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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,
6th November, 1903.

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. 4599.—HARRY CHARLES HADLAND, of Naroo Station, near Onslow, Western Australia, Fencer, "*An improved Wire Strainer, to be called the 'Duplex Wire Strainer.'*"—Dated 21st October, 1903.

Claims:—

1. In wire strainers:—a double action ratchet as e having pawls as e4 and e5 in combination with a straining reel as a and gripping appliances as denoted and included by the parts b and b3 to c2 for taking up the slack of the wires b1 and b2 substantially as herein explained and set forth and as illustrated in the attached drawings.
2. The peculiar combination and construction of parts forming my improved double action strainers substantially as herein explained and set forth and as illustrated in the attached drawings.

Specifications, 4s. 6d. Drawings on application.

Application No. 4615.—WILLIAM BENNET, of 49 Moray Place, Dunedin, Bootmaker, "*Improved renewable and reversible heels and renewable soles for boots and shoes.*"—Dated 22nd September, 1903.

Claims:—

1. The method of furnishing boots or shoes with removeable or renewable and reversible heels and removeable or renewable soles by making said wearing parts of soles and heels attachable and detachable, substantially as set forth herein and as shown on the accompanying drawings.
2. In combination, a boot or shoe A B D, renewable and reversible heels C and renewable soles E, attached by slides G G¹ and a screw all substantially as set forth.
3. In combination, a boot or shoe A B D, slides G G¹, a strip H, attachable heels C, and soles E, all substantially as set forth.
4. In combination a boot or shoe A B an attachable heel C attached or detached by a plate F bent up snugs or staples F¹, fitting recesses F², and secured by pins F³, all substantially as shown and as described herein.
5. In boots or shoes having renewable and reversible heels and renewable soles, in combination, the outer slides G² so extended and turned up as to protect the ply of said footwear, all substantially as set forth.
6. In boots and shoes furnished with renewable and reversible heels and renewable soles, in combination, heels attached by a plate F out of which staples are formed. F¹ said staples fitting recesses F², and secured by pins F³, with soles secured by slides G G¹, and screws, all substantially as set forth.
7. In boots and shoes furnished with renewable soles or heels, any securing screw-head protected by a strip of metal inserted in the material of the sole or heel over the head of same, substantially as set forth.

Specifications, 5s. Drawings on application.

Application No. 4643.—OCTAVIUS CHARLES BEALE and CARL JOHANN VADER, Annandale, in the State of New South Wales, Manufacturer and Engineer respectively, "*An improved Wrest Pin for Pianos and such like instruments.*"—Dated 13th October, 1903.

Claims:—

1. A tuning pin having a part intermediate its ends cylindrical and having a conical head or shoulder adapted to take up looseness of the pin in the piano frame when adjusted longitudinally, substantially as described and as illustrated in the drawings.
2. The combination with a piano or like instrument having in its frame an orifice for receiving a tuning pin, the wall of said orifice having a tapered part, of a tuning pin which is cylindrical intermediate its ends, and having a conical head or shoulder adapted to the corresponding wall of the frame orifice, and a screw adjustment for effecting a longitudinal movement of the pin, substantially as described and as illustrated in the drawings.

Specifications, 6s. Drawings on application.

Application No. 4655.—HARRY JOHNSON WRIGHT, of Brynarto, Leabedri, in the County of Merioneth, North Wales, Mine Manager, "*Improvements relating to rock drills.*"—Dated 21st October, 1903.

Claims:—

1. The distributing valve actuated and controlled directly by the pressure fluid from the main supply, substantially as and for the purposes hereinbefore described.
2. The distributing valve actuated by the pressure fluid from the main supply in such a manner that it is cushioned by the reversing fluid, substantially as and for the purposes hereinbefore described.
3. The distributing valve actuated directly by the live pressure fluid from the main supply and adapted to augment the supply of pressure fluid to the cylinder at the commencement of the forward stroke of the piston, substantially as and for the purposes hereinbefore described.
4. The herein described means for obtaining a rapid exhaust whereby the working piston is relieved from back pressure, substantially as and for the purposes specified.
5. The means for automatically supplying lubricant, substantially as and for the purposes hereinbefore described.
6. In a rock drill, the combination of the working cylinder and piston and a distributing slide-valve controlled by the working piston in such a manner that the said valve is operated directly by the live fluid from the main supply, substantially as set forth.
7. The distributing valve having its parts constructed, arranged and adapted to operate substantially as hereinbefore described with reference to the accompanying drawings for the purposes specified.

Specifications, 9s. Drawings on application.

Application No. 4656.—THOMAS HEYWOOD IBOTSON, of Greig's Wharf, Blackwall Lane, East Greenwich, in the county of Kent, England, Asbestos Manufacturer, and ROBERT MELDRUM, F.C.S., of Glynwood, Folye Road, Blackheath, in the county of Kent, England, Chemist, "*Improvements in or relating to process for the manufacture of Asbestos Millboards, Slates, Plates, or Tiles.*"—Dated 21st October, 1903.

Claims:—

1. The process of manufacture of the hereinbefore described material by pulping suitable asbestos in a solution of chloride of magnesium, adding thereto suitable oxide of magnesium, separating the superfluous liquid by filtration, pressing the substance deposited on the filter bed, drying the same and subsequently treating it to a solution of silicate of either potash or soda, all in the manner and for the purpose hereinbefore described.
2. The process of manufacture of the hereinbefore described material by pulping suitable asbestos in water, adding thereto suitable oxide of magnesium, separating the superfluous liquid by filtration, pressing



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