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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,  
11th December, 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. 4304.—SAMUEL GEORGE DICKSON, of No. 538 Elizabeth Street, Melbourne, in the State of Victoria, Commonwealth of Australia, Pattern-maker, "*Improvements in Machines for manufacturing Horse-shoes.*"—Dated 26th February, 1903.

### Claims:—

1. In a machine for the purpose specified the swaging and fullering rolls consisting of a flanged coned or tapered roll *B* provided with fillet *b*<sup>3</sup> and flange *b*<sup>7</sup> combined with a ring *B*<sup>1</sup> having an oval exterior surface furnished with recess and nail hole projections and secured on a suitable head piece, substantially as described and shown.
2. In a machine for the purpose specified the swaging and fullering rolls consisting of the parts marked *B*, *b*<sup>3</sup>, *b*<sup>7</sup> and *B*<sup>1</sup>, *b*<sup>5</sup> and *b*<sup>9</sup> combined with the spur gears *b*<sup>1</sup> and *b*<sup>2</sup>, the spindles *B*<sup>3</sup> and *b*<sup>6</sup>, and the pivotted arm *B*<sup>2</sup> which is capable of being secured to the frame *A* by bolts as *b*<sup>4</sup>, substantially as described and shown.
3. In a machine for the purpose specified a flanged coned or tapered pressure roll as *B* formed with a fillet as *b*<sup>3</sup> and supported in a pivotted arm as *B*<sup>2</sup> which is capable of being secured at the requisite position by bolts such as *b*<sup>4</sup> substantially as described and shown.
4. In a machine for the purposes specified a fullering roll composed of an oval-shaped ring as *B*<sup>1</sup> furnished with fullering and nail recess forming projections as *b*<sup>10</sup> secured upon a suitable head piece substantially as described and shown.
5. In a machine for the purpose specified a rotary-horse-shoe former die as *D*, combined with a horizontal roll as *D*<sup>1</sup> and a vertical roll as *D*<sup>2</sup> and with a weighted pivotted arm as *D*<sup>3</sup> substantially as described and shown.
6. In a machine for the purpose specified a kick-off device composed of an eye ended lever *E*, having tappet *e* and centred at *e*<sup>1</sup>, spring *e*<sup>2</sup>, spur gear *F*, *F*<sup>1</sup>, the former provided with groove *f* and tappets *f*<sup>1</sup> and with the die *D* provided with spring pins *d*<sup>1</sup>, substantially as described and shown.
7. In a machine for the purpose specified a weighted arm as *D*<sup>3</sup> carrying rolls as *D*<sup>1</sup> and *D*<sup>2</sup> centred on an adjustable eccentric spindle as *D*<sup>4</sup> substantially as described and shown.
8. In a machine for the purpose specified in combination a weighted arm as *D*<sup>3</sup> carrying rolls *D*<sup>1</sup> and *D*<sup>2</sup>, eccentric spindle *D*<sup>4</sup>, distance bolt *d*<sup>3</sup>, arm *D*<sup>5</sup>, carrying anti-friction roller *d*<sup>5</sup> and the frame *A* substantially as described and shown.
9. In a machine for the purpose specified a feed race or guide provided with a pusher plate as *a*<sup>3</sup> attached to carriage *a*<sup>1</sup> controlled by a lever as *a*<sup>5</sup> and rod as *A*<sup>5</sup>, operated from such as a crank pin or eccentric on the machine, substantially as described and shown.

10. A machine for the purpose specified consisting of the swaging and fullering rolls as *B*, *B*<sup>1</sup>, the shoe bending rolls or dies as *D*, *D*<sup>1</sup> and *D*<sup>2</sup>, the pivotted arm *B*<sup>2</sup>, the eccentrically pivotted weighted lever *D*<sup>3</sup>, the feed race *A*<sup>3</sup>, force plate *a*<sup>3</sup>, carriage *d*<sup>1</sup> and its operating levers *A*<sup>5</sup>, *a*<sup>5</sup>, crank *A*<sup>6</sup> and the gearing and appurtenant parts, all assembled and arranged on and about a frame or head piece as *A*, substantially as described and shown.

### Specification 10s.

Application No. 4313.—HENRY AGAR, of East Devonport, in the State of Tasmania, Inventor—"*Improved height-adjusting, anti-rattling Window attachments.*"—Dated 3rd March, 1903.

### Claims:—

1. In window attachments a barrel or wheel arranged to be pressed as indicated against a stile and containing a coiled spring adapted to be compressed in opening or letting down the window, and to uncoil in raising it, in combination with a ratchet wheel and pawl substantially as illustrated for the purposes set forth.
2. In window attachments the combination of the hereinbefore described parts C to N.
3. In window attachments the combination of the hereinbefore described parts E to O.
4. In window attachments the combination of the hereinbefore described parts C to P.
5. In window attachments the combination of the hereinbefore described parts B to Q.

### Specification, 4s. Drawings on application.

Application No. 4335.—ROBERT MCKNIGHT, 2837 Bon-dinot Street, City of Philadelphia, State of Pennsylvania, United States of America, Metallurgist, "*Improvements in Electro-Magnetic Separators.*"—Dated 25th March, 1903.

### Claims:—

1. In an electro-magnetic separator, in combination an ore receiving apron having a long inclined upwardly travelling surface, and a series of electro-magnets situated and movable relatively to said apron as described.
2. In an electro-magnetic separator, in combination, an apron (for receiving ore or the like at its head) having an upward travel as aforesaid, a series of electro-magnets situated and movable relatively to said apron as aforesaid, and having poles of different polarity presented towards the apron, and means for regulating the feed and movement of material relatively to the apron as described.
3. In an electro-magnetic separator, the combination of a movable apron and series of electro-magnets, a feed hopper with gate or the like, water or air jet (or both) tubes, means to make the apron and belt diverge after ascending an incline, and means to remove adhering ore from the apron all as described.
4. In an electro-magnetic separator, the combination with an apron (or partly of) iron slats or suitable metal movable up a long incline or the like and of an electro-magnet carrying belt movable simultaneously with the apron as set forth, means for feeding material to be separated near the top of the inclined surface, and means for separating from the apron material carried up said incline as described.
5. In an electro-magnetic separator, the combination with a movable slat belt of the parts hereinbefore described relatively to Figures 3 and 4.
6. In an electro-magnetic separator, the combination with a movable apron of a slat belt having magnetic terminals, and contact pieces adapted to make and break contact from slat to slat during their motion as described.
7. In an electro-magnetic separator, a movable apron and a movable belt partly diverging therefrom and arranged as described relatively to Figures 8 and 9.



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Applications for the Grant of Letters Patent