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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,
15th May, 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. 3907.—ENOCH RICHARDSON, of 18 Main Street, Hawthorn, Victoria, Engineer, "*An improved Electrical Amalgamating and Concentrating Apparatus for the extraction of gold, silver, amalgam, and floured mercury from refractory ores, slimes, battery and alluvial tailings, and other waste products, by the combined use of electricity, hydrogen, and mercury.*"—Dated 17th June, 1902.

Claims:—

1. In the herein machine, consisting of the parts A, B, C and D, for the extraction of gold and silver from refractory ores, slimes, battery and alluvial tailings and other waste products, in combination with electricity, hydrogen and mercury, the travelling chain f, with angled plates f¹, running over gum metal sprockets, sections B and C, Figure 1, as before described.

2. In the herein machine, consisting of the parts A, B, C and D for the extraction of gold and silver from refractory ores, slimes, battery and alluvial tailings and other waste products, in combination with electricity, hydrogen and mercury, the insulating glass plates c and e, sections B and C, Figure 1, as before described.

3. In the herein machine, consisting of the parts A, B, C and D, for the extraction of gold and silver from refractory ores, slimes, battery and alluvial tailings and other waste products, in combination with electricity, hydrogen and mercury, the travelling belt b, working on rollers c, c¹ and c², with revolving brush e, section D, Figures 3 and 4, as before described.

4. The herein specified machine for the extraction of gold and silver from refractory ores, slimes, battery and alluvial tailings and other waste products, in combination with electricity, hydrogen and mercury, consisting of the parts A, B, C and D combined, as constructed and arranged, substantially as described and illustrated, as and for the purpose set forth as a combination of parts.

Specification, 6s. Drawings on application.

Application No. 3991.—HENRY UPTON ALCOCK, of Nos. 208-212 Russell Street, Melbourne, Victoria, Billiard Table Manufacturer, "*An improved convertible Billiard and Dining Table.*"—Dated 12th August, 1902.

Claims:—

1. In an improved convertible billiard and dining table a single sliding frame as B having four inclined plane or wedge-shaped surfaces on it, supported on side rails carried by the legged frame combined with a movable table having cheeks on its underside formed with four inclined paths or surfaces on them and with the rod screwed one way only and the screwed nut substantially as described and shown in Figs. 1, 2, and 3.

2. In an improved convertible billiard and dining table the combination of a sliding frame as B having four upper and four lower inclined plane surfaces, lower rail or inclined path pieces attached to a legged

frame and upper rails or inclined path pieces attached to the underside of a movable table with a screw rod C² threaded one way only and a screwed nut C substantially as described and as shown in Fig. 4 of the drawings.

3. In an improved convertible billiard and dining table the alternative means of lifting and lowering the table consisting of the combination of toggle levers F transverse bar as F¹ bearing a screwed nut at its centre screwed rod C², threaded one way only, and the side rods F² all arranged and assembled substantially as described and as shown in Figs. 5 and 6 of the drawings.

4. An improved convertible billiard and dining table consisting of the combination of a legged frame as A provided with rails as A¹ sliding frame as B having four inclined plane or wedge-shaped surfaces b on it screw rod C² screwed one way only attached to the legged frame and the screwed nut C attached to the sliding frame, with the movable table D¹ having under cheeks D which have inclined paths to fit said sliding frame and the vertical guides E attached to the legged frame and fitting into grooves in the cheeks D, substantially as described and shown in Figs. 1, 2, and 3.

Specification, 5s. Drawings on application.

Application No. 4326.—MATTHEW HENRY READ, of Kalgoorlie, Western Australia, Blacksmith, "*Improved Grubbing Machine.*"—Dated 17th March, 1903.

Claims:—

1. In straining machines—a bar as a having serrations as a¹ and provided with sliding boxes a² for carrying drop retention pawls as a³ substantially as and for the purposes herein set forth and as illustrated in the attached drawings.

2. In straining machines—an operative bifurcated lever as b connected by rods as a⁷ to boxes as a² and having trunnions c which are attached by a bridle piece as d to the anchor substantially as and for the purposes herein set forth and as illustrated in the attached drawings.

3. A straining or pulling appliance consisting of a serrated bar as a having boxes as a² and drop pawls as a³ said boxes being connected by rods as a⁷ to the operative lever as b to b⁷ having trunnions c on which are mounted a bridle or hanger piece d having guides c² and c³ all in operative combination as herein set forth and for the purposes specified and as illustrated in the attached drawings.

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

Application No. 4374.—GEORGE HARRY HAYES, of 61 Guildford Street, Russell Square, London, Engineer, "*Improvements in Pneumatic Drills and like machines.*"—Dated 8th April, 1903.

Claims:—

1. In a hand portable pneumatic tool of the type set forth, an axially oscillating controlling and reversing valve consisting of a single part arranged across or at right angles to relatively fixed cylinders, a sleeve on the machine handle and means operatively connecting said valve and the sleeve whereby the valve may be moved longitudinally for the purpose of reversing the revolution of the crank shaft and tool.

2. In a portable pneumatic drilling machine comprising at least two sets of fluid pressure cylinders in each set and the cylinders in one set arranged substantially at right angles with the cylinders in the other set, a central transverse fluid pressure passage in the machine body between the sets of parallel cylinders two controlling valve chambers between and at right angles to the parallel set of cylinders and to the fluid pressure passage, a partially rotating cylindrical valve in each valve chamber, means on the crank shaft for oscillating said valves so as to control the admission of fluid pressure to and its exhaust from the cylinders, and means on the machine handle operatively connected to said valves so as to move both valves simultaneously for reversing the working of the machine, substantially as set forth.

3. A hand portable pneumatic drilling machine, having a main casing or body formed in one casting comprising at least four fluid pressure cylinders arranged in pairs, two controlling valve chambers arranged transversely to and between the pairs of cylinders, a central transverse fluid pressure passage connecting directly with the valve chambers and with the pressure inlet in the machine handle; an



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