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Note.—Throughout this *Gazette* the names in Italics within parentheses are those of Communicators of Inventions.

Important Notice.

Patent Office, Perth,
10th November, 1903.

NOTICE is hereby given that on and after the 11th November, 1903, cheques will not be received at the Patent Office, Perth, in payment of fees in connection with applications for Patents, Designs, Trade Marks, or Copyrights, unless same have previously been marked "good" by the Bank on which they are drawn.

MALCOLM A. C. FRASER,
Acting Registrar of Patents, Designs,
Trade Marks, and Copyrights.

Complete Specifications.

Patent Office, Perth,
27th November, 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. 4223.—DANIEL WEBSTER BALCH, of 2400 Fillmore Street, in the City and County of San Francisco, State of California, United States of America, Mining Engineer (assignee of Albert Alonzo Honey), "*Improvements in Electro-magnetic Railway Traction.*"—Dated 5th January, 1903.

Claims :—

1. In an electro-magnetic traction increasing apparatus, the combination of wheels and axles, a magnet adjacent to each wheel, a bridge of magnetizable metal connecting the two axles, and conductors by means of which the magnets are connected in the common circuit, so that a plurality of horse-shoe magnets will be formed, each having two coils, substantially as set forth.

2. In an electro-magnetic traction increasing apparatus, the combination of supporting wheels and axles, one or more idle wheels and axles, a magnet mounted upon each axle, a connecting bridge or bridges of magnetizable material, and conductors by means of which the magnets are connected in a common circuit, so that a plurality of horse-shoe magnets will be formed, each having two coils, one of which is that which energizes the idle wheels substantially as set forth.

3. In an electro-magnetic traction increasing apparatus, the combination of main wheels and axles, magnets on the axles, an idler axle carrying idle wheels and magnets, and means for magnetizing all the magnets, substantially as and for the purposes set forth.

4. A railway car supported by wheels and axles adapted to run upon main rails, an idle axle having wheels in line with the supporting wheels of the car, other wheels on said idle axle adapted to make contact with supplementary rails, magnets on the respective axles, and means for energizing said magnets.

5. A railway car supported by wheels and axles, an idle axle having two sets of wheels, one wheel in each set being adapted for contact with the main rails, and the other wheel in each set being adapted for contact with a supplementary rail, a bridge or bridges connecting the main axles with the idle axle, magnets on said axles, and means for energizing said magnets.

Specifications, 16s. Drawings on application.

Application No. 4388.—UNITED SHOE MACHINERY COMPANY, of Paterson, in the State of New Jersey, United of America (assignee of Louis Amédée Casgrain), States "*Improvements in or relating to Nurling or Analogous Machines.*"—Dated 18th April, 1903.

Claims :—

1. In a machine of the class described, the combination of a percussive actuator and a tool or tool-carrier arranged to be moved into operative relation to the actuator by the presentation of the work thereto.

2. In a machine of the class described, the combination of a percussive actuator and a tool or tool-carrier arranged to be moved out of operative relation to the actuator the tool or carrier being controlled as to said movement by the work as the work is removed from it.

3. In a machine of the class described, a percussion tool or a carrier therefor mounted in such manner that gravity or a spring tends always to move it automatically out of the range of a hammering device and that stock presented to it moves it into the range thereof substantially as and for the purpose described.

4. In a machine of the class described, the combination of a smooth-surfaced or a patterned tool moved by the stock or otherwise to roll upon or against the surface of the stock and means which move it percussively for the purpose described.

5. In a nurling or embossing machine, the combination of a nurling or embossing tool moved by the stock or otherwise to roll upon or against the surface of the stock, a stock-support to keep the stock pressed against the tool, and means to effect in rapid succession movements of the tool or of the stock-support or of both the stock-support and tool whereby the stock is subjected to a succession of blows between said support and tool.

6. In a machine of the class described, a carrier having a tool-sustainer, a tool loosely mounted on and also rotatable freely about said sustainer by the action of the stock against said tool, and means to impart to said carrier and tool rapid movements in a direction approximately perpendicular to the surface of the stock acted upon by said tool, for the purpose described.

7. In a machine of the class described, the combination of a tool, and a tool carrier having a tool sustainer encircled by said tool, the tool being free to rotate about the sustainer and to move by a tilting longitudinal movement with relation to said sustainer for the purposes described as the tool is rotated by the stock.

8. In a machine of the class described, a tool sustainer and tool encircling it so formed in relation to each other that their surfaces in contact can tilt one in relation to the other for the purpose specified.

9. In a machine of the class described, the combination of an annular tool interiorly convexed in cross-section, and a tool-sustainer concaved at its under side to constitute a seat for said tool when the tool is in contact with the stock for the purpose specified.

10. In a machine of the class described, the combination of a tool-sustainer shaped at its under side to present a concaved arc, and a surrounding ring-like tool interiorly convex in cross-section, the arc being struck from a centre which is at or below the stock-engaging portion of the external periphery of the tool when the tool is in working position against the under side of the sustainer.

11. The complete machine substantially as described and illustrated in Figures 1, 3, and 6 of the accompanying drawings for the purpose specified.

Specification, 25s. Drawings on application.

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