

Supplement to Government Gazette

OF

WESTERN AUSTRALIA.

[Published by Authority.]

No. 14. }
P.O. No. 10. }

PERTH: FRIDAY, MARCH 4.

[1904.]

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Note.—Throughout this Gazette the names in Italics within parentheses are those of Communicators of Inventions.

Complete Specifications.

Patent Office, Perth,
4th March, 1904.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the complete Specifications annexed thereto, have been accepted, and are now open to public inspection at this Office.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the date of this Gazette. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 4807.—GEORGE HILL and GEORGE PERRY, of 114 King Street, Perth, Plumbers, "*Improved Exhaust Ventilator.*"—Dated 16th February, 1904.

Claims:—

1. The shape of this ventilator as shown in drawings.
2. The disc C on drawings put in to catch drift rain water. The tube B to carry water out through half-inch hole A in cone.

Specifications, 1s. Drawings on application.

Application No. 4810.—DE BEAUVIOR DE LISLE, of Wainmate Valley, Gisborn, Sheep Farmer, and EDWIN VALENTINE LUTTRELL, Veterinary Surgeon, Gisborn, New Zealand, "*An improved Branding Composition.*"—Dated 19th February, 1904.

Claims:—

1. The herein described composition of matter, consisting of coal tar and antimony (tartar emetic) substantially as described, and for the purpose specified.

Specifications, 2s.

Application No. 4812.—ROBERT LIVINGSTONE LOCKERBIE, of Mary Street, East Invercargill, New Zealand, Carpenter, "*Improvements in means for hanging sashes, doors, and the like.*"—Dated 23rd February, 1904.

Claims:—

1. The general construction arrangement and combination of parts composing my improved means for hanging sashes doors and the like all substantially as and for the purposes set forth.

2. A continuous cord extending from one end of a spring actuated roller to the other end thereof running round pulleys mounted at or near each end of the top rail of a sash—said cord being secured to said roller so as to be wound up thereby substantially as and for the purposes set forth.

3. A telescoping roller consisting of a hollow spindle, a supporting bearing for one end thereof, two circular flanges thereon forming a drum near said bearing a spring surrounding said hollow spindle and secured by one end thereto and by its other end to a case covering said hollow spindle, a locking bolt on said case adapted to enter a hole in one of said flanges, a loose spindle with one end adapted to enter said hollow spindle and with its other end to enter a sheath, a supporting bearing for one end of said sheath, two circular flanges on said sheath forming a drum and a set screw to clamp said loose spindle to said sheath at a desired length substantially as and for the purposes set forth.

Specifications, 5s. 6d. Drawings on application.

Application No. 4813.—EDWIN PHILLIPS, of 533 Collins Street, Melbourne, in the State of Victoria, Commonwealth of Australia, Certified Patent Agent and Engineer (*Olho Cromwell Duryea and Morris Columbus White*), "*High Compression Gas or Vapour Engine.*"—Dated 23rd February, 1904.

Claims:—

1. In a free piston engine arranging and forming the pistons and cylinders so that the former are capable of entirely filling up the ends of the latter whereby an extremely high compression of the interposed charge can be obtained on the return movement of the pistons.

2. In a free piston engine an automatic ignition of the charge by means of the high compression of the same, substantially as described.

3. In a free piston engine continuing the compression of the charge after the self-ignition of the same, substantially as and for the purpose described.

4. In a free piston engine forming a deflector on the back end of the piston and a recess in the cylinder for this deflector to enter on its return stroke, substantially as and for the purpose described.

5. A free piston engine with inter-connected self-balanced free pistons, the various parts of which engine are arranged and co-act substantially as set forth and shown in the accompanying drawings.

Specifications, 22s. Drawings on application.

Application No. 4814.—LUTHER PETER FRIESTEDT, Contracting Engineer, of No. 1200 Tribune Building, Chicago, County of Cook, State of Illinois, United States of America, "*Metal Sheet Piling.*"—Dated 23rd February, 1904.

Claims:—

1. A metal sheet-piling, composed of beam-sections assembled together and presenting a single wall at all points, and means for locking said beam-sections in their interlocked engagement.

2. A metal sheet-piling, comprising beam-sections having interlocking edges and joined together in the relative alternate position shown, and in presenting a single wall at all points.

3. A metal sheet-piling, composed of channel-beams joined edgewise and having the back and channel sides thereof positioned alternately with reference to each other when assembled in a wall structure.

4. In metal sheet-piling, the combination with piling beam-sections interlocked along their flanged edges in continuous order of succession, of the angle z-bars secured to and preventing the displacement of the sections when assembled together.

5. In metal sheet-piling, a corner section composed of companion L-beams positioned at right angles with reference to each other, of an angle-iron rigidly joining the L-beams and the companion z-bars secured thereto.

Specifications, 6s. Drawings on application.

R. G. FERGUSON,

Registrar of Patents.

Renewal Fee paid on Patent registered from the 20th to 27th February, 1904.

Fee payable before the end of the seventh year in respect of the seven following years:—

No. 1657.—Blanton Patents Syndicate, Ltd.



Government Gazette

PERTH, FRIDAY, 4 MARCH 1904 No. 14a

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Trade Marks