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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,
19th December, 1902.

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. 3739.—OTTO KRUG and ERNEST CHARLES SWAR, both of Swan Street, North Fremantle, Western Australia, Blacksmiths, "*An improved Extension Ladder, principally adapted for Fire Brigade and Escape purposes.*"—Dated 6th February, 1902.

Claims:—

1. A ladder comprised of multiple extensions as a, b, and c of any number such extensions working in fellowship and being provided with guides and means for raising and lowering and for maintaining them at their desired heights substantially as herein described and set forth and as illustrated in the attached drawings.

2. In an extension ladder as above set forth and claimed a bracket as g, pivoted as at g1, and operated by pull ropes g2, and g3, for holding the next upper sectional ladder at its desired height substantially as herein described and set forth and as illustrated in the attached drawings.

3. In an extension ladder as above set forth and claimed provided with the guides as f and f2, for holding the ladders during their upward or downward travel, and provided with the means for raising or lowering consisting of the ropes as a3, the sheave as a4, and the hoisting drum as a2 substantially as herein described and set forth and as illustrated in the attached drawings.

Specification, 6s. Drawings on application.

Application No. 3754.—THOMAS GOUCHER, of Ulverstone, in the State of Tasmania, Commonwealth of Australia, (Staff Sergeant-Major, Infantry Instructor) "*An improved Disappearing Target for Rifle Practice.*"—Dated 27th February, 1902.

Claims:—

1. My improved disappearing target for rifle practice consisting of the various parts constructed, combined and arranged, substantially as herein specified and as illustrated in the accompanying drawings.

2. In a disappearing target for rifle practice a swing carriage consisting of two stout arms or beams halved together near one end and rigidly secured by diagonal braces substantially as and for the purposes specified and as illustrated in the accompanying drawings.

3. In a disappearing target for rifle practice a swing carriage consisting of two stout arms or beams secured at right angles to each other and rigidly braced with diagonal braces in combination with a pivot pin or bolt passing through a close-fitting sleeve or tube extending through said braces, substantially as and for the purposes specified, and as illustrated in the accompanying drawings.

4. In a disappearing target for rifle practice extension or wing pieces (as C1) adapted to be fitted on to the sides of second class targets, substantially as and for the purposes specified, and as illustrated in the accompanying drawings.

Specifications, 7s. 6d. Drawings on application.

Application No. 4116.—JOSEPH WELLINGTON FERGUSON and GEORGE WELSH FERGUSON, both of Sydney Road, Wangaratta, in the State of Victoria, Commonwealth of Australia, brickmakers, "*Improvements in Brick or Briquette-making Machines.*"—Dated 11th November, 1902.

Claims:—

1. In an improved brick or briquette-making machine moulds and partitions forced from a press box by a ram and pitman said pitman being pivoted to a crank, said crank loose upon the main driving shaft and rotated therewith by a clutch rotating with the said shaft, said clutch having a circumferential groove around it, in which engages a fork for the arm of which has a round thereon, said arm being pivoted to a pillar, a clutch lever having a vertical recess beneath the same and engaging the said rounded portion on the arm all as and for the purposes hereinbefore described and as illustrated in the drawings.

2. In an improved brick or briquette-making machine a main shaft, a toothed wheel thereon, a ratchet wheel, a square or keyed portion having a clutch sliding longitudinally thereon, a crank loose upon said shaft and rotated by engagement with said clutch, a pitman to said crank reciprocating a ram forcing the moulds from a press box, in combination with a cutter pivoted to a lever on a rocking shaft, said lever being operated by a connecting rod and the tappet of which connecting rod engages with a ratchet wheel and is retained there by a depending stud bearing against one side of a guide all as and for the purpose hereinbefore described and as illustrated in the drawings.

3. In an improved brick or briquette-making machine a barrel having therein a worm rotated by toothed wheels, a shaping passage at the end of said barrel, having holes in the side walls thereof, a sand box around said holes in combination with a press box into the mouth of which by a cutter is deposited a mould, a partition box above said hopper, a ram forcing a partition piece and the mould from the said press box, said ram being operated by a pitman pivoted to a crank, said crank being loose upon the main shaft and rotated by a clutch thrown out of gear by an eccentric striking face on the crank operating the clutch lever arm and thrown into gear by the tappet of a connecting rod striking the tappet end of the clutch lever all as and for the purposes hereinbefore described and as illustrated in the drawings.

4. The improved brick or briquette-making machine consisting of a hopper above a barrel, a worm and shaft in said barrel rotated by toothed wheels, a shaping passage at the end of said barrel with holes in the side walls surrounded by a sand box, a striking plate facing said shaping passage, the said striking plate being pivoted to a lever thrown towards the passage by a spring and forced from it by the exuding clay, a link pivoted to said lever and to a connecting rod, said link forcing the tappet into teeth upon a ratchet wheel, a depending stud from said connecting rod bearing against a guide secured to the frame, a lever pivoted to said connecting rod operating a rocking shaft, said rocking shaft having thereon a cutter lever to which is pivoted a cutter, a press box having a mouth therein below said cutter, a partition box above said press box, a ram reciprocated by a pitman in said press box, a crank loose upon the main shaft but engaged thereto by a clutch operated by a fork having an arm with a round thereon, said clutch being thrown out of gear by an eccentric striking face on the end of the crank, a clutch lever beneath which is a vertical recess embracing a round on the said arm, said clutch being thrown into gear by a tappet striking the tappet end of said clutch lever, all as and for the purposes hereinbefore described and as illustrated in the drawings.

Specification, 13s. Drawings on application.

Application No. 4122.—JOHN ROGER, of 6 Coningsby Road, Finsbury Park, London, England, late a Tea Planter in Ceylon, and MONTAGUE KELWAY BAMBER, of the Laboratory, Hyde Park Corner, Cinnamon Gardens, Colombo, Ceylon, Agricultural Chemist, "*An improved process for obtaining a Soluble Extract of Tea.*"—Dated 18th November, 1902.



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