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CONTENTS:

SUBJECT.	PAGE	SUBJECT.	PAGE
Complete Specifications accepted	3769	Renewal Fees paid, Patents	3775
Applications for Patents	3773	Subsequent Proprietors registered, Patents	3775
Alphabetical list of Applicants for Patents	3774	Applications for Registration of Trade Marks	3775
Alphabetical list of Inventions for which Patents have been applied for	3774	Renewal Fees paid, Trade Marks	3782
		Subsequent Proprietors registered, Trade Marks	3782

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

Complete Specifications.

Patent Office, Perth,
5th September, 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 No. 4002.—EDWARD WATERS, jun., a member of the firm of Edward Waters & Son, Patent Agents of Nos. 414 to 418 Collins Street, Melbourne, in the State of Victoria, Commonwealth of Australia (*George Gatton Melhuish Hardingham*), "*Improved means applicable for use in the separation of Volatile from Non-volatile Metals, Metalloids, and other Metalliferous Substances.*"—Dated 18th August, 1902.

Claims:—

1. In the treatment of ores and other metalliferous compounds for the separation of volatile from non-volatile metals, metalloids, and the like, the herein described process consisting in mixing the metalliferous compound with coke, coal, sulphur, sulphides or other suitable reducing agent, heating the mixture to a temperature at which reaction takes place, transferring the mixture to a converter and then forcing air, steam or other suitable oxidising agent through the mass, with the effect that the metals previously oxidised are reduced, those of a volatile character are driven off, whilst those of a comparatively non-volatile character remain in the converter, substantially as set forth.

2. In the treatment of ores and other metalliferous compounds for the separation of the volatile from the non-volatile metals, metalloids, and the like, the herein described modification of the process referred to in the preceding claiming clause whereby the preliminary heating in a separate vessel of the metalliferous compound mixed with coke or other suitable reducing agent is dispensed with and the oxidising, reducing and volatilising operations carried out in the converter, substantially as set forth.

Specification, 4s. Drawings on application.

Application No. 4004.—ANDREW LAMBERTON, of Sunnyside Engine Works, Coatbridge, Lanarkshire, Scotland, Engineer, "*Improvements in and relating to Crushing and Amalgamating Machinery.*"—Dated 18th August, 1902.

Claims:—

1. A crushing and amalgamating machine having its parts arranged and combined substantially as herein described in reference to and shown in the accompanying drawings.

2. A crushing and amalgamating machine comprising a ball mill in which the lower ring bed is formed of larger diameter than the upper rotating track, a casing enclosing same in which are fitted a series of portable amalgamating plates, and access doors to interior of casing substantially as herein described in reference to and shown in the accompanying drawings.

3. In crushing or grinding machinery, the forming of an annular cavity in the shaft, and a gland having an inclined face leading the oil from cavity through a channel to the outside of the casing, so as to exclude the oil from the interior of the mill, substantially as herein described in reference to and shown in the accompanying drawings.

4. In crushing or grinding mills, the means for raising the upper rotating driving discs, consisting of screw threaded spindles passed through the top cover of mill and temporarily attached to driving disc by means of cotters, and operated in the manner herein described in reference to and shown in the accompanying drawings.

5. In crushing or grinding mills, the ore feeding mechanism, consisting of a hopper, a shaking shoot, and lever and connecting mechanism, substantially as herein described in reference to and shown in the accompanying drawings.

Specification, 8s. 6d. Drawings on application.

R. G. FERGUSON,
Registrar of Patents.

Patent Office, Perth,
29th 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.

For particulars of claims, vide *Gazette No. 35, August 29th, 1902.*

Application No. 3649.—WILLIAM THOMAS RILEY, of Victoria Place, off George Street, Sydney, in the State of New South Wales and Commonwealth of Australia, Furniture Manufacturer, "*Improvements in woven wire mattresses and related structures.*"—Dated 19th November, 1901.

Specification, 5s. 6d. Drawings on application.

Application No. 3817.—GEORGE JAMES KINGSBURY, of Coolgardie, Western Australia, Plumber, "*Auto-Gas Extinguishing Attachment, principally for Acetylene Generators, and improvements connected therewith.*"—Dated 10th April, 1902.

Specification, 6s. Drawings on application.

Application No. 3985.—CHARLES BUTTERS, of Threadneedle House, 28 Bishopsgate Street Within, London, England, Metallurgist, "*Improvements in precipitating Metals from Solutions.*"—Dated 8th August, 1902.

Specification, 4s. 6d. Drawings on application.

Application No. 3986.—ALLISON DALRYMPLE SMITH, of 14 Hartington Gardens, Edinburgh, Scotland, Engineer, "*Improvements in automatic Buffer Couplers and in draw-gear connected therewith.*"—Dated 8th August, 1902.

Specification, 20s. Drawings on application.



Government Gazette

PERTH, FRIDAY, 5 SEPTEMBER 1902 No. 59a

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CONTENTS

Applications for the Grant of Letters Patent