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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 September, 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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian Government Gazette. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 3653.—SAMUEL SMYTH COBURN, of Mannington Road, Hawthorn, in the State of Victoria, Medical Student, "*An improved Collapsible Field Gate.*"—Dated 28th November, 1902.

Claims:—

1. In a collapsible field gate such as described, a main rail such as A¹, rocking or working pivotally on a cross-axle at a point between the butt and gear posts capable of being raised and lowered by a hand-cord or cable and counterbalanced by a weight such as a, as before described and illustrated.

2. In a collapsible field gate such as described a fore dropper such as L³ and a series or plurality of swinging droppers such as L suspended from rigidly set metal loops secured to the main rail capable of collapsing or folding in closely to the line of such main rail when such main rail is raised from a horizontal to a practically vertical position as before described and illustrated.

3. In or on the droppers of a collapsible field gate such as described, a plurality or series of diagonally set semi-circular projecting loops such as L², carrying and keeping the wire rails of such gate in position as before described and as illustrated in Figure 8 of the accompanying drawing.

4. In the wire rails of a collapsible field gate such as described, a tension spring formed by a series of ringed convolutions bent or turned in the rail and a detachable wire strain-check loop fitted thereto such as L¹, as before described and as illustrated in Figure 9 of the accompanying drawings.

5. As a collapsible field gate such as A, and operating mechanism, the combination of a main rail such as A¹, standard such as E, counter-balance weight such as a, boss and cross-axle such as A², tension wire such as G, rigid loops such as F, fore dropper such as L³, a plurality of swinging dropper such as L, with diagonal loops such as L², a plurality of wire rails such as M with springs and strain-check loops such as L¹, butt post such as B, gear post such as D, double pulley and mountings such as I, I¹, forked fore-post such as C, double operating cable such as H, lock-operating cable such as J, sextant rocking pulley such as J¹, lock spring such as j, and lock catch such as K, fitted together, adjusted and operating as before described and as illustrated.

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

Application No. 4010.—WILLIAM BRADY, of No. 1000, 1/2 Hyde Street, in the City and County of San Francisco, State of California, U.S.A., Miner, "*Rock-drills.*"—Dated 26th August, 1902.

Claims:—

1. An apparatus for drilling rock and striking blows consisting of two cylinders in the same line with the pistons fixed to the same piston-rod, and a device for rotably connecting the tool at the front end, said device comprising a clamp, and inclined rods slidable through

holes in a ratchet disk which is revolved freely when the tool moves forward, and is held by a pawl so that the inclined rods turn the tool as it is retracted, means for admitting an explosive gas and igniting it alternately at the rear of each piston, and an independent means for returning the pistons and tool after each forward impulse.

2. A pair of cylinders united in line, a supporting base with guides and means for sliding the cylinders forward upon the guides, pistons in each cylinder fixed to a piston rod which carries a drill or tool at its front end, means for admitting an explosive gas behind each piston alternately, and igniting it to produce a blow of the tool, a returning spring and a crank shaft, with a pinion engaging a rack attached to the drill head, said pinion having a pawl which connects it with the crank shaft to draw the pistons and drill back and a releasing device to allow the pinion to turn freely when the pistons are driven forward.

3. An apparatus for striking blows upon drills and the like, consisting of an explosive engine by which the movable parts are impelled and a blow delivered, mechanism by which the parts are returned and the engine charged for an explosion after each forward impulse, and mechanism to advance the apparatus on its base as the work proceeds.

Specification, 11s. 6d. Drawings on application.

R. G. FERGUSON,
Registrar of Patents.

Patent Office, Perth,
12th September, 1902.

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For particulars of claims, vide Gazette No. 37, 12th September, 1902.

Application No. 3969.—ARTHUR DUNBAR, of Normanby Road, South Melbourne, in the State of Victoria, Consulting Engineer, "*Improvements in feed water Heaters and Distributors.*"—Dated 29th July, 1902.

Specification, 2s. 6d. Drawings on application.

Application No. 4013.—ANNIE SOPHIA BAND, of 1 Birtley Place, Elizabeth Bay Road, Elizabeth Bay, near Sydney, in the State of New South Wales, married woman, "*An improved Clip for securing crossed wires in Fences, Gates, and Hurdles.*"—Dated 27th August, 1902.

Specification, 2s. 6d. Drawings on application.

Application No. 4016.—GEORGE SIMPSON, of No. 54 Gardner Street, Richmond, in the State of Victoria, and Commonwealth of Australia, Carpenter, "*An improved window-sash fastener.*"—Dated 27th August, 1902.

Specifications, 2s. Drawings on application.



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