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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,
Perth, 8th January, 1904.*

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. 4611.—WILLIAM GEORGE MANNERS, of Boulder Road, Kalgoorlie, in the State of Western Australia, Patent Agent and Engineer (*James R. Harrison*), "*An improved cast metal mixture*."—Dated 19th September, 1903.

Claims:—

1. In an improved cast metal mixture for use in stamper battery shoes and dies, grinding pan, ball mill, flint mill liners and the like, a metal composition in about equal proportions of soft scrap cast iron, old steel wire ropes and hard scrap cast iron, melted together in a cupola and moulded or cast into the shape required as described herein.
2. In an improved cast metal mixture for use in stamper battery shoes and dies, grinding pan, ball mill, flint mill liners and the like, a metal composition of soft scrap cast iron, old steel wire ropes and hematite iron melted together in a cupola and moulded or cast into the shape required, thereby obtaining a similar quality of cast metal as specified in Claim 1 as described herein.
3. In an improved cast metal mixture for use in stamper battery shoes and dies, grinding pan, ball mill, flint mill liners and the like, a metal composition in about equal proportions of soft scrap cast iron, old steel truck wheels and hard scrap cast iron, melted together in a cupola and moulded or cast into the shape required, thereby obtaining a similar quality of cast metal as specified in Claims 1 and 2, as described herein.

Specification, 2s.

Application No. 4746.—AMERICAN ZINC EXTRACTION COMPANY, of No. 404 New England Building, Kansas City, County of Jackson, State of Missouri, United States of America (assignee of Lewis Augustus Dunham), "*Magnetic Separator*."—Dated 22nd December, 1903.

Claims:—

1. In a magnetic separator, the combination with a magnet, of a carrier provided with highly permeable transverse projections, and means for moving said carrier between pole pieces of said magnet and diagonally with respect to a line joining the magnetic centres of the pole pieces.
2. In a magnetic separator, the combination with a magnet, of a carrier provided with highly permeable transverse projections, and means for moving said carrier around a pole piece of said magnet between said pole piece and a pole piece of opposite polarity and diagonally with respect to a line joining the magnetic centres of the pole pieces.

3. In a magnetic separator, the combination with a magnet, of a carrier provided with highly permeable projections, and means for moving said carrier between pole pieces of said magnet and diagonally with respect to a line joining the magnetic centres of the pole pieces, said pole pieces being formed to permit the free fall of material not attracted.

4. In a magnetic separator, the combination with means for producing magnetic effects between pole pieces, of means for causing a convergence in said flux, and means for moving said convergence between said pole pieces, and diagonally with respect to a line joining the magnetic centres of said pole pieces.

5. In a magnetic separator, the combination of means for producing a magnetic flux between pole pieces, of a carrier provided with means for causing a convergence in said flux, and means for moving said carrier and said convergence between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces.

6. In a magnetic separator, the combination with means for producing a magnetic flux between pole pieces, of means for causing a convergence in said flux, and means for moving said convergence between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces, said pole pieces being formed to permit the free fall of material not attracted.

7. In a magnetic separator, the combination with means for producing a magnetic flux between pole pieces, of a carrier provided with means for causing a convergence in said flux, and means for moving said carrier between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces, said pole pieces being formed to permit the free fall of material not attracted.

8. In a magnetic separator, the combination with means for producing a magnetic flux between pole pieces, of means for causing a local convergence in said flux, and means for moving said convergence between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces.

9. In a magnetic separator, the combination with means for producing a magnetic flux between pole pieces, of a carrier provided with means for causing a local convergence in said flux, and means for moving said carrier and said convergence between said pole pieces and diagonally with respect to a line adjoining the magnetic centres of the pole pieces.

10. In a magnetic separator, the combination with means for producing a magnetic flux between pole pieces, of means for causing a local convergence in said flux, and means for moving said convergence between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces, said pole pieces being formed to permit the free fall of material not attracted.

11. In a magnetic separator, the combination with means for producing a magnetic flux between the pole pieces, of a carrier provided with means for causing a local convergence in said flux, and means for moving said carrier between said pole pieces and diagonally with respect to a line joining the magnetic centres of the pole pieces, said pole pieces being formed to permit the free fall of material not attracted.

Specification, 13s. Drawings on application.

Application No. 4752.—GEORGE NELSON, of Clyde Road, Napier, in the Provincial District of Wellington, New Zealand, Engineer, "*Improvements in Refrigerating Machinery*."—Dated 29th December, 1903.

Claims:—

1. For the purpose indicated in combination a compressor, a condenser in which vapour from the compressor is condensed into liquid, an evaporator in which said liquid is evaporated and a vessel arranged between said condenser and evaporator, a float within said vessel and a valve operated by said float controlling the inflow of fluid from the condenser to the vessel substantially as herein specified and illustrated.
2. For the purpose indicated in combination a compressor, a condenser in which vapour from the compressor is condensed into liquid, an evaporator in which said liquid is evaporated and a vessel arranged



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Trade Marks