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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,  
7th February, 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. 3718.—THE WILFLEY ORE CONCENTRATOR SYNDICATE, LIMITED, of 7-11 Moorgate Street, London, England (Assignee of ARTHUR REDMAN WILFLEY), "*Improvements in Ore Concentrators.*"—Dated 15th January, 1902.

#### Claims:—

1. In an ore concentrator, the combination with a base or bed frame and a table or deck supported thereby and adapted to move with respect thereto, of wedges interposed between said parts at opposite sides thereof and means for simultaneously shifting said wedges whereby to raise one edge of the deck or table and lower the other, substantially as specified.
2. The combination with a base or bed frame and a table or deck supported thereby and adapted to move with respect thereto, or oppositely inclined wedges interposed between said parts at opposite sides thereof, rods connecting the sets of wedges together, racks on said rods, a rock shaft, means for rocking the latter and pinions on the rock shaft engaging the rack teeth on the rods for reciprocating the latter simultaneously in one direction or the other whereby the deck or table is simultaneously raised at one edge and lowered at the other, substantially as specified.
3. The combination with a bed or base frame, rods having sliding connection therewith and carrying wedges, the wedges on the two rods inclining in reverse directions, said rods having rack teeth, a rock shaft having pinions which engage said rack teeth, and an intermediate frame supported by the bed or base frame in position, so that its opposite edges are simultaneously raised and lowered as a result of the endwise movement of the rods which carry the wedges, of a concentrator deck or table having reciprocating connection with the intermediate frame, substantially as specified.
4. The combination with a base or bed frame and a concentrator table having sliding connection therewith, of a draw or thrust bar connected with the table at one end, means for supporting it at the other end, means for positively moving the draw or thrust bar in one direction and tension mechanism against which the bar abuts as it is moved in one direction and which gives pressure to it in its opposite movement, substantially as specified.
5. The combination with a base or bed frame and a concentrator deck or table constructed and adapted to move with respect thereto, of a fixed post or abutment secured upon the frame, a spring actuated abutment or bridge piece connected with the frame, a draw or thrust bar extending between the table to which it is attached and the bridge piece or movable abutment against which it abuts, toggle mechanism interposed between the draw or thrust bar and the fixed post or abutment, a crank shaft and a pitman extending from the latter to the toggle joint, substantially as specified.
6. The combination with a base or bed frame and a concentrator deck or table constructed and adapted to move with respect thereto, of a fixed post or abutment secured upon the frame, a spring actuated abutment or bridge piece connected with the frame, a draw or thrust bar extending between the table to which it is attached and the bridge piece or movable abutment against which it abuts, toggle mechanism

interposed between the draw or thrust bar and the fixed post or abutment, a crank shaft, a pitman extending from the latter to the toggle joint, and means for adjusting one end of the toggle joint with respect to the fixed post or abutment, substantially as specified.

7. The combination with a base or bed frame and a concentrator deck or table constructed and adapted to move with respect thereto, of a fixed post or abutment secured upon the frame, a spring actuated abutment or bridge piece connected with the frame, a draw or thrust bar of skeleton form having a hollow interior, said draw or thrust bar extending between the table to which it is attached and the bridge piece or movable abutment against which it abuts, toggle mechanism interposed between the draw or thrust bar and the fixed post or abutment, a crank shaft, a pitman extending from the latter to the toggle joint, the toggle, pitman, and fixed post extending through the hollow interior of the draw or thrust bar, substantially as specified.

8. The combination with a base or bed frame having a fixed post or abutment thereon, and a concentrator table or deck having sliding connection with the bed or base frame, of a movable bridge piece or abutment, means for regulating the tension thereof, a crank shaft, a pitman having oppositely extending sockets therein, bearing boxes held in said sockets, toggle arms extending in opposite directions from these bearing boxes, a draw or thrust bar connected with the table and adapted to abut against the movable abutment or bridge piece, a box carried by one end of the draw or thrust bar for the reception of one of the toggle arms, a hanger adjustably connected with the post on the bed or base frame, and a bearing box carried thereby for the reception of one end of the other toggle arm, substantially as specified.

9. The combination with a bed or base frame and a concentrator deck or table having sliding connection with respect thereto, of a draw or thrust bar connected at one end with one end of the table, a steel spring support for the opposite end, a bridge piece or movable abutment mounted outside such steel spring support, a tension device for holding the abutment or bridge piece inward, its upper end located in the path of the draw or thrust bar, and means for throwing the latter toward the bridge piece with a positive motion, substantially as specified.

10. The combination with a bed or base frame and a concentrator deck or table having sliding connection with respect thereto, of a draw or thrust bar connected at one end with one end of the table, a steel spring support for the opposite end, a bridge piece or movable abutment mounted outside such steel spring support, a tension device for holding the abutment or bridge piece inward, its upper end located in the path of the draw or thrust bar, and means for tilting the table laterally with the connection between the draw or thrust bar as an axis, substantially as specified.

11. The combination with a bed or base frame, of a concentrator deck or table having sliding connection therewith, said deck or table having a rod secured to its lower surface and extending in the axial centre thereof, a draw or thrust bar connected with this rod, and means for reciprocating the latter positively against a yielding abutment, substantially as specified.

12. The combination with a bed or base frame, an intermediate frame, and means for tilting the latter with respect to the bed or base frame, of a concentrator deck or table having sliding connection with the intermediate frame and means for reciprocating the deck or table, substantially as specified.

13. The combination with a bed or base frame, an intermediate frame carrying guides, oppositely inclined wedges interposed at opposite sides between said frames and means for moving these wedges simultaneously in the same direction whereby one edge of the intermediate frame is raised while the other is lowered, of a concentrator deck or table having tracks on its surface corresponding in position and adapted to enter and reciprocate in the guides on the intermediate frame, substantially as specified.

14. The combination with a bed or base frame, an intermediate frame carrying guides, oppositely inclined wedges interposed at opposite sides between said frame, and means for moving these wedges simultaneously in the same direction, whereby one edge of the intermediate frame is raised while the other is lowered, of a concentrator deck or table having tracks on its under surface corresponding in position and adapted to enter and reciprocate in the guides on the intermediate frame, and means for reciprocating the concentrator deck or table, substantially as specified.

Specification, 16s. 6d.; Drawings on application.



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Applications for the Grant of Letters Patent