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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,  
23rd October, 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. 4513.—ALFRED ERNEST WARNE, of "Tomerong," Nowra, Shoalhaven, in the State of New South Wales, Mining Engineer, "*Improvements in Ore Concentrators.*"—Dated 15th July, 1903.

### Claims:—

1. In an ore concentrating machine an endless belt travelling on suitable rollers in combination with an underlying cleaning brush in constant contact therewith, submerged in a water tank and rotated in a direction opposite to the travel of the belt.

2. In an ore concentrating machine an endless belt provided with the necessary flanges and covered with a suitable material such as plush, blanketing, matting or the like, travelling on rollers so placed as to present an inclined plane on which the ore material and the necessary water are deposited from overlying distributors, means for altering the grade of the said inclined plane, and a tension roller and means for adjusting same; all in combination with a cleaning brush in continual contact with the face of the belt, submerged in a water tank and rotated in a direction opposite to the travel of the belt.

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

Application No. 4638.—THOMAS BURRELL, of 193 Abbotsford Street, North Melbourne, in the State of Victoria, Australia, Mechanic, "*Improved auxiliary adjustable Sole and Heel for Boots and Shoes.*"—Dated 7th October, 1903.

### Claims:—

1. An improved auxiliary adjustable sole and heel for boots and shoes having a series of elongated slots punched or cut out of the body approximately in line with its contour but some distance from the edge substantially as set forth and as illustrated.

2. An improved auxiliary adjustable sole and heel for boots and shoes having a double row of elongated slots punched out of the body so that said slots overlap each other at the joints, substantially as set forth and as illustrated.

Specification, 2s. Drawings on application.

Application No. 4640.—JOHANN ERNST GERSCH, of Dimboola, in the State of Victoria, Commonwealth of Australia, Machinist, "*Improved method of and appliances for propelling machines, implements, vehicles, and the like.*"—Dated 13th October, 1903.

### Claims:—

1. The improved method of and appliances for propulsion consisting in the construction arrangement and operation of a set of two or more bars or legs and feet which are actuated by suitable mechanism, the said feet and mechanism being supported and carried upon a wheeled frame or carriage substantially as described.

2. The improved method of and appliances for propulsion consisting in the construction arrangement and operation of a set of two or more bars or legs and feet which are connected with actuating mechanism preferably a number of eccentrics one for each leg such eccentrics being secured upon a shaft rotated by an oil engine or other motive power supported or carried upon a wheeled frame or carriage as and for the purposes set forth.

3. In means for propulsion two or more feet constituting the lower end of legs each leg being mounted upon its corresponding eccentric and the leg preferably bent as described so that the foot strikes against the ground with an action resembling that of a horse's foot as and for the purpose set forth.

4. In means for propulsion such as described, a set of feet and legs which are separately and eccentrically mounted upon a main shaft, a cross spindle with cams one beneath each leg, and quadrants flexibly connected to the legs whereby the legs are raised as and when required substantially as described.

5. In means for propulsion feet and legs which are eccentrically mounted the eccentrics operating at varied degrees and positions of eccentricity and quadrants flexibly connected to the legs whereby the legs are raised as and when required substantially as set forth and illustrated.

6. In means for propulsion such as described, the employment of eccentrics comprising a ring preferably of wrought iron and a bar or plate having a hub or boss which fits upon the main shaft said ring being secured to said bar by clamping bolts and plate so that the position of the ring may be varied upon the bar and the amount of its eccentricity adjusted substantially as described.

7. In means for propulsion such as described comprising a set of bars or feet and legs the upper ends of which are eccentrically mounted upon a main spindle the connection of the feet to the legs by a joint which allows the foot to give as it is drawn forward but locks as it is thrust backward substantially as described and for the purpose set forth.

8. In means for propulsion such as described comprising a set of bars or feet and legs the upper ends of which are eccentrically mounted upon a main spindle the attachment to the feet of plates or shoes which prevent them sinking in soft or sandy ground substantially as described.

Specification, 10s. Drawings on application.

Application No. 4642.—JOHN JOSEPH MATTHEWS, of Maldon, in the State of Victoria, Commonwealth of Australia, Plumber, "*Improvements in acetylene generator apparatus.*"—Dated 13th October, 1903.

### Claims:—

1. In acetylene generating apparatus the combination with a water tank having an overflow, and having two U-shaped tubes (provided with a service pipe and means for drainage) arranged for purifying, cooling and delivering acetylene, of an annular floating gas storage bell, and, jointed within the same, a gas generating chamber casing having inserted within it from below an annular carbide chamber having water inlets, the stand pipes being located relatively to said bell and chambers as and for the purposes set forth.

2. In acetylene generating apparatus the combination with an annular gas bell of a water tank having a U-shaped tube, the limbs of which rise higher than the tank sides, arranged for delivering cooled gas into the gas bell and having a valve to prevent its return, and another U-shaped tube, the limbs of which also rise higher than the tank sides adapted for the purifying and further cooling of the acetylene and for its delivery through a service pipe, said tank having also a drainage pipe all as and for the purposes set forth.

3. In acetylene generating apparatus the combination with a chamber (d) having a valve (d<sup>1</sup>) normally closed but capable of being opened inwardly, of a carbide chamber (a) inserted in the chamber (d) through the base thereof and secured by a bayonet joint or the like, the chamber (a) having an internal wall open at the top and bottom all as and for the purposes set forth.

Specification, 5s. Drawings on application.

Application No. 4644.—EDMUND JOHNSTONE WILSON, of Jeetho, in the State of Victoria and Commonwealth of Australia, Grazier, "*Improvements in Reversible Ploughs.*"—Dated 13th October, 1903.



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Applications for the Grant of Letters Patent