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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,  
9th 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. 4123.—ARTHUR BERNARD GILL, of "Carlton," Blackheath Park, London, in England, Electrical Engineer, "*Improvements in apparatus for electrically lighting Railway Trains.*"—Dated 18th November, 1902.

Claims:—

1. The improved manner of attaching to the carriage the dynamo (A) driven by strap from a wheel axle (F) consisting in supporting it in a substantially vertical position from a horizontal bar (B), Figures 1 to 5, along which bar it can slide against the effort of a spring or weight (D), or supporting it from a slanting bar (B), Figures 6, 7, and 8, along which bar it can slide against the effort of gravity, or supporting it by weights (D) in cords (D<sup>1</sup>) passing over pulleys (D<sup>2</sup>), Figures 9 and 10, so that in all cases movement of the dynamo in any direction, except in a plane at right angles to the axle, is prevented, and for the purpose of adapting the dynamo to be applied in a more secure and efficient manner, and for the purpose of being able to use larger dynamos.

2. The improved means of reversing the direction of the dynamo characterised by that the rocking arm (M) is entirely supported on an extension (N<sup>1</sup>) of the bearing (N) and is partially rotated by friction between blocks (O) on spring plungers (P) working in guides (Q) and a groove formed by the flanges (M<sup>1</sup>) or (M<sup>2</sup>) on the boss of the rocking arm (M), Fig. 11, or by friction between blocks (O) on extensions (V<sup>1</sup>) of the governor arms (V), and a rim (M<sup>3</sup>) on the rocking arm, Figs. 12 and 13, while the axial movement of the rocking arm (M) is effected by the centrifugal action of the governor as described for the purpose of reducing the friction, lessening lubrication, and counteracting the effect of the parts wearing out of truth.

Application No. 4210.—HENRY MOORE SUTTON, EDWIN GOODWIN STEELE, WALTER LIVINGSTONE STEELE, and WILLIAM FOLSETTER, all of Dallas, in the County of Dallas and State of Texas, United States of America, Manufacturers, "*Improvements in Electro-static magnetic Separators.*"—Dated 30th December, 1902.

Claims:—

1. In an electro-static magnetic separator, a magnetically energized roller, and a statically charged member adapted to convey ore to said roller and to charge the same; substantially as specified.

2. In an electro-static magnetic separator, a magnetically energized roller, a statically charged member adapted to convey ore to said roller, and means for discharging metal carried by said magnetic roller; substantially as specified.

3. In an electro-static magnetic separator, a magnetically energized roller, a statically charged member adapted to convey ore to said roller, means for discharging metal carried by said roller, and a frame for said static member insulated therefrom and adapted to support and charge the magnetic roller; substantially as specified.

4. In a device of the class described, a magnetic roller comprising a series of plates, windings between said plates, lateral extensions carried by said plates and insulated from said windings, and a series of parallel conducting ridges encircling the periphery of said extensions and insulated from each other by fillings within the intervening grooves; substantially as specified.

5. In a device of the class described, a constantly energized magnetic roller having a series of magnetized faces, and a magnetic cleaner roller inductively energized from the magnetic roller and adapted to lie adjacent to said faces and rotate in the same direction therewith, substantially as specified.

6. In a device of the class described, a magnetic roller comprising a series of magnetized faces insulated from each other, means for magnetizing said faces, means adapted to feed ore to said roller, and an inductively charged cleaner roller composed of a metallic face adapted to be inductively magnetized from the magnetic roller to collect material lifted thereby; substantially as specified.

7. In a device of the class described, a feed hopper, a shaker pan disposed in a horizontal plane beneath the discharge therefrom, means for oscillating said pan transversely of the hopper discharge, a flexible wall at the rear of said discharge, a hanger pivotally supported from the upper portion of said hopper, means for pivoting said pan between its ends to said hanger at the lower end of said hopper, and an arm adjustably secured to the lower end of said hanger and pivoted to the rear of said pan, substantially as specified.

8. In a device of the class described, a magnetic roller comprising a shaft, a series of plates located thereon, conducting cores disposed between said plates, magnetizing windings upon said cores, lateral faces at the peripheries of said plates, a conducting ring communicating with the one end of said windings, a cleaner roller comprising an insulating base, and magnetic metal surfaces thereon disposed in alignment with the faces upon the magnetizing roller; substantially as specified.

9. In an electro-static magnetic separator, a magnetized attractive surface, means for feeding material thereto and discharging therefrom, a source of voltaic current for energizing the same, and a source of static electricity to charge said surface, whereby metallic particles magnetically held by said surface will sustain other particles by reason of difference in potential thereof; substantially as specified.

10. In a device of the class described, a statically charged belt, a magnetic roller disposed above the same, and means for removing metal carried by said roller, substantially as specified.

11. A magnetic separator comprising a magnetically constantly energized surface, and a cleaner rotatable adjacent to said surface and magnetically energized by induction therefrom to remove material from said separator; substantially as specified.

12. In a device of the class described, a travelling conveyor belt and supporting frame, means disposed above the same adapted to raise and convey material therefrom, a driving shaft extending longitudinally of the belt and carrying eccentrics, straps extending from said belt frame to said eccentrics, a spring support for said belt to permit vibration thereof, means for adjusting said belt vertically relative to the raising means above the same, a hopper extending longitudinally beneath said belt, and rollers carried by the upper surface of the said supporting frame; substantially as specified.

13. In a device of the class described, a travelling conveyor belt and supporting frame, means disposed above the same adapted to raise and convey materials therefrom, a driving shaft extending longitudinally of the belt and carrying eccentrics, straps extending from said belt frame to said eccentrics, a spring support for said belt to permit vibration thereof, means for adjusting said belt vertically relative to the raising means above the same, rollers carried by the upper surface of said support, supporting rollers for said belt at opposite ends of said support, a speed regulating device carried by said driving shaft, and gear connections to said speed device to drive the belt rollers; substantially as specified.

14. In an ore separator, an ore supporting surface comprising a body of insulated material, a metallic surface upon one face thereof, means for electrically charging said metallic surface, and a magnetic separator to collect from said surface, substantially as specified.

15. In a device of the class described, a conveying belt, a rotatable magnetic roller above the same, means for magnetically charging said roller, an inductively magnetized cleaner roller adjacent to the magnetic



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