containing lists of applications for letters patent, abridgments of complete specifications accepted, &c.).

The Australian Official Journal of Trade Marks (containing lists of applications for registration of trade marks, &c.).

Specifications, drawings, abridgments, and indexes of Victoria, New South Wales, Queensland, and South Australia^(b).

United States.

The full text of the specifications and drawings for the first half of the year 1905.

The Official Gazette of the United States Patent Office (containing illustrated abridgments of specifications, &c.) to the 6th November, 1906.

Mexico.

The Official Gazette of the Patent and Trade Mark Office.

General.

La Propriété Industrielle (the official organ of the International Bureau of the Union for the Protection of Industrial Property).

Patent laws of the world.

Patent and Trade Mark Review.

Text-books and handbooks on patents and trade marks.

AUCKLAND.—PUBLIC LIBRARY.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.

Illustrated Official Journal from 1897 to date.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) from 1897 to date.

Australia.

The Official Journal of Patents from 1905 to date.

United States.

The Official Gazette of the United States Patent Office (containing illustrated abridgments of specifications, &c.) from 1885 to 1887 and 1890 to 1895.

(a) Discontinued.

(b) In arrear. Not now being printed.

CHRISTCHURCH.—PUBLIC LIBRARY.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.
Illustrated Official Journal from October, 1905, to date.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) from 1897 to date.

Australia.

The Official Journal of Patents from 1905 to date.

DUNEDIN.—TOWN HALL.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.
Illustrated Official Journal from October, 1905, to date.

Australia.

The Official Journal of Patents from 1905 to date.

Books and Documents open to Inspection at Patent Office, Wellington.

THE following documents and books are open to public inspection at the Patent Office:—

PATENTS.

(Fee for each search or inspection, not exceeding one hour, 1s.)

1. The files relating to all applications for letters patent in respect of which complete specifications have been accepted.
2. Classified copies of specifications and drawings, with index and key^(a).
3. Register of Applications for Letters Patent.
4. Register of Patents.
5. Register of Subsequent Proprietors of Letters Patent^(b).
6. Index of Patentees^(c).
7. Index of Proprietors of Letters Patent granted prior to 1890^(d).
8. Index of Specifications^(e).

DESIGNS.

(Search fee, 1s. each quarter of an hour.)

1. Register of Designs, with Index of Names of Proprietors.
2. Classified Representations of Designs in respect of which Copyright has expired.
3. Index of Designs.

TRADE MARKS.

(Search fee, 1s. each quarter of an hour.)

1. The files relating to all applications for registration of trade marks.
2. Register of Applications for Registration of Trade Marks.
3. Register of Trade Marks.
4. Index of Applicants for Registration of Trade Marks^(f).
5. Index of Trade Marks.
6. Classified Representations of Trade Marks, with indexes.

MISCELLANEOUS.

Register of Patent Agents.

FORMS AND PUBLICATIONS.

The following forms, &c., may be had on application at the Patent Office, Wellington, or at any of the local Patent Offices named below:—

- Application for letters patent.
- Provisional specification.
- Complete specification and copy thereof.
- Application for registration of design.
- Application for registration of trade mark.
- Applications for extension of time.
- Requests by subsequent proprietor to enter name on Register of Patents and Trade Marks.
- Printed sheets of information as to fees and procedure to obtain letters patent and to register a trade mark^(g).
- Pamphlet containing Act and Regulations (price 1s.).

(a) Key is in card index.

(b) This Register contains only names of subsequent proprietors of letters patent granted prior to 1st January, 1890; since that date they appear in Register of Patents.

(c) Includes all names of applicants, &c., and consists of four volumes to 4th November, 1903, and card index since that date. A separate card index is kept for current quarter.

(d) The names of proprietors of subsequent letters patent appear in the Index of Patentees.

(e) Contains classified abridgments of specifications from 1861, with extracts from drawings from July, 1904.

(f) Names of applicants for registration and proprietors of trade marks are indexed at the beginning of the Registers up to 31st December, 1889, in separate volume up to 5th September, 1904; and since the latter date in card index.

(g) May also be obtained at any local Patent Office or money-order office.

Official Publications.

THE following publications may be obtained from the Government Printer, Wellington:—
 Printed specifications to the end of the year 1879.
 Annual lists of letters patent and letters of registration applied for, and particulars of applications lapsed, and patents lapsed, from 1880 to 1888 inclusive.
 Annual reports of the Registrar, containing alphabetical lists of applicants for letters patent and of inventions patented from 1889 to 1905 inclusive.
 The Patents Supplement to Gazette (containing notifications, applications for letters patent, abridged descriptions and drawings of inventions, &c.), published fortnightly.

Local Patent Offices.

LOCAL Patent Offices for supplying forms and for receiving applications for transmission to the Patent Office without extra charge have been established at the following places:—

- | | | |
|--|---|-------------------------|
| Auckland
Gisborne
Napier
Nelson
Blenheim
Christchurch
Dunedin | } | Supreme Court Offices. |
| Thames
Wanganui
Greymouth
Timaru
Oamaru
Ashburton
New Plymouth
Westport
Hokitika
Invercargill
Queenstown | } | District Court Offices. |

PATENT AGENTS.

A list of registered patent agents may be obtained on application.

Applications for Letters Patent filed.

- LIST of applications for Letters Patent filed. (Where a complete specification accompanies an application an asterisk is affixed; in all other cases a provisional specification has been lodged. In cases where the applicant is not the inventor the name of the latter appears in italics after the title.)
- No. 22561.—20th March.—H. Mackay, Martinborough, N.Z.
Bicycle chain-guard.
 - No. 22562.—20th March.—G. Hutchinson, Christchurch, N.Z.
Seed-sower.
 - No. 22563.—20th March.—D. W. McLean, Methven, N.Z.
Tire.
 - No. 22564.—20th March.—E. N. Waters, Melbourne, Vic.
Cable chain-grip.* (*A. Dixon—G. S. Fonts.*)
 - No. 22565.—19th March.—L. A. Pannell, Christchurch, N.Z.
Adjusting and measuring hobbles for horses.
 - No. 22566.—20th March.—W. E. Hughes, Wellington, N.Z.
Finishing and cooling curved stereotypes.* (*Printing Machinery Company, Limited—H. A. W. Wood.*)
 - No. 22567.—20th March.—W. E. Hughes, Wellington, N.Z.
Finishing, cooling, and drying curved stereotypes.* (*Printing Machinery Company, Limited—H. A. W. Wood.*)
 - No. 22568.—20th March.—H. P. Pearson, Manchester, Eng.
Hats of straw, palm-leaf, &c.*
 - No. 22569.—20th March.—Linotype and Machinery Limited, London, Eng.
Printing-machine.* (*T. R. G. Parker.*)
 - No. 22570.—20th March.—United Shoe Machinery Company, Paterson, U.S.A.
Pounding-up machine. (*C. E. Shattuck.*)
 - No. 22571.—20th March.—United Shoe Machinery Company, Paterson, U.S.A.
Grooving or channelling attachment for sewing-machine. (*J. V. Allen.*)
 - No. 22572.—20th March.—S. W. Winslow, Beverly, U.S.A.
Buffing and abrading machine. (*A. W. Rogers.*)
 - No. 22573.—20th March.—C. A. Kidd, Christchurch, N.Z.
Bicycle pedal-strap.*

- No. 22574.—20th March.—B. G. C. Stephens and B. G. Mahoney, Dunedin, N.Z.
Inflating tires of motor-cars.
- No. 22575.—20th March.—M. G. Wilson, Rongotea, N.Z.
Collapsible box.
- No. 22576.—21st March.—A. Hankinson, Sydney, N.S.W.
Wire lattice for reinforcing concrete floors.*
- No. 22577.—21st March.—A. A. Walters, Melbourne, Vic.
Opening or closing lift or elevator doors.*
- No. 22578.—21st March.—A. E. Young, Christchurch, N.Z., and E. G. Kerr, Timaru, N.Z.
Machine for issuing checks or tickets.*
- No. 22579.—21st March.—The Kendrick and Hill Manufacturing Company, Denver, U.S.A.
Lawn-mower.* (*A. Hill.*)
- No. 22580.—21st March.—J. Whitehouse, Waihi, N.Z.
Wire-mattress bed.*
- No. 22581.—22nd March.—A. Storrie, Invercargill, N.Z.
Vacuum milking-can.
- No. 22582.—22nd March.—G. W. Wilkins, Peshurst, Vic.
Solution for rendering fabrics fireproof.
- No. 22583.—13th March.—J. Thomson, Invercargill, N.Z.
Spring tire for vehicle-wheels.
- No. 22584.—20th March.—J. Burrows, Auckland, N.Z.
Hose-darner.
- No. 22585.—23rd March.—J. A. Steele, Tamaheri, N.Z.
Apron of harvester-binder.*
- No. 22586.—23rd March.—J. and H. M. Copeland, Palmerston North, N.Z.
Telephony.
- No. 22587.—23rd March.—J. and H. M. Copeland, Palmerston North, N.Z.
Telephony.
- No. 22588.—19th March.—E. S. G. Rees, Wolverhampton, England.
Rotary pump and turbine.*
- No. 22589.—20th March.—B. A. O. Prollius, Copenhagen, Denmark.
Distance pieces for the insertion-plates of centrifugal machines.*
- No. 22590.—20th March.—K. Gillingham, Dunedin, N.Z.
Oven of cooking-range.
- No. 22591.—21st March.—R. B. Williams, Winton, N.Z.
Umbrella.
- No. 22592.—21st March.—J. H. and P. Walker, Dunedin, N.Z.
Safety cock and tan.*
- No. 22593.—22nd March.—T. R. Christie, Dunedin, N.Z.
Skvlight.
- No. 22594.—25th March.—C. H. Matthews, Wellington, N.Z.
Means for re-covering billiard-tables.
- No. 22595.—25th March.—F. H. Lampen, Wellington, N.Z.
Range-finder.
- No. 22596.—23rd March.—E. T. Coppell, Kaitaia, Auckland, N.Z.
Self-centring lathe-chuck.
- No. 22597.—23rd March.—E. T. Coppell, Kaitaia, Auckland, N.Z.
Automatic mechanism attached to lathes for replacing callipers, &c.
- No. 22598.—23rd March.—H. Rochfort, Auckland, N.Z.
Filtering suction hose.*
- No. 22599.—26th March.—H. A. Adams, Linton, Vic.
Document-files and assembling-means.*
- No. 22600.—26th March.—G. D. Lumsden, Christchurch, N.Z.
Steamer and strainer for cooking utensils.
- No. 22601.—26th March.—A. Rowlands, Wellington, N.Z.
Motor-tire.
- No. 22602.—27th March.—H. E. White, Christchurch, N.Z.
Concrete-mixing machine.
- No. 22603.—27th March.—N. Olsen, West Plains, N.Z.
Opening and shutting gates.*
- No. 22604.—26th March.—W. Jamieson, Christchurch, N.Z.
Rotary engine.
- No. 22605.—25th March.—G. E. Woodbury, San Francisco, U.S.A.
Ore-concentrator.
- No. 22606.—25th March.—International Sand-blast Company, San Francisco, U.S.A.
Sand-blast apparatus.* (*W. H. Kelly.*)
- No. 22607.—25th March.—F. W. Barton, Dunedin, N.Z.
Cellar lift for casks or packages.*
- No. 22608.—28th March.—R. R. Richmond and A. H. Byron, Wellington, N.Z.
Bricks and method of laying same.
- No. 22609.—28th March.—A. G. Andin, Glenferrie, Vic.
Milking-machine.
- No. 22610.—28th March.—J. J. F. M. Smulders, Rotterdam, Holland.
Lighter, or vessel from which coal is discharged.*

- No. 22611.—28th March.—J. J. F. M. Smulders, Rotterdam, Holland.
Continuous conveyors used in conveying coal, &c.*
- No. 22612.—28th March.—E. S. Slee, North Carlton, Vic., and P. Tremayne, Brunswick, Vic.
Machine for sweeping and elevating road-refuse, &c.
- No. 22613.—28th March.—A. Crichton and W. Williams, Dunedin, N.Z.
Adjustable chair.*
- No. 22614.—28th March.—F. Cotton, Hornsby, N.S.W.
Treating ores containing iron.*
- No. 22615.—26th March.—J. Peterson and J. Wearn, Invercargill, N.Z.
Cream-cooler.
- No. 22616.—2nd April.—W. Alexander, Wellington, N.Z.
An accessory of temperature and moisture testers.
- No. 22617.—2nd April.—D. J. Young, Ohinemuri, N.Z.
Fire-kindler.
- No. 22618.—25th March.—D. McKenzie, Auckland, N.Z.
Wire mattress and bedstead.
- No. 22619.—27th March.—J. Sharpe, Glebe, N.S.W.
Bottle or jar for liquids under pressure.
- No. 22620.—28th March.—J. P. Horner, Epsom, N.Z.
Shaft-tug.
- No. 22621.—28th March.—R. R. Douglas, Dunedin, N.Z.
Machinery-rollers.
- No. 22622.—2nd April.—H. Wilkenning, Clifton Hill, Vic.
Belt and conveyor fastenings.
- No. 22623.—2nd April.—F. A. Kjellin, Stockholm, Sweden.
Method and furnace for reducing metals.*
- No. 22624.—2nd April.—J. H. Warren, Albert Park, Vic.; T. Blades, Footscray, Vic.; and J. Wren, Kew, Vic.
Railway-signalling.*
- No. 22625.—2nd April.—E. S. Baldwin and H. H. Rayward, Wellington, N.Z.
Rifle-sight.* (*The Sutherland Rifle Sight Company, Limited—M. E. Sutherland.*)
- No. 22626.—2nd April.—J. W. Harris, Montreal, Canada.
Excavator.* (*L. A. Desy.*)
- No. 22627.—2nd April.—W. S. Cobham and H. H. Oxley, Wellington, N.Z.
Tip for the ends of chair, &c., legs.
- No. 22628.—2nd April.—F. R. Cotton, Christchurch, N.Z.
Telephone-subscribers list.
- No. 22629.—2nd April.—International Cigar Machinery Company, New York, U.S.A.
Cigar machinery.* (*O. Tyberg, W. S. Luckett, and M. Fogde.*)
- No. 22630.—2nd April.—E. H. Clift, Kensington, Eng.
Internal-combustion engine.
(Date applied for under section 106 of the Act, 28th March, 1906.)

Complete Specifications filed after Provisionals.

LIST of complete specifications filed after provisional specifications, from the 21st March to the 3rd April, 1907, inclusive:—

- No. 21190.—I. Russell, dress-cutting chart.
- No. 21213.—W. Madder, voting-machine.
- No. 21336.—A. J. Edwards, means for controlling trolley-poles.
- No. 21362.—R. E. Hay, rock- and clay-boring tool.
- No. 21364.—United Shoe Machinery Company, machine for and method of assembling parts, of boots and shoes. (O. Ashton.)
- No. 21365.—United Shoe Machinery Company, pounding-up machine. (O. Ashton.)
- No. 21368.—H. Watt, fastening and label check device for mail-bags.
- No. 21380.—J. O. Galbally, window-sash.
- No. 21395.—D. C. McArthur, gate-fastener.
- No. 21412.—P. J. Brown, water-pipe valve.
- No. 21414.—J. and W. J. O'Hara, adjustable fastenings.
- No. 21612.—J. J. Smith, road-sweeper and automatic loader.
- No. 21619.—J. G. Harrington and E. J. Brown, animal-decaudater.
- No. 21921.—E. Old, clamping-device.
- No. 22334.—T. Whitehorn, packing predetermined quantities in bags.
- No. 22444.—L. T. Reichel, baled-goods indicator.

Notice of Acceptance of Complete Specifications.

Patent Office,
Wellington, 3rd April, 1907.

COMPLETE specifications relating to the undermentioned applications for Letters Patent have been accepted, and are open to public inspection at this office. Any person may, at any time within two months from the date of this *Gazette*, give me notice in writing of opposition to the grant of any such patent. Such notice must set forth the particular grounds of objection, and be in duplicate. A fee of 10s. is payable thereon.

No. 20846.—14th March, 1906.—GEORG ULRICH, of Broken Hill, New South Wales, Commonwealth of Australia, Manager of the Australian Metal Company. An improved method of and apparatus for classifying or vaning ores or other materials.*

Extract from Specification.—This invention relates to the classification of ores or other materials. It consists in the herein-described method of and apparatus for classifying or vaning ores or other materials. It also provides for the removal of the dust adhering to, or otherwise mixed with, the particles of said ores or other material in dry classification. The invention is applicable to the classification of ores or other materials either by the wet or dry systems. According to this invention the material is subjected to a combined horizontally oscillating and vertically reciprocating motion, which has the effect of insuring a rapid and effective classification.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 15s.; drawing, 5s.)

No. 20847.—14th March, 1906.—GEORG ULRICH, of Broken Hill, State of New South Wales, Commonwealth of Australia, Manager of the Australian Metal Company. Improvements in the magnetic separation of ores and the like, and apparatus therefor.*

Extract from Specification.—This invention relates to the magnetic separation of paramagnetic ore, or of substances of different degrees of magnetic susceptibility. It has been devised for the purpose of providing a simple and highly efficient machine, capable of producing ore-concentrates of the highest grade. The invention is moreover specially adapted for working under the wet system of magnetic separation. One of the main features of this invention is that it provides, in a single mechanical construction, a magnetic separator possessing fields of widely different magnetic intensity, so that the ore-particles, whether of the strongest or weakest magnetic susceptibility, will be strongly attracted and held against the surface of certain separating-rings whilst passing out of the magnetic field.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, £1 ls.; drawing, 5s.)

No. 20873.—19th March, 1906.—EDWARD HORATIO WADINGTON, of Masterton, New Zealand, Printer. An improved cinder-sifter.*

Claims.—(1.) In cinder-sifters of the class described, the combination with an enclosed containing-box and a riddle, of a frame adapted to hold the riddle in a horizontal condition and to leave its bottom uncovered, and arms pivotally hung upon the sides of the containing-box, having their lower ends attached to the riddle-supporting frame, substantially as specified. (2.) The improved cinder-sifter, substantially as described and explained, and as illustrated in the drawings.

(Specification, 2s. 3d.; drawing, 1s.)

No. 20874.—19th March, 1906.—DAVID HARTWELL, of Wellington, New Zealand, Seaman. Improvements in machines for dressing flax.*

Claims.—(1.) In machines for dressing flax of the class described, providing the steam-supply pipe with a splayed or distended nozzle, the mouth of which extends across the width of the beater-block, substantially as and for the purpose specified. (2.) The improvements in flax-dressing

machines of the class referred to, substantially as described and explained, as illustrated in the drawings, and for the purposes specified.

(Specification, 2s. 6d.; drawing, 1s.)

No. 20891.—21st March, 1906.—WILLIAM DAVID MARTIN, of Alma Street, Ashfield, near Sydney, Australia, Engineer, and NENIAN MILLER THOMSON, of York Street, Sydney aforesaid, Merchant. An improved apparatus for heating water and circulating the same where required.

Claims.—(1.) In water-heaters, a perpendicular pipe D having an inlet at the top connecting to a coil at the bottom, in combination with the cylinders A and B, substantially as described and explained, and as shown in the drawings. (2.) In water-heaters, cylinders such as A and B and pipe D in combination with a coil F, substantially as described and explained, and as shown in the drawings. (3.) In water-heaters, cylinders such as A and B, pipe D, coil such as F forming a complete water-heater, in combination with a storage-vessel such as H, for the complete heating and circulating of water to any required prearranged destination, as shown in Fig. 3, substantially as described and explained, and as shown in the drawings.

(Specification, 4s. 9d.; drawing, 1s.)

No. 20895.—22nd March, 1906.—JAMES REYNOLDS, of Bealey Street, Hokitika, New Zealand, Contractor. A direct saw-set.

Claims.—(1.) The divisions which rest against the inner side of teeth, and when set is hammered on cause the teeth to bend outwards. (2.) The guards on divisions which prevent teeth bending outwards too far.

(Specification, 1s. 3d.; drawing, 1s.)

No. 21004.—17th April, 1906.—ALEXANDER SAMUEL SARGISON, of Revell Street, Hokitika, Westland, New Zealand, Jeweller; ALFRED JOHN DEBENHAM, of Revell Street aforesaid, Tinsmith; and CHARLES FREDERICK ALLAN CAMBRIDGE, of Camerons, Greymouth, Westland aforesaid, Flaxmillier. An improved music-stand for brass and similar bands.*

Claims.—(1.) For the purpose indicated, a series of supporting-legs connected together by rivets and forming a continuous circle, and collapsible bars for supporting music connected to the said supporting-legs, substantially as set forth. (2.) In a band-stand constructed as described in claim 1, means for supporting the music-bars consisting of links connected to the top of the supporting-legs and the music-bars, substantially as set forth. (3.) A band-stand which when in use forms a continuous circle whereon the music of a whole band may be supported, and which when not in use may be folded together and secured by a strap to occupy small space, substantially as set forth. (4.) The combination and arrangement of parts comprising the improved music-stand for brass and similar bands, substantially as and for the purposes specified, and as illustrated in the drawing.

(Specification, 3s. 6d.; drawing, 1s.)

No. 21072.—3rd May, 1906.—UNITED SHOE MACHINERY COMPANY, of Paterson, in the State of New Jersey, United States of America, a corporation duly organized under the laws of said State of New Jersey, and having a place of business at 205 Lincoln Street, Boston, Commonwealth of Massachusetts, in said United States of America (assignees of Arthur Ernest Jerram and Arthur Bates, both of Leicester, England, Engineers). Improvements in machines for use in the manufacture of boots and shoes.*

Claims.—(1.) In an edge-setting or like machine wherein a rotary member and an oscillatory member are used the one to operate the other through an exaxial portion on the rotary member, the employment of a sleeve that coacts with the exaxial portion is connected to the oscillatory member by a pivotal connection transverse to the axis of oscillation of that member, and serves the double purpose of supporting the rotary member and of oscillating the oscillatory member. (2.) An edge-setting or like machine comprising in combination a plurality of oscillatory members, a rotary member intermediate of them having exaxial portions, and sleeves that support the rotary member and that impart oscillatory movement to the oscillatory member, and are not only connected

pivotal to the oscillatory member by connections transverse to the axes of oscillation thereof, but also coact with the said exaxial portions. (3.) A construction of the kind claimed in preceding clause No. 2, with its parts so disposed that when operated they are in balance or approximately so about a pulley on the rotary member. (4.) In the construction claimed in claiming clause No. 1 and No. 2, or No. 3, the employment of a lubricant-raising chain and a spirally grooved exaxial portion, and conduits to conduct to a higher level oil forced through the spiral groove. (5.) In an edge-setting or like machine having a vibrating tool, the employment of a yielding member arranged to exert a thrust in one direction upon the tool through parts that do not aid in effecting the vibratory movement, and held from movement in the other direction by an abutment external to the vibrating mechanism. (6.) In an edge-setting or like machine, the combination with (a) a part (for example, the shaft a) that transmits vibratory motion to a tool of (b) a yielding member (for example, the part E) that acts upon the tool at substantially its centre of vibration. (7.) The improved mechanism substantially as described or as illustrated in the drawings.

(Specification, 12s. 6d.; drawing, 2s.)

No. 21088.—28th April, 1906.—JAMES HAMILTON, of "Balamona," Winton, New Zealand, Farmer. A sectional sliding sheep-fence.*

Claim.—A fence comprising self-supporting standards, and rails connecting and having their ends pivotally attached to said standards, substantially as and for the purposes set forth. In a fence of the class described, a pivotal connection between the rails and the self-supporting standards consisting of the brackets 5 secured to the standards, pins 10, and straps 7, secured to the rails, substantially as described.

(Specification, 2s. 3d.; drawing, 1s.)

No. 21142.—15th May, 1906.—THOMAS EDWARD TAYLOR, of 199 Gloucester Street, Christchurch, Canterbury, New Zealand, Land and Estate Agent. Improved tramway-track cleaner.*

Claims.—(1.) In tramway-track cleaners of the class described, a metal blade suspended from the car and formed with a rib or flange on its underside adapted to enter the groove in the rail, and with rounded ends, substantially as specified. (2.) In tramway-track cleaners, the combination with a metal blade adapted to fit upon the rail, of a pair of downwardly depending rods secured at their lower ends to the blade, a cross-head connecting the top ends of the rods, a bolt passing through and secured to the cross-head, a sliding-piece mounted upon a horizontal bar secured to the framework of the car, and a helical spring attached at its lower end to the sliding-piece and at its upper end to the bolt passing through the cross-head, substantially as specified. (3.) The general arrangement, construction, and combination of parts comprising my improved tramway-track cleaner, substantially as described and explained, and as illustrated in the drawings.

(Specification, 3s. 6d.; drawing, 2s.)

No. 21216.—28th May, 1906.—CLEMENT LUCAS, of Wellington, New Zealand, Labourer. An improved hanger for scaffolding-brackets.*

Claim.—A hanger for scaffolding-brackets having a stem made up of a number of lengths pivoted together with their ends overlapping, substantially as specified.

(Specification, 2s. 3d.; drawing, 1s.)

No. 21238.—28th May, 1906.—JOSEPH O'HARA and WILLIAM JAMES O'HARA, of Papatoetoe, near Auckland, New Zealand, Coachbuilders and Agricultural-Implement Makers. Improvements in adjustable metal fastenings.*

Extract from Specification.—Fig. 1 is an elevation slightly in perspective, showing the plate a, and the supports bb, and the U bolt c, and the transverse bars e and f, securely held together, and both fastened to the plate a by the U bolt c, which passes through the plate. The supports bb may be integral with the plate a, and either stamped or forged out of it, as seen in the drawings, or they may be made separately, and either screwed, riveted, or bolted into the plate a, and

may be of any length, size, or shape required, to act as stays against side strains. The transverse bars *e* and *f* are thus stayed on every side—against themselves, against the plate *a*, and against the supports *bb*—and are held firmly together by the U bolt *c*, thus forming a fastening which is rigid in every direction. The fastening becomes adjustable by loosening the nuts *dd* on the U bolt *c*, when the bars *e* and *f* can be adjusted to any desired position.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 1s. 6d.; drawing, 1s.)

No. 21293.—13th June, 1906.—THOMAS WHITEHORN, of 19 Munro Street, Coburg, Victoria, Australia, Mechanic. Improved automatic machine for weighing tea, flour, and suchlike substances.*

Extract from Specification.—Upon the desired quantity being measured in the weighing-receptacle, the discharge of the material is stopped by spring doors, and then the bottom of the weighing-receptacle is opened and the weighed contents discharged, when said receptacle automatically returns to be again filled, and both the grid and spring doors are opened again. The whole of the mechanism, with the exception of that operating the feeding and stirring device, is controlled by electro-magnets, the circuits of which are completed by the oscillation of the balance weighing lever, and the only labour necessary to work the machine is that of feeding the material into the hopper, and removing the bags, cartons, or the like into which the weighed quantities are fed.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 14s. 6d.; drawing, 2s.)

No. 21534.—30th July, 1906.—THOMAS KEEPING FINNIGAN, of Koroit, Victoria, Australia, Saddler. Improvements in horse-collars.*

Claims.—(1.) A horse-collar rim having a metal core, material as paper coiled thickly around it, a cover of leather, and around the lower part of the said rim a secondary rim having an inner wire or the like stitched within the said leather, as described. (2.) In combination in a horse-collar, a main rim having a metal core, a shorter secondary rim having a wire or like centre, and metal caps with a fall and spring catch-plate to unite the rim-tops. (3.) Horse-collar caps constructed as illustrated in Fig. 1. (4.) In combination with a horse-collar rim-top, metal caps having the respective recess and projection *m* and *v* or the like, and means for holding the caps together, substantially as described.

(Specification, 4s. 3d.; drawing, 1s.)

No. 21809.—18th September, 1906.—ALEXANDER SMAILL, Jun., of Tomahawk, New Zealand, Farmer. Improved mouthpiece for teat-cups of milking-machines.*

Extract from Specification.—My mouthpiece is made preferably of aluminium, which is clean, light, and of good appearance. The upper end 1 of my mouthpiece has the usual opening 2 for the teat, but there are no holes round the sides 3 of this opening, as I have found that such holes can be dispensed with. The lower end 4 of the mouthpiece is cylindrical, and is adapted to fit over the upper end of the teat-cup 5 after the end of the rubber lining 6 has been turned over it as usual, as shown in Fig. 5. The internal diameter of the cylindrical portion of the mouthpiece at the lower end 7 is preferably about one-sixteenth of an inch smaller than it is at the upper end 8, so that when the mouthpiece is jammed on the end of the teat-cup 5 over the rubber lining 6 it holds automatically. I provide an air-inlet 9, which is the only hole made in my mouthpiece. All the parts are rounded off so as to prevent dirt collecting, and enable it to be readily cleaned.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 2s. 3d.; drawing, 1s.)

No. 21914.—12th October, 1906.—ALFRED MORRIS, of Green Island, Dunedin, New Zealand, Manufacturer. Improved waterproof-dubbing.

Claim.—Improved waterproof-dubbing consisting of bees-wax, resin, whale-oil, suet, and vegetable black compounded substantially in the proportions and the manner described.

(Specification, 2s.)

No. 21940.—19th October, 1906.—JASPER BURFOOT and ARTHUR BURFOOT, both of Auckland, New Zealand, Builders. Improvements in pneumatic wheels.*

Claims.—(1.) A wheel comprising a hollow hub, hollow spokes screwed at their inner ends into the hub, a felloe to which the outer ends of the hollow spokes are secured, a casing formed upon the felloe, a pneumatic tire contained in the casing, a boss within the hollow hub, spokes screwed at their inner ends into the boss and fitting slidably in the hollow spokes, shoes secured to the outer ends of the said spokes and resting upon the pneumatic tire, substantially as set forth. (2.) In a wheel constructed as set forth in claim 1, the employment of a rubber tire secured in a circumferential channel around the casing, substantially as set forth. (3.) In a wheel constructed as set forth in claim 1, the employment of a casing for a pneumatic tire comprising a felloe, a flange integral with the felloe, and an annular bracket detachably secured to the flange, substantially as set forth. (4.) The combination and arrangement of parts comprising the improvements in pneumatic wheels, substantially as and for the purposes specified, and as illustrated in the drawing.

(Specification, 3s. 6d.; drawing, 1s.)

No. 22116.—27th November, 1906.—SYDNEY DICKENS, of Carlton, Victoria, Australia, Apprentice. Improvements in musical instruments as mouth-organs and attachments therefor.*

Claims.—(1.) An attachment or horn having holding-lips or means between which a mouth-organ may be removably inserted. (2.) A mouth-organ horn having lips, one or more of which is or are adapted to close on or grip the organ by spring pressure. (3.) A mouth-organ having a greatly extended casing forming a horn, which is wide in front view and narrow in side view, substantially as described. (4.) A mouth-organ attachment or horn having one or more hinged lips, substantially as described. (5.) A mouth-organ attachment or horn into which the organ is to be inserted into playing position by inserting the organ at the outer or large end of the attachment or horn. (6.) A horn or attachment having one or more internal supports for a mouth-organ. (7.) A mouth-organ attachment comprising a series of collapsing members adapted to form a horn, the said members not being circular in cross-section. (8.) A mouth-organ attachment or horn end substantially as illustrated in Fig. 11. (9.) Horn or horn-attachment lips to receive and hold in place a mouth-organ having a convex casing as described relatively to Fig. 7. (10.) A horn in combination with an attachment as described relatively to Fig. 12, a mouth-organ being connectable to the said attachment in any suitable manner. (11.) A collapsible mouth-organ horn, hook, or projection, or plurality of hooks or projections, internally arranged, substantially as described. (12.) Mouth-organ collapsible horn attachments comprising, at or near the horn small end, fixed or adjustable external arms or stopping-means as described.

(Specification, 6s. 6d.; drawing, 1s.)

No. 22161.—5th December, 1906.—JOHN PETTIT, of Mercer Street, Geelong, Victoria, Australia, Timber Merchant (assignee of Otto Emil Alexander Sturmhoebel, Carpenter, care of John Pettitt aforesaid). Improvements in and connected with field or other gates.

Claims.—(1.) In field or other gates, a gate having a fixed catch-pin, an inner vertical member pivoted to and resting upon the outer ends of gate-levers, the inner ends of which are integrally or detachably attached to a hinging-pin, said hinging-pin having integral therewith or attached thereto the inner end of a spring lever, the outer end of which spring lever has attached to it one end of a spring, the other end of which is attached to the upper horizontal member of the gate or an adjustable spring holder attached thereto, a quadrant attached to said hinging-pin having guards thereon, all as and for the purposes described or as illustrated in the drawings. (2.) Improvements in and connected with field or other gates consisting of posts, to each of which posts is attached a chain or rope wheel operated by a crank-handle, a vertically sliding catch-pin working within a catch-plate attached to each post, a locking-post having a catch-case in which are two vertically sliding catch-plates, a hinging-post to which bearings are attached, in which bearings turns a hinging-pin, a quadrant attached to said hinging-pin, chain or rope guards extending from said quadrant, the two ends of a chain or rope attached to said quadrant, said chain or rope passing over the chain or rope wheels before referred to, a spring lever attached to said hinging-pin, to which spring

lever is attached one end of a spring the other end of which is attached to the gate or to an adjustable spring holder thereon, an upper and a lower gate lever integrally or detachably attached to said hinging-pin, the inner vertical member of the gate pivoting to the outer ends of said gate-levers, a fixed catch protruding from the gate, all as and for the purposes described or as illustrated in the drawings.

(Specification, 5s. ; drawing, 1s.)

No. 22271.—5th January, 1907.—WILLIAM WILSON, of North-east Valley, Dunedin, New Zealand, Carpenter, and THOMAS PATRICK BURKE, of Dunedin aforesaid, Government Poultry-grader. An improved egg-carrier.*

Claims.—(1.) In egg-carriers of the class referred to, egg-holders each formed of two correspondingly shaped portions secured respectively to opposite points upon adjacent battens of the frame, each of such portions being composed of a length of wire bent into approximately M shape, having its central members curved backwards to conform to the curve in an egg's surface while the bottom extremities of its two outer members are adapted to be fastened to the batten, substantially as specified. (2.) The improved egg-carrier, substantially as specified and as illustrated in the drawings.

(Specification, 2s. 6d. ; drawing, 1s.)

No. 22370.—31st January, 1907.—CHARLES MARTIN, of Eltham, Taranaki, New Zealand, Land and Commission Agent. Improvements in sliding the seat or seats of dog-carts, gigs, and other like wheeled vehicles.

Claims.—(1.) Improvements in sliding the seat or seats of dog-carts, gigs, and other like wheeled vehicles, comprising a spindle mounted on bearings on the inner sides of the vehicle under the seat, a cog or sprocket wheel and cogged or sprocket sector wheel rigidly attached to such spindle, gearing with racks or cog-plates on the underside of seat, a handle or lever attached to spindle for operating the cog or sprocket wheel and cogged or sprocket sector wheel, and means for retaining the seat in position, substantially as described. (2.) The improvements above claimed in combination with a standard in which the cog or sprocket wheel is mounted, such standard being extended and bent at the top, as and for the purpose stated. (3.) The improvements above claimed in combination with a cog or sprocket wheel plate being bent at the side as and for the purpose stated. (4.) The improvements set out in claims 1, 2, and 3, in conjunction with a dog-lever pivoted to such standard provided with means at one end for engaging the teeth of the cogged or sprocket wheel and having a foot-plate at the lower end, as and for the purpose described. (5.) Improvements in sliding the seat or seats of dog-carts, gigs, and other like wheeled vehicles, substantially as described in the specification and illustrated in the drawings.

(Specification, 2s. 3d. ; drawing, 2s.)

No. 22394.—4th February, 1907.—FREDRIK WILHELM HELLBERG, of Royal Exchange, Sydney, New South Wales, Australia. A combined hammock and tent.*

Extract from Specification.—This invention is adapted to be used by explorers, surveyors, pleasure-seekers, or any one who desires to camp out in the open air. The invention consists of a sheet of sail-cloth of a suitable size, the two ends of such sheet being sewn on to light stretcher-rods (preferably of bamboo cane), and by the extremities of the stretcher-rods it is suspended to trees, posts, or ring-bolts in walls, and steadied by guy-ropes made fast to any suitable fixed point on or near the ground. The above constitutes the hammock. Above the hammock, suspended by a rope which is stretched between the points that carry the hammock, is the tent, which is of a size just adapted to cover the hammock. The rope from which the tent is suspended will form the ridge of the roof.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 5s. 6d. ; drawing, 1s.)

No. 22435.—15th February, 1907.—JOHN STEWART, care of DAVID STEWART, Gore, New Zealand, Farmer. Improvements in draught attachments for reapers-and-binders or the like.

Claims.—(1.) Draught attachments for a reaper-and-binder comprising means for harnessing to it four horses, one on one side of the pole and three on the other side of the pole, and means for equalising the draught, substantially as described. (2.) Draught attachments for reapers-and-binders or the like comprising, in combination, a "lever" tree pivotally secured near one end to the pole, a "master" tree similarly secured to the pole behind the "lever" tree, a chain diagonally connecting the short end of the "lever" tree with the long end of the "master" tree, another chain connecting the long end of the "lever" tree with the short end of the "master" tree, and swingle-trees secured to said "lever" tree, substantially as and for the purposes set forth. (3.) The general construction, arrangement, and combination of parts composing my improvements in draught attachments for reapers-and-binders or the like, substantially as and for the purposes set forth.

(Specification, 4s. 6d. ; drawing, 1s.)

No. 22446.—20th February, 1907.—ALFRED WILLIAM CARPENTER, of 28 Bedford Street, Strand, London, England, Banker. Improvements in elastic tires for vehicle-wheels.

Claims.—(1.) An elastic tire for vehicle-wheels comprising an elastic cord or cords coiled, preferably in tension, around the outside of a central core formed of a steel or other metal tube or the equivalent, the whole being enclosed in a suitable cover, substantially as described. (2.) In an elastic tire of the kind described in claim 1, the insertion of a layer of canvas or the like between the coiled elastic cords and the metal tube or the equivalent forming the core, to prevent creeping between the said elastic cords and core, substantially as described. (3.) The improved elastic tire for vehicle-wheels described, and illustrated in the drawing.

(Specification, 2s. ; drawing, 1s.)

No. 22457.—19th February, 1907.—HAROLD JAMES AUGUSTUS PYKE, of Auckland, New Zealand, Gum-broker. An improved method of purifying and solidifying kauri-gum.

Claims.—(1.) In the improved method of purifying and solidifying kauri-gum specified, the heating, liquefying, and solidifying the gum in the manner and for the purpose set forth, as described and illustrated. (2.) In combination, the oven surrounded except at the door by the steam-jacket, the flues around the steam-jacket supplied with heat by a furnace beneath said oven, the tilting-bars swung to hooks or eyes within said oven for supporting trays having their ends bent to engage ratchet teeth formed on vertical rods, strainers, and receiving-pans fixed to beneath said trays fitted within said oven, escape-holes made in doors of said oven, safety-valve connected to said steam-jacket, and uptake connected to said flues, for the purpose set forth, as described and illustrated. (3.) In the combination covered by claim 2, the tilting-bars swung to hooks or eyes within oven, having their ends bent to engage ratchet teeth formed on vertical rods, the trays supported by said tilting-bars, the strainers and receiving-pans fixed to beneath said trays, for the purpose set forth, as described and illustrated.

(Specification, 3s. 9d. ; drawing, 1s.)

No. 22475.—28th February, 1907.—WILLIAM HENRY MENCE, of Latrobe, Tasmania, Australia, Builder, and WILLIAM ROBERT STEWART, of Latrobe aforesaid, Medical Practitioner (M.R.C.S. Eng.). Improvements in corrugated-iron ridge-capping and the like.

Claims.—(1.) Ridging or the like constructed in longitudinally adjustable parts, connected by a longitudinal apex seam, and having flaps provided with trough-scallops,

(2.) Longitudinal roof-ridging or the like in two connected parts, one of which is slidable along the other, each part having a flap with trough-scallops, substantially as described. (3.) A ridging side-member having means to close the troughs of corrugated material, and having means also for longitudinal connection and adjustment relatively to a ridging member to be located on an opposite side.

(Specification, 2s. 9d. ; drawing, 1s.)

No. 22476.—28th February, 1907.—GEORGE EDWARD BUNNING, of Dalveen, Queensland, Australia, Pastoralist (assignee of Charles Cromwell, of Longreach, Queensland, Australia, Watchmaker). Improvements in and relating to fence-droppers and wire-retaining means.

Claims.—(1.) A bar slotted to lock upon a series of wires, and having at one or both ends the series of slots described—namely, *a, d, g*, with parts as *a², d², g²*, and (or) *c, f, i*, with parts as *c², f², i²*, substantially as set forth. (2.) A bar slotted to lock upon a series of wires, having the series of slots *b, e, h*, or the like, arranged relatively to one another, substantially as described. (3.) A bar slotted to lock upon a series of wires, and bent or folded into three members, the slotting of the middle member reaching a fold and the top and bottom edges, and relatively to the slotting of the outer members being such as to lock each wire out of straight alignment. (4.) A dropper slotted to lock upon a series of wires, and bent into three planes, and having one fold un-slotted, one fold slotted, and slots having entrances in the top, bottom, and two longitudinal outer edges. (5.) In a bar slotted to lock upon a series of wires and bent into two parallel outer and one inner member, a slot having its entrance at a bend and extending to different heights in one outer and in the inner member respectively. (6.) A bar to lock upon a series of wires, having the described means to hold a series of wires out of a straight line both laterally and horizontally. (7.) In the outer member of a bent bar slotted to lock upon a series of wires, the upper and lower end slots *a, c*, having parts as *a², c²*, in combination with any suitable intermediate slotting. (8.) In the outer member of a slotted bent bar to lock upon a series of wires, the combination of the slots *a, b*, and *c*, substantially as described and illustrated. (9.) In an outer member of a bar slotted to lock upon a series of wires and bent into three members, the end slots *g, i*, and intermediate slots *h*, substantially as illustrated. (10.) A dropper having two parallel outer members, and a middle member slotted to receive intermediate wires, and having the top and bottom slots *d, f*. (11.) A bar slotted to, while held vertically, engage loosely a series of horizontal wires, and adapted to be twisted at the top and bottom in turn, while the top and bottom wires are being further inserted and locked in, the twisting locking the series of wires. (12.) A slotted bent dropper having means to lock (under torsional strain) a series of wires out of lateral and horizontal alignment, substantially as described. (13.) As a whole, the bent dropper having the slots *a* to *i*, substantially as illustrated.

(Specification, 9s. ; drawing, 1s.)

No. 22479. — 18th December, 1906. — The Honourable ARTHUR JEX DAVEY, of 68 Victoria Street, Westminster, London, England, Gentleman. Improvements in or relating to military equipments and the like.

[This is an application under section 106 of the Act, the date given being the official date of the application in Great Britain.]

Claims.—(1.) In a military equipment, the combination with a belt of cartridge-carriers such as D detachably connected to the belt and sling members such as B, C, to which the knapsack can be attached, these sling-members being cross-connected to the haversack and water-bottle, and serving also as braces for the belt, in the manner set forth. (2.) In a military equipment, the combination with a belt, cartridge-carriers detachably connected thereto, a haversack and a water-bottle, of sling-members such as B, C, to which these articles are attached in the manner described so that the equipment can adjust itself about the body of the wearer, as set forth. (3.) In a military equipment, the combination with a belt of cartridge-carriers such as D and sling-members such as B, C, all detachably connected in the manner described,

and capable of use in various ways, and with or without a water-bottle, haversack, and knapsack, or other articles, as set forth. (4.) The combination and arrangement of parts constituting the complete military equipment, substantially as described, and illustrated in Figs. 1 and 2 of the drawings.

(Specification, 9s. ; drawing, 2s.)

No. 22481. — 28th February, 1907. — WALTER EDWARD ADAMS, of Cremorne Point, North Sydney, New South Wales, Australia, Civil Engineer. Improvements in the construction of walls.

Claims.—In walls constructed by the use of reinforced concrete frames, the employment, in combination with a rearward extension of the base member of the frame or group of frames, of a platform adapted to receive an increased amount of vertical loading, substantially as described and illustrated. (2.) In walls constructed by the use of reinforced concrete frames, the employment of a base platform under the more heavily loaded edge of the base member of the frame or group of frames, adapted to distribute the vertical loading over an increased area of the underlying foundation, substantially as described and illustrated. (3.) In walls constructed by the use of reinforced concrete frames, the employment, in combination with a rearward extension of the base member of the frame or group of frames, of a platform adapted to receive an increased amount of vertical loading, and also of a base platform under the more heavily loaded edge of the base member of the frame or group of frames, adapted to distribute the vertical loading over an increased area of the underlying foundation, substantially as described and illustrated.

(Specification, 4s. 6d. ; drawing, 1s.)

No. 22483. — 28th February, 1907. — WILLIAM JOHN MCLENNAN, Gentleman, and FREDERICK FOSTER CRADDOCK, Photographer, both of Pinner, Middlesex, England. A machine for brushing the human spine and back and other purposes.

Claims.—(1.) A brush the periphery of which is shaped to fit the human back, means for adjustably supporting the said brush at a desired height, and means for imparting a rapid rotary motion to the said brush, substantially as and for the purpose set forth. (2.) A rotary brush, a bracket-piece adjustably supporting the said brush, and means for imparting a rapid motion to the brush, substantially as shown and described. (3.) A supporting-block, an adjusting-piece adjustably secured to the said block, a bracket-piece carried by the said adjusting-piece and supporting a brush and its operating-shaft, and means for transmitting motion to the said brush, substantially as and for the purposes set forth. (4.) A supporting-block, an adjusting-piece mounted upon the said block, a brush and its operating-shaft carried by the said adjusting-piece, means for adjustably securing the said adjusting-piece at different heights upon the supporting-block, and means for rotating the said brush, substantially as shown and described. (5.) A rotary brush the periphery of which is shaped to fit the human spine and back, means for supporting the said brush at different heights, and means for transmitting motion to the brush, substantially as and for the purposes set forth. (6.) A rotary brush, means for supporting the said brush at different heights, and for transmitting motion thereto, and means for holding the brush rigidly in position while working, substantially as shown and described. (7.) A rotary brush, means for supporting the said brush in a working position and for transmitting motion thereto, and means for closing the said brush up out of the way when not in work, substantially as described. (8.) A rotary brush, an adjustable supporting-block and a bracket for supporting the brush and its operating-shaft in its working positions, a driving-wheel and belt for transmitting motion to the said operating-shaft and brush, and means for turning the bracket, operating-shaft, and brush out of the way when not in use, substantially as shown and described. (9.) In a rotary-brush mechanism as described, a bracket-piece carrying the brush and its operating-shaft, in combination with means for rigidly holding the brush and bracket-piece in both its working position and also in its closed position, substantially as shown and described. (10.) A brush for brushing the human spine and back, constructed and adapted to operate substantially as shown and described.

(Specification, 7s. ; drawing, 1s.)

No. 22496.—1st March, 1907.—ALBERT PETER FERGUSSON WATSON, Engineer, and GEORGE DAVID WATSON, Engineer, both of Christchurch, New Zealand. An improved fence-standard.

Claim.—A fence-standard constituted by a strip of metal helically twisted throughout its whole length, substantially as and for the purpose specified.

(Specification, 2s. 3d.; drawing, 1s.)

No. 22521.—20th August, 1906.—LILY MOTE, of Ponsonby, Auckland, New Zealand, Nurse, HORACE and LOUIS MOTE both of Balmain, Sydney, New South Wales, Australia, Engineers. Improvements in extension-ladders.

Claims.—(1.) Improvements in means for elevating sections of extension-ladders, consisting of a bracket secured to the upper part of one section, a sheave attached to the said bracket, a cord reeved through the sheave passing around the bottom rung of the other section and having its ends secured to an eyebolt fixed to the bottom rung of the other section, substantially as set forth. (2.) For the purpose indicated, means for locking together sections of an extension-ladder, consisting of a clutch having bifurcated sides united by a cross-bar and pivoted to one section of the ladder, the bifurcations of the sides being adapted to engage the rungs of the other section, substantially as set forth. (3.) For the purpose indicated, means for reinforcing the sides of an extension-ladder, consisting of plates secured to the sides by nails, screws, or spikes passing through the plates, the side of the ladder, and the rungs, the said plates having their ends passed around the ends of the ladder and secured by a screw, substantially as set forth. (4.) For the purpose indicated, means for strengthening the sides of an extension-ladder, consisting of a strained wire let into a groove, substantially as set forth. (5.) The combination and arrangement of parts comprising the improvements in extension-ladders, substantially as and for the purposes specified, and as illustrated in the drawing.

(Specification, 4s.; drawing, 1s.)

An asterisk (*) denotes the complete specification of an invention for which a provisional specification has been already lodged.

NOTE.—The cost of copying the specification and drawing has been inserted after the notice of each application. An order for a copy or copies should be accompanied by a post-office order or postal note for the cost of copying.

The date of acceptance of each application is given after the number.

Extracts from the drawings accompanying the foregoing complete specifications appear at the end of this *Gazette*.

J. C. LEWIS,
Registrar.

Provisional Specifications accepted.

Patent Office,
Wellington, 3rd April, 1907.

A PPLICATIONS for Letters Patent, with provisional specifications, have been accepted as under:—

- No. 22238.—H. G. Kettle, water-heater.
- No. 22387.—J. H. Smith, non-refillable bottle.
- No. 22408.—G. F. Hutchinson, pump.
- No. 22413.—J. Lilley, device for twisting wire in fencing.
- No. 22415.—H. Rochfort, process for extracting metals.
- No. 22417.—W. T. J. Auckram, sewing-machine.
- No. 22421.—M. D. Wreathall, ice-making machine.
- No. 22422.—W. F. Dugins and H. Haggarty, jun., device for delivering food to horses.
- No. 22423.—J. Montgomery, cooling-chamber.
- No. 22425.—G. S. Evans, link-lock hook.
- No. 22426.—G. S. Evans, safety-clip hook appliance.
- No. 22430.—F. Raper and W. J. P. Dixon, wire-strainer.
- No. 22431.—S. Kendall, gas-burner.
- No. 22436.—G. Hutchinson, seed-sower.
- No. 22438.—A. H. Byron and R. R. Richmond, sewing-machine.

B

- No. 22443.—E. Sprey, loose sock for tender feet.
- No. 22451.—T. Rolley, means for operating casement-windows, &c.
- No. 22454.—J. R. Henderson and W. G. Thomas, lifting-jack.
- No. 22458.—G. M. Nichol, wedge for securing axe-handles.
- No. 22459.—T. Lane, means for securing rubber heels to boots, &c.
- No. 22461.—J. E. Holland, mowing-machine.
- No. 22462.—E. E. Woodley and C. J. Brogden, block of straw-baling press.
- No. 22463.—T. J. Gilfedder, speed-indicator.
- No. 22464.—W. McCallum, means for placing windmills in and out of gear.
- No. 22466.—A. Beaton, judging-machine for foot runners.
- No. 22467.—T. Warner and J. Kannuluik, means for drawing off fumes, &c., from urinals.
- No. 22468.—H. R. Smith, apparatus for cutting toes of leather boot-soles.
- No. 22470.—Checkogram Limited, registering-device for turnstiles. (S. C. Lee and N. A. Morkill.)
- No. 22472.—A. W. Stone, skin-measuring machine.
- No. 22473.—A. Gillies, teat-cup.
- No. 22488.—United Shoe Machinery Company, machine for inserting fasteners. (A. Bates and T. Briggs.)
- No. 22489.—United Shoe Machinery Company, machine for reinforcing insoles. (A. Eppler.)
- No. 22490.—United Shoe Machinery Company, machine for producing insoles. (A. E. Johnson.)
- No. 22491.—United Shoe Machinery Company, work-feeding and work-guiding mechanism. (A. A. Wadsworth and F. Shortland.)
- No. 22494.—H. Daniels, potato planter and hiller.
- No. 22495.—A. K. W. Rissel, means of ascertaining dampness in wool.
- No. 22497.—J. R. Patterson, gas-generator.
- No. 22498.—R. E. Reed, automatic music-turner.
- No. 22510.—E. Moss, apparatus for stamping and franking letters.
- No. 22512.—E. Westwood, motor-car wheel and tire.
- No. 22513.—W. A. Caldecott, separation of liquids from crushed-ore products.
- No. 22531.—C. J. Johnson, means for drawing down trolley-poles when such leave the wire.

NOTE.—Provisional specifications cannot be inspected, or their contents made known by this office in any way, until the complete specifications in connection therewith have been accepted.

Letters Patent sealed.

LIST of Letters Patent sealed from the 21st March to the 3rd April, 1907, inclusive:—

- No. 19463.—A. E. Coker, means of removing wool from sheep and lamb skins. (W. G. Coker.)
- No. 20034.—T. H. Perrott, lubricator.
- No. 20188.—W. B. Jones, fencing-standard.
- No. 20206.—G. T. Pritchard, railway signalling-apparatus.
- No. 20427.—J. Strathern, mixture for making potatoes, &c., proof against blight, &c.
- No. 20470.—H. Cleary, cream holder and cooler.
- No. 20476.—J. H. A. McPhee, pocket tobacco cutter and box.
- No. 20616.—T. Driffield, chimney-top.
- No. 20692.—J. Robertson and W. C. Wheeler, automatic skim-milk-delivery box and pump.
- No. 20735.—I. Stevenson and J. Cook, stone-shoot for dredges.
- No. 20850.—H. M. Crimp, egg-beater.
- No. 20853.—A. E. Thomas, rock-drill. (J. Arthur.)
- No. 21753.—R. O. Clark, inspection-inlet to pipes, &c.
- No. 21939.—R. O. Clark, draught-inducing and air-heating accessory to fire-grate.
- No. 22035.—T. B. Lockley, vice.
- No. 22055.—J. I. Moss, window-fastener.
- No. 22069.—P. Morice, apparatus for utilising force of sea-waves.
- No. 22128.—H. R. Lees, potato-digger, &c.
- No. 22152.—W. M. and W. H. Maybury, grading and screening apparatus.
- No. 22153.—O. Riegelhuth, electrical signalling-device.
- No. 22185.—L. Decker, whiffletree-attachment.
- No. 22219.—A. C. Webber, tool for removing, &c., tire-cover.
- No. 22220.—F. E. Penfold, hand-sweeper for street-cleaning,

Letters Patent on which Fees have been paid.

[NOTE.—The dates are those of the payments.]

SECOND-TERM FEES.

- No. 16139.—P. Magnus, pneumatic tire. 26th March, 1907.
 No. 16146.—W. D. Wilson, singletree-iron. 25th March, 1907.
 No. 16153.—J. E. Watkins, grain-dressing apparatus of threshing-machine. 26th March, 1907.
 No. 16193.—H. Bland, elastic-fluid compressor. 2nd April, 1907.
 No. 16233.—The British Westinghouse Electric and Manufacturing Company, Limited, alternating-current electrical apparatus. (J. P. Campbell—C. F. Scott.) 20th March, 1907.
 No. 16335.—Hon. C. A. Parsons, steam turbine. 21st March, 1907.
 No. 16348.—A. Gillies, milking-apparatus. 28th March, 1907.

THIRD-TERM FEES.

- No. 12486.—W. L. Luxford, A. H. Wylds, and J. H. Hankins, traversing-hoist for lifting weights. 26th March, 1907.
 No. 12495.—The Hon. C. A. Parsons, steam-turbine rings of blades. (The Hon. C. A. Parsons, G. G. Stoney, and H. F. Fullagar.) 21st March, 1907.
 No. 12557.—The British Westinghouse Electric and Manufacturing Company, Limited, electric-motor controller. (T. S. Perkins.) 20th March, 1907.

Subsequent Proprietors of Letters Patent registered.

[NOTE.—The name of the patentee is given in brackets; the date is that of registration.]

- No. 18548.—Edward Charles Evelyn Mills, of Wellington, in the Colony of New Zealand, Merchant; Peter Heyes, of the same place, Commissioner of Taxes; and William Joseph Napier, of the City of Auckland, in the said colony, Barrister; registered as proprietors of one-half interest. Vending-machine. [R. J. Dickie and J. H. Brown.] 19th March, 1907.

Applications for Letters Patent abandoned.

LIST of applications, with which provisional specifications only have been filed, abandoned (*i.e.*, complete specifications not lodged) from the 21st March to the 3rd April, 1907, inclusive:—

- No. 21147.—F. Gough, cow-leg holder.
 No. 21177.—W. E. Hughes, means of removing paint from wood. (H. C. Scrutton.)
 No. 21178.—A. J. Edwards, controlling trolley-poles.
 No. 21179.—J. Long, ticket-holder.
 No. 21186.—A. Jack, hydrocarbon-gas generator.
 No. 21188.—J. J. Strain, boiler of gas-heated stove.
 No. 21191.—R. Mapp, jun., cow-bail.
 No. 21193.—B. E. Smith, water-tank.
 No. 21196.—R. T. Cross, fishing-reel.
 No. 21199.—A. Prior, nail-driver.
 No. 21200.—H. E. Rountree and C. Glasgow, music-turner.
 No. 21201.—O. Stewart, telegraph-transmitter.
 No. 21202.—J. D. Plimmer, vice.
 No. 21204.—F. M. Norris and J. Robertson, non-refillable bottle.
 No. 21210.—E. S. Evelyn, non-refillable bottle.
 No. 21212.—G. Robinson, hat-pin.
 No. 21215.—F. D. Miller, boot-sole.
 No. 21219.—H. Rochfort, suction-hose.
 No. 21225.—R. V. Danne, valve and pump connecting-piece.
 No. 21228.—R. J. Roach, catch for brooches.
 No. 21234.—R. R. Douglas, umbrella.
 No. 21236.—J. W. Greene, vehicle wheel-axle.
 No. 21237.—N. I. Gooder, trolley-head.
 No. 21239.—J. D. McLaurin, means of attaching tags and brands to bales of hemp.
 No. 21241.—H. E. McDonald, cooking-utensil.
 No. 21242.—H. E. McDonald, tag and band for marking bales of hemp.
 No. 21244.—C. Parsons, fencing-standard.
 No. 21247.—A. Gardiner, revolver.
 No. 21249.—G. Westmoreland, J. F. Pettie, and E. H. Hewetson, means of balancing and locking window-sashes.
 No. 21250.—F. H. Trevellian, levelling-instrument.
 No. 21254.—H. Rochfort, process for recovering "values" from slimed ore.
 No. 21255.—W. M. Crockett, hair-pin.
 No. 21257.—W. D. West, beehive-frame.
 No. 21258.—G. H. Evans, reaper-and-binder.

Applications for Letters Patent void.

APPLICATIONS for Letters Patent, with which complete specifications have been lodged, void owing to non-acceptance of such complete specifications, from the 21st March to the 3rd April, 1907, inclusive:—

- No. 20480.—O. Andrews, vulcanising tires, &c.
 No. 20495.—S. Banks and E. J. W. Jones, cool safe.
 No. 20519.—E. Aston and W. H. Thompson, means for preventing horses from kicking.
 No. 20520.—C. Grueneberg, brush drilling and tufting machine.
 No. 20521.—C. Grueneberg, manufacture of brushes.

Applications for Letters Patent lapsed.

LIST of applications for Letters Patent lapsed, owing to Letters Patent not being sealed, from the 21st March to the 3rd April, 1907, inclusive:—

- No. 19931.—J. Henry and A. G. Gabites, pocket flask and heater.
 No. 20065.—W. P. MacIntosh, tobacco-lighter.
 No. 20088.—R. Bayley, boot-sole attachment.
 No. 20093.—A. H. Baskville, braces.
 No. 20101.—T. H. Palmer, boat-keel.
 No. 20118.—J. Ellen, feeding-bottle protector.

Letters Patent void.

LIST of Letters Patent void through non-payment of renewal fees, and through expiry of term of fourteen years, from the 21st March to the 3rd April, 1907, inclusive:—

THROUGH NON-PAYMENT OF SECOND-TERM FEES

- No. 15809.—J. Ewing, jun., marine life-preserver.
 No. 15811.—J. Ellis, horse-cover fastener.
 No. 15817.—D. McKenzie, finger-guide for penholder.
 No. 15819.—G. H. Dunlop, construction of walls for tunnels, &c.
 No. 15820.—M. Corrington, safety-valve.
 No. 15821.—J. Moss, window sash and frame.
 No. 15822.—J. P. Campbell, dynamo electrical machinery.
 No. 15823.—H. G. MacWilliam, braces and trouser-suspender.
 No. 15824.—T. Sutcliffe, aerating and bottling machine.

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

- No. 12266.—A. R. Pullen, rail butt joints and fishplate fastenings.
 No. 12269.—A. Smith, wool-washing machine.
 No. 12274.—J. Anderson, cream-temperature controller.

THROUGH EXPIRY OF TERM.

- No. 6101.—A. Riedler, compressing and pumping apparatus.
 No. 6118.—W. S. Lockhart, washing and separating gems from mineral water.

Design registered.

A DESIGN has been registered in the following name on the date mentioned:—

- No. 318.—Noone and Trevarthen, of Auckland, in the Colony of New Zealand, Wood-turners. Class 3. 26th March, 1907.

Designs expired.

THE copyright in the following designs has expired:—

- No. 147.—J. Ballantyne and Co., of Christchurch, New Zealand. (Dress-chart.)
 No. 148.—Louis Schatz and Co., of Wellington, New Zealand. (Knife-rest.)
 No. 149.—F. L. Ryan, of Christchurch, New Zealand. (Net-holder for table-tennis.)
 No. 150.—S. Barry, of Palmerston North, New Zealand. (Card for testing eyesight.)
 No. 151.—W. J. Jupp, of Wellington, New Zealand. (Ping-pong bat.)
 No. 152.—A. Devlin, of Dunedin, New Zealand. (Brooch.)
 No. 153.—A. Devlin, of Dunedin, New Zealand. (Jewellery-pin.)
 No. 155.—J. P. Carolin, of Melbourne, Victoria. (Stamp for bills.)

Applications for Registration of Trade Marks.

Patent Office,
Wellington, 3rd April, 1907.

APPLICATIONS for registration of the following Trade Marks have been received. Notice of opposition to the registration of any of these applications may be lodged at this office within two months of the date of this *Gazette*. Such notices must be in duplicate, and accompanied by a fee of £1.

No. of application : 6349.
Date : 22nd November, 1906.

TRADE MARK.



NAME.

CHRISTIAN NIELSEN JENSEN and CHARLES CECIL RWADE, of Dannevirke, in the Colony of New Zealand, Settlers.

No. of class : 50.
Description of goods : Sleepers and posts manufactured from wood.

No. of application : 6368.
Date : 5th December, 1906.

TRADE MARK.



The essential particular of this trade mark is the device ; and any right to the exclusive use of the added matter is disclaimed.

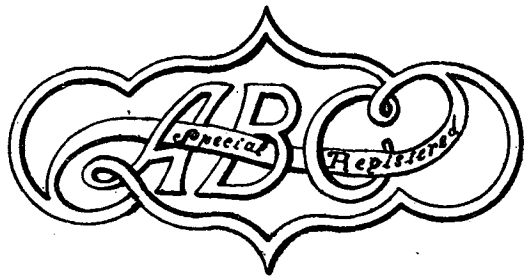
NAME.

BUCHANAN-FOSTER COMPANY, of 744 Drexel Building, Philadelphia, Pennsylvania, United States of America, Manufacturers.

No. of class : 50.
Description of goods : Roofing-materials.

No. of application : 6495.
Date : 19th February, 1907.

TRADE MARK.



The essential particular of this trade mark is the distinctive device consisting of the letters "ABC" written in the peculiar manner with the scroll-ribbon passing through the letters ; and any right to the exclusive use of the words "Special" and "Registered" is disclaimed.

NAME.

ASHBY, BERGH, AND Co., of Christchurch, in the Provincial District of Canterbury, in the Colony of New Zealand, Wholesale and Retail Merchants.

No. of class : 12.
Description of goods : All articles included in this class.

NOTE.—Class 12 is for "Cutlery and edge tools, such as knives, forks, scissors, shears, files, saws."

No. of application : 6525.
Date : 6th March, 1907.

TRADE MARK.



NAME.

The person or persons trading under the firm-name or style of E. MERCK, of Frankfurterstrasse 250, Darmstadt, Germany, Chemical-manufacturer.

No. of class : 3.
Description of goods : Chemical substances prepared for use in medicine and pharmacy.

No. of application : 6538.
Date : 16th March, 1907.

TRADE MARK.

The words
"LUCKY BEAN."

NAME.

HARDWICK AND FRIEDMAN, of Christchurch, in the Colony of New Zealand, Importers.

No. of class : 14.
Description of goods : Jewellery.

No. of application : 6539.
Date : 19th March, 1907.

The word

TRADE MARK.

“DURBAR.”

NAME.

A. S. PATERSON AND Co., of Wellington, in the Colony of New Zealand, Merchants.

No. of class : 42.
Description of goods : Tea.

No. of application : 6542.
Date : 22nd March, 1907.

The word

TRADE MARK.

“RHEUMAGNETIC.”

NAME.

RUSSELL ALLPORT and THOMAS NORMOYLE, trading as “R. Allport and Co.” of Hobart, in the State of Tasmania, Commonwealth of Australia, Electrical Engineers.

No. of class : 14.
Description of goods : Finger-rings, bracelets, and such-like articles.

No. of application : 6543.
Date : 23rd March, 1907.

The word

TRADE MARK.

“GAMEKEEPER.”

NAME.

J. LYONS AND Co., LIMITED, of London, England.

No. of class : 43.
Description of goods : All goods included in this class.

NOTE.—Class 43 is for “Fermented liquors and spirits, such as beer, cider, wine, whisky, liqueurs.”

No. of application : 6544.
Date : 25th March, 1907.

The word

TRADE MARK.

RARUS

NAME.

VACUUM OIL COMPANY, a corporation organized under the laws of the State of New York, United States of America,

and having its principal office at Rochester, in the said State, Oil Manufacturers and Vendors.

No. of class : 47.
Description of goods : Lubricating-oils.

No. of application : 6545.
Date : 25th March, 1907.

The word

TRADE MARK.

VACUOLINE

NAME.

VACUUM OIL COMPANY, a corporation organized under the laws of the State of New York, United States of America, and having its principal office at Rochester, in the said State, Oil Manufacturers and Vendors.

No. of class : 47.
Description of goods : Lubricating, heating, illuminating, solidified, and all other oils in this class.

No. of application : 6546.
Date : 25th March, 1907.

The word

TRADE MARK.

VELOCITÉ

NAME.

VACUUM OIL COMPANY, a corporation organized under the laws of the State of New York, United States of America, and having its principal office at Rochester, in the said State, Oil Manufacturers and Vendors.

No. of class : 47.
Description of goods : Lubricating, heating, illuminating, solidified, and all other oils in this class.

No. of application : 6548.
Date : 26th March, 1907.

The word

TRADE MARK.

“CAC.”

NAME.

THE COLONIAL AMMUNITION COMPANY, LIMITED, of Mount Eden, in the City of Auckland, in the Colony of New Zealand, Manufacturers.

No. of class : 19.
Description of goods : All goods in this class.

NOTE.—Class 19 is for “Arms, ammunition, and stores not included in Class 20, such as cannon, small-arms, fowling-pieces, swords, shot and other projectiles, camp-equipage, equipments.”

No. of application: 6549.
Date: 27th March, 1907.

TRADE MARK.

The word

"CARNOSINE."

NAME.

THE AGRICULTURAL AND PASTORAL FOOD COMPANY, LIMITED,
of Davis Street, Wellington, in the Colony of New Zealand,
Live-stock Food Manufacturers.

No. of class: 42.
Description of goods: Live-stock foods.

J. C. LEWIS,
Registrar.

Trade Marks registered.

LIST of Trade Marks registered from the 21st March to the 3rd April, 1907, inclusive:—

- No. 5014/6388.—Smith's Patent Triumph Golosh Syndicate. Class 38. (*Gazette* No. 3, of the 10th January, 1907.)
No. 5015/6398.—Holzapfel's Compositions Company, Limited. Class 1. (*Gazette* No. 3, of the 10th January, 1907.)
No. 5016/6399.—The Agricultural and Pastoral Food Company, Limited. Class 42. (*Gazette* No. 3, of the 10th January, 1907.)
No. 5017/6317.—Skelton, Frostick, and Co., Limited. Class 38. (*Gazette* No. 3, of the 10th January, 1907.)
No. 5018/6432.—J. E. Watson and Co., Limited. Class 42. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5019/6406.—J. J. Cronin. Class 42. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5020/6407.—J. J. Cronin. Class 42. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5021/6421.—Collins Bros. and Co., Limited. Class 39. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5022/5794.—W. F. Darby. Class 42. (*Gazette* No. 19, of the 8th March, 1906.)

Trade Mark Renewal Fee paid.

FREE paid for the renewal of the under-mentioned Trade Mark for fourteen years from the date first mentioned:—

No. 903/697.—9th September, 1907.—C. and J. Clark, Limited, of Street, County of Somerset, England. 28th March, 1907.

Trade Marks removed from the Register.

TRADE Marks removed from the Register owing to the non-payment of the renewal fees from the 21st March to the 3rd April, 1907, inclusive:—

No. 671/590.—21st December, 1892.—Woods and Co., of Kangaroo Island, South Australia. Class 3.
No. 673/542.—21st December, 1892.—D. J. Heenan, of Maungatua, New Zealand, and J. A. Dallas, of Dunedin, New Zealand. Class 42.

Alteration of Address of Proprietor of Trade Mark on Register.

NO. 5163/4058.—The Dazzleine Company, Limited, of 15 Park Place, Greenwich, London, England. Address altered to "1 Southampton Row, London, W.C., England."

Advertisements.

ADVERTISEMENTS are charged at the rate of 6d. per line for the first insertion, and 3d. per line for the second and any subsequent insertion.

All advertisements should be written on one side of the paper, and signatures, &c., should be written in a legible hand.

The number of insertions required must be written across the face of the advertisement.

Communications should be addressed to the Government Printer, Wellington, to whom post-office money-orders should be made payable. Cheques should be crossed "Public a/c," and exchange added.

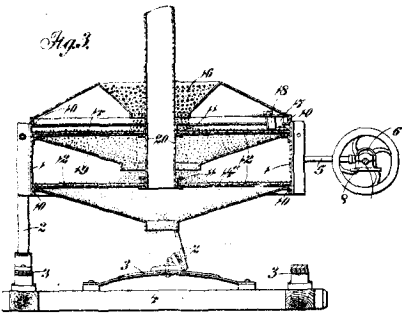
Postage or duty stamps cannot be received in payment from any place at which postal notes or post-office orders are issued.

Prepayment may be demanded in any case. In order to prevent delay in publication a sufficient remittance should accompany every advertisement. Any surplus will be returned with receipted account.

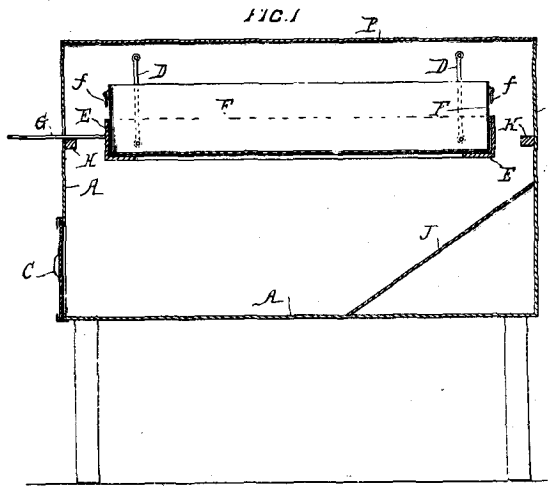
By Authority: JOHN MACKAY, Government Printer, Wellington.

ILLUSTRATIONS OF INVENTIONS.

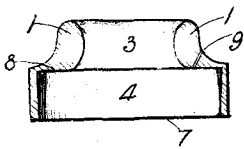
[These illustrations refer to the complete specifications accepted and advertised in this Gazette.]



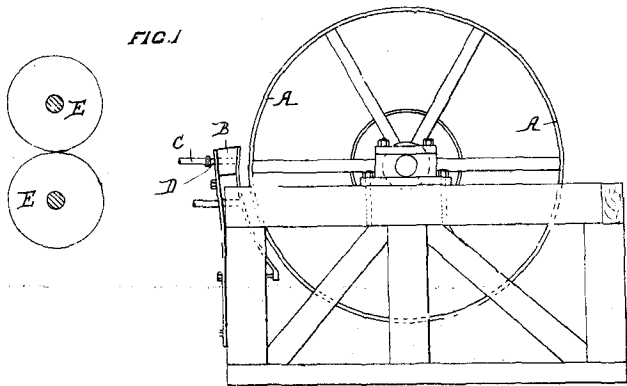
20846
Ullrich. Ore-classifier.



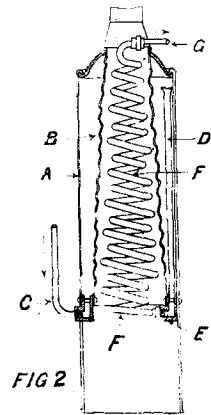
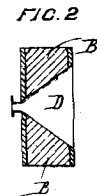
20873
Waddington. Cinder-sifter.



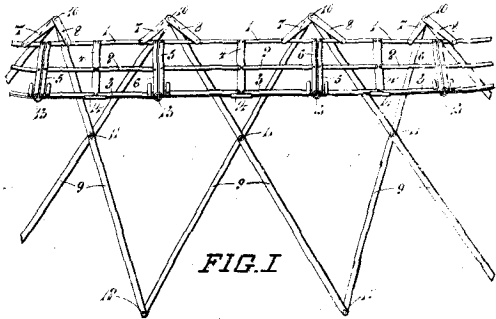
21809
Small. Teat-cup.



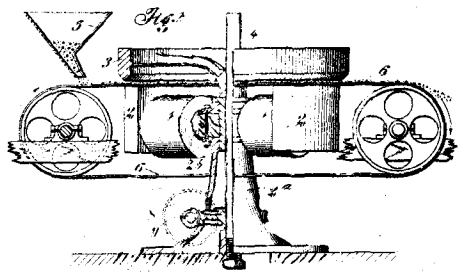
20874
Hartwell. Flx-dresser.



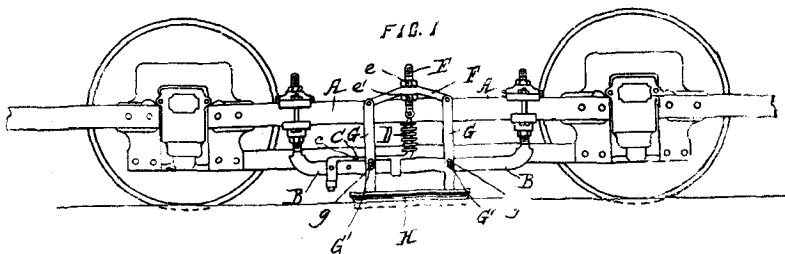
20891
Martia and Thomson. Water-heater.



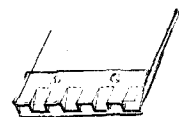
21004
Sargison, Deberham, and Cambridge. Music-stand.



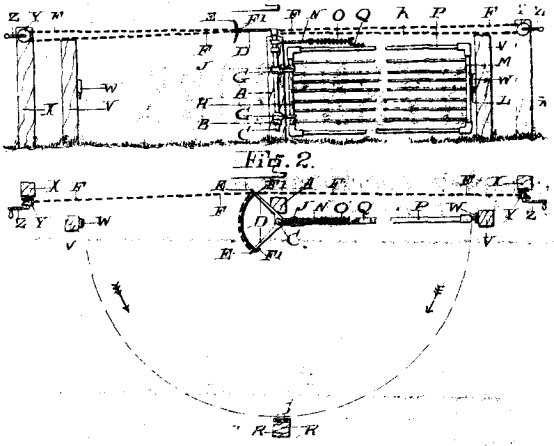
20847
Ullrich. Magnetic Separator.



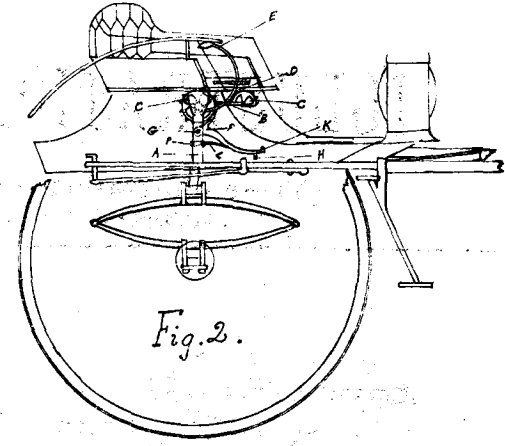
21142
Taylor. Rail-cleaner.



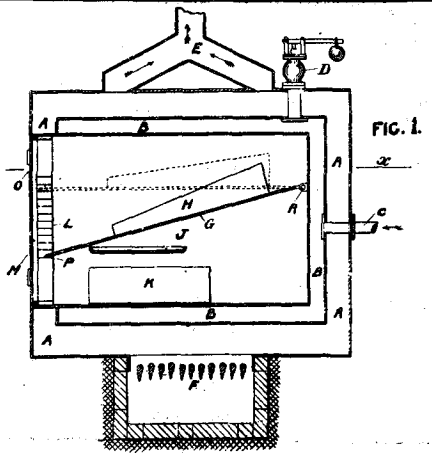
20895
Reynolds. Saw-set.



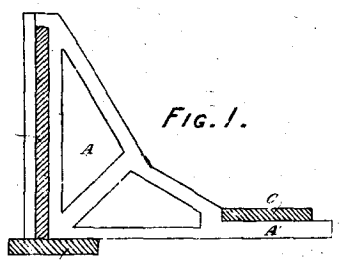
22161
Pettit. Gate.



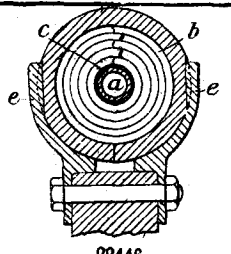
22370
Martin. Vehicle-seat.



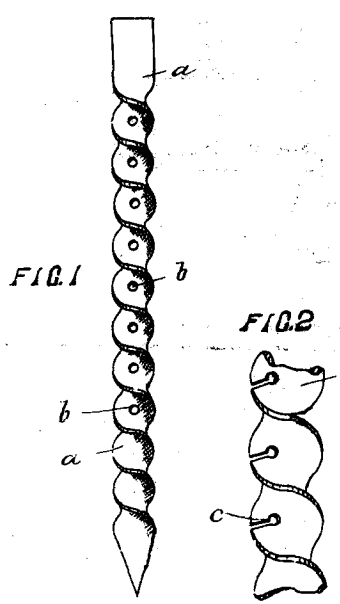
22457
Pyae. Purifying and Solidifying Kauri-gum.



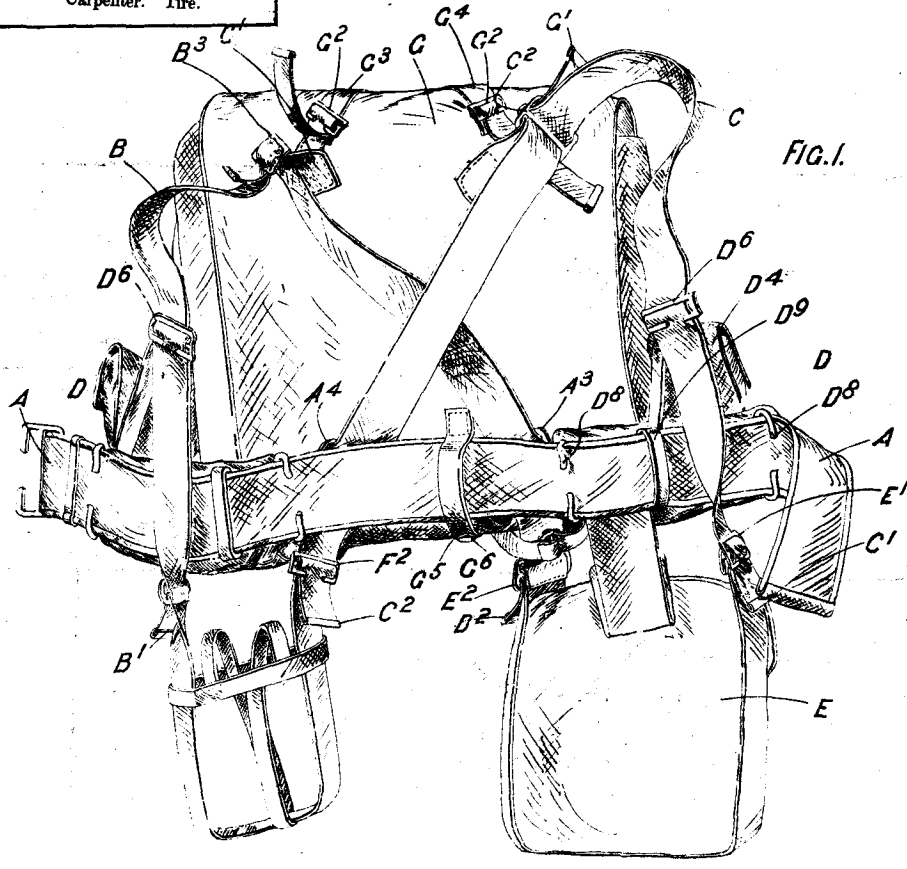
22481
Adams. Wall.



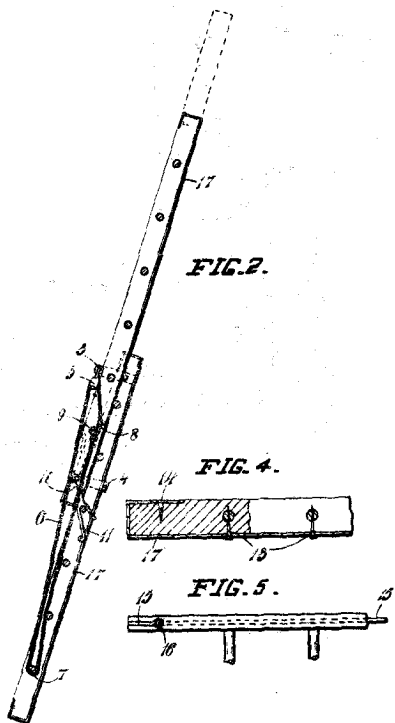
22446
Carpenter. Tire.



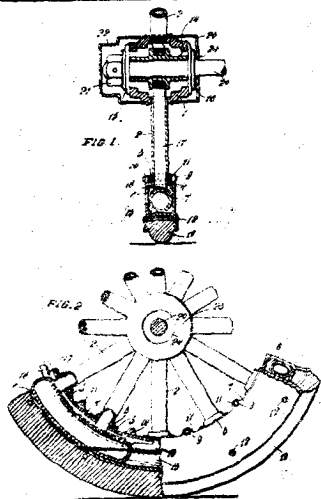
22496
A. P. F. and G. D. Watson. Fencing-standard.



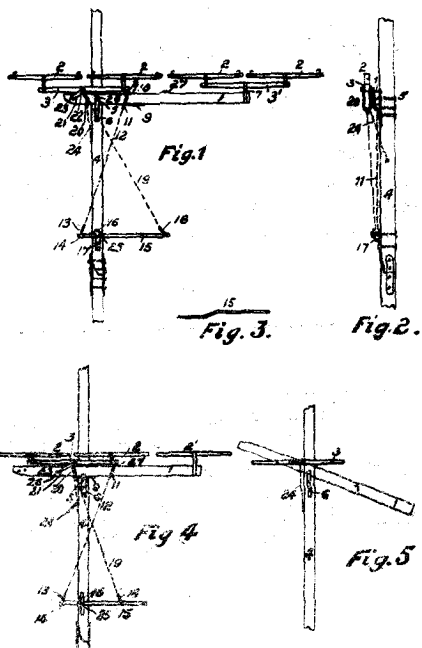
22479
Davey. Military Equipments.



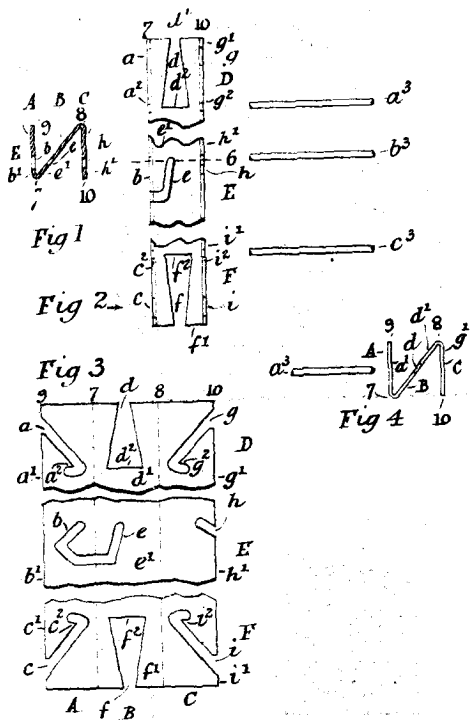
22521
L., H., and L. Mote. Ladder.



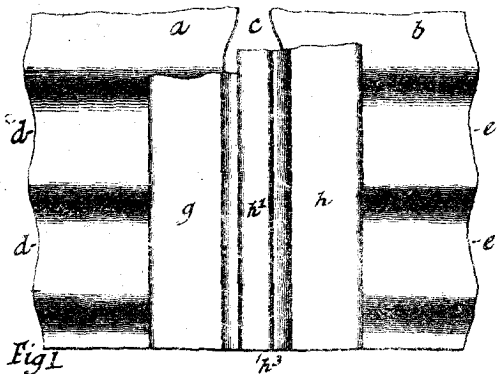
21940
J. and A. Burfoot. Pneumatic-wheels.



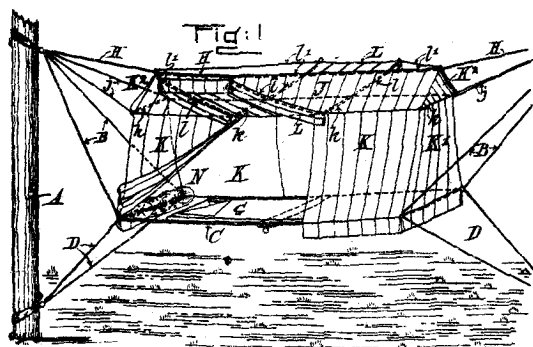
22435
Stewart. Draught-attachment.



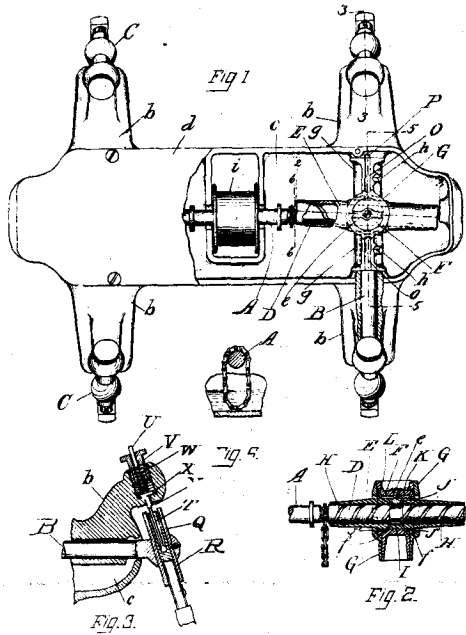
22476
Bunning. Fence-dropper. (Cromwell.)



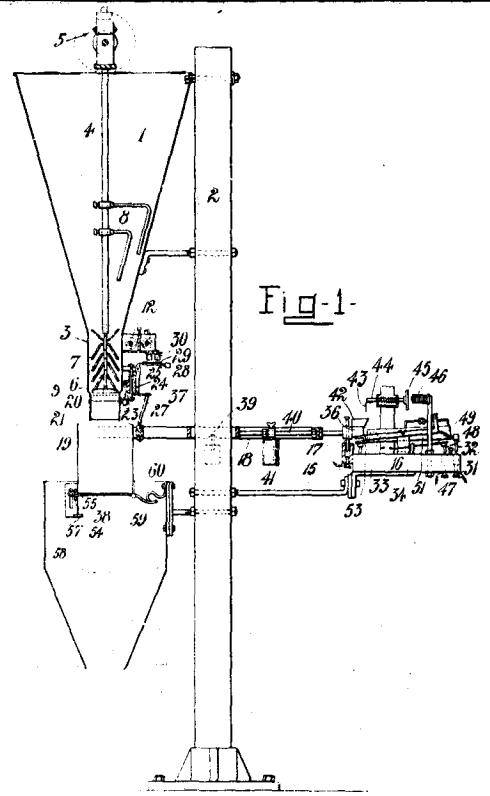
22475
Mence and Stewart. Ridge-capping.



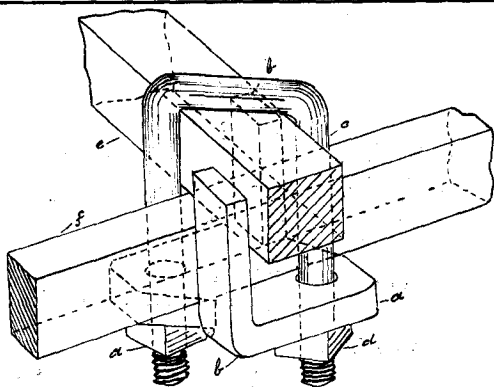
22394
Hellberg Hammock.



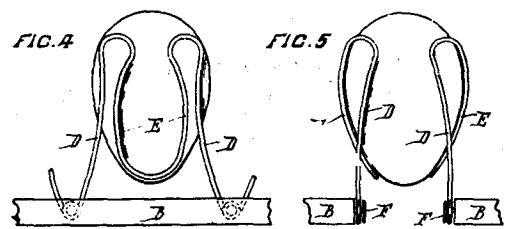
21072
United Shoe Machinery Co. Boot or Shoe Machine. (Jerram and Bates.)



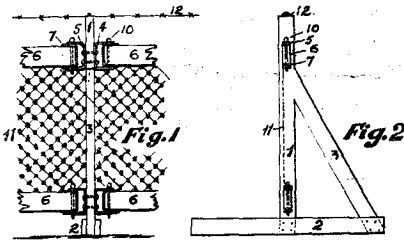
21293
Whitehorn. Tea-weigher.



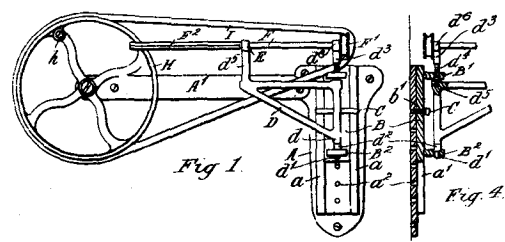
21238
J. and W. J. O'Hara. Metal-fastenings.



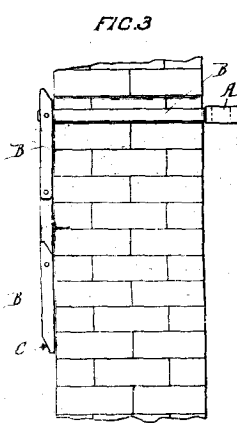
22271
Wilson and Burke. Egg-carrier.



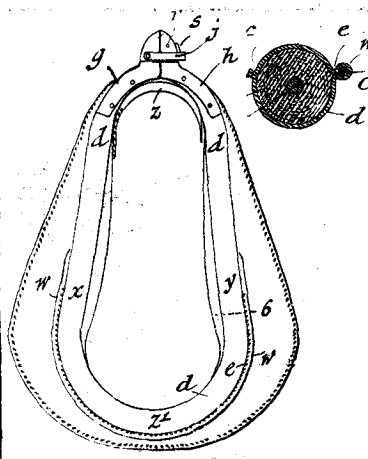
21088
Hamilton. Sheep-fence.



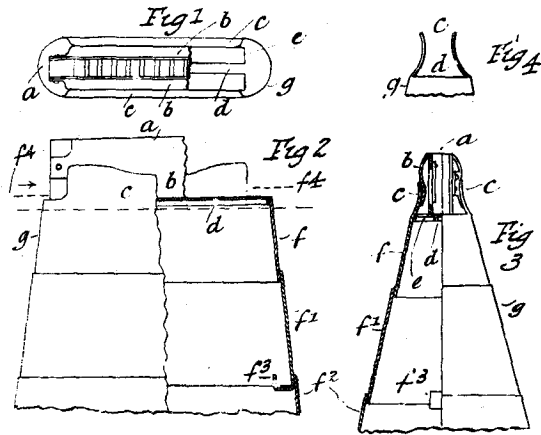
22483
McLennan and Craddock. Spinal-brush.



21216
Lucas. Scaffolding-bracket.



21534
Finnigan. Horse-collar.



22116
Dickens. Mouth-organ.