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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,
8th August, 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 3931.—THOMAS DANIELLS MERTON, of the Spottiswoode Refinery and Metallurgical Works, Spottiswoode, near Melbourne, in the State of Victoria, and Commonwealth of Australia, Metallurgist, "*Improved Rotary Rabbling Apparatus for Ore Roasters.*"—Dated 8th July, 1902.

Claims:—

1. Improved rotary rabbling apparatus for ore roasters consisting of a rotatable spindle having a boss carrying on its shoulder a coating of refractory material around a portion of the spindle, the rabbles being fitted directly to said boss and the bottom having an annular recess into which projects an upwardly extending collar substantially as and for the purposes specified and as illustrated in the drawings.

2. In rotary rabbling apparatus for ore roasters, a spindle formed with a boss upon the shoulder of which is an iron cylinder surrounding a portion of said spindle, the space between being rammed tight with refractory material, such as a mixture of fireclay and silicate of soda substantially as and for the purpose specified and as illustrated in the drawings.

3. In rotary rabbling apparatus for ore roasters a spindle having a boss thereon formed with two passages one above the other, and adapted to receive a notched retaining-bar and rabble respectively, said bar and rabble being connected by a hooked bar, substantially as and for the purposes specified and as illustrated in the drawings.

Specification, 4s. Drawings on application.

Application No. 3932.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, in the State of Victoria, Patent Agent (*Thomas Hammill Hicks*), "*Improvements in apparatus for Separating Mercury and Amalgam from Ore Pulp.*"—Dated 8th July, 1902.

Claims:—

1. A horizontal annular pan adapted to contain a flowable body of mercury over its entire bottom and mounted to oscillate about its vertical centre; an agitator arranged therein; and means to rotatively oscillate said pan.

2. An annular pan adapted to contain a flowable body of mercury over its entire bottom and afford passage for flowable bodies over the same and mounted to oscillate about its vertical centre; an amalgamable lining arranged on the bottom of said pan; an agitator arranged therein; and means to rotatively oscillate the same.

3. A horizontal annular pan adapted to contain a flowable body of mercury over its entire bottom and afford passage for flowable bodies over the same and mounted to oscillate about its vertical centre; an annular agitator mounted on said pan and having pins depending therein; and means to rotatively oscillate said pan.

4. An annular pan adapted to contain a flowable body of mercury over its entire bottom and afford passage for flowable bodies over the same; a trap arranged in connection with the pan to draw off automatically surplus mercury therefrom; and means to rotatively oscillate said pan.

5. A vertical series of annular pans, each having an amalgamable lining on its bottom and adapted to contain a flowable body of mercury over said entire lining and afford passage for flowable bodies over the same; and means to rotatively oscillate said series.

6. A vertical series of annular pans, each adapted to contain a flowable body of mercury over its entire bottom and afford passage for fluid bodies over the same and fitted to discharge such fluid bodies into the next below; an agitator arranged in each pan; and means to rotatively oscillate said series.

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

Application No. 3933.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, in the State of Victoria, Patent Agent (*Thomas Hammill Hicks*), "*Improvements in processes for Recovering Gold from Refractory Ores in the form of Amalgam.*"—Dated 8th July, 1902.

Claims:—

1. The process of recovering gold as amalgam from pulverised sulphides (commonly called concentrates) which consists in subjecting such sulphides when dry to the action of heat and of hot mercury vapour as shown in the foregoing specification and then collecting the freed gold whether in particles of amalgam or not by any effective liquid mercury amalgamating or mercury massing apparatus.

2. The process of recovering gold as amalgam from pulverised sulphides (commonly called concentrates) which consists in subjecting such sulphides when dry to the action of heat and to the action of hot mercury vapour while their resultant temperature is between 350° Fahrenheit and the boiling point of mercury and then collecting the thereby freed gold and amalgam therein contained by means of apparatus suitable for massing finely divided mercury and amalgam or for liquid mercury amalgamation.

3. The process of recovering gold as amalgam from pulverised refractory ores which consists in first collecting the free gold therein contained by liquid mercury amalgamation, and then subjecting, when dry, that part of the residue of such ore containing gold after separating therefrom as much of the barren ore-gangue as practicable, to the action of heat and to the action of hot mercury vapour while the resultant temperature thereof is between 350° Fahrenheit and the boiling point of mercury and then collecting the thereby freed gold and amalgam therein contained by any apparatus suitable for liquid mercury amalgamation or for the massing of fine particles of mercury and amalgam.

Specification, 17s. Drawings on application.

Application No. 3934.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, in the State of Victoria, Patent Agent (*Thomas Hammill Hicks*), "*Improvements in Apparatus for Separating Mercury from Amalgam.*"—Dated 8th July, 1901.

Claims:—

1. In a rotatable vessel, a cylindrical chamber and an annular chamber, each adapted to contain mercury and both arranged concentrically to the axis of said vessel's revolution and connected only by one or more joints so closely fitted as to prevent the passage of mercury there through except under pressure.

2. A rotatable vessel having two concentric chambers connected only by one or more joints so closely fitted as to prevent the passage of mercury except under pressure; and an annular dam at the top of each chamber extending from its outer wall inward.

3. In a rotatable vessel, two concentric chambers 10 and 11 connected only by one or more joints so closely fitted as to prevent the passage of mercury except under pressure, in combination with openings 12 for escape of water.

Specification, 7s. Drawings on application.



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Applications for the Grant of Letters Patent