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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,
27th March, 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. 4235.—HYAM NATHAN and RUPERT RHODES, of Coolgardie, Western Australia, Metallurgical Chemists and Assayers, "*Process for the extraction of gold from Sulphides or other refractory ores.*"—Dated 10th January, 1903.

Claims:—

1. The perchloration process of extraction of gold from refractory ores consisting in subjecting such ores when in a finely divided state to a bath consisting of a solution of bleaching powder cyanide of potassium and water and of the proportions substantially as above specified and set forth.

2. The perchloration process of the extraction of gold from refractory ores consisting in subjecting such ores when in a finely divided state to a bath consisting of a solution of bleaching powder cyanide of potassium and water of approved strength to suit and be proportioned to the different ores under treatment substantially as above specified and set forth.

Specification, 4s. 6d.

Application No. 4284.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patent Agent (*George Westinghouse*), "*Improvements in combined Spring and Frictional Resistance Devices.*"—Dated 16th February, 1903.

Claims:—

1. A resistance device consisting of a spring having a plurality of continuous turns and a friction ring, one or more frictional faces being provided on the spring which engage with a corresponding face or faces on the ring for the purpose of producing frictional resistance when the spring is compressed.

2. The modification of the invention in which two friction rings are provided, one located inside the spring and the other outside and surrounding the same, each ring having one or more frictional faces adapted to engage with corresponding frictional faces on the spring.

3. The modification of the invention in which the friction ring is composed of a number of segments held in engagement with the spring by means of a resilient supporting tube or casing.

4. Frictional resistance devices constructed and operating substantially as described with reference to any of the forms shown in the accompanying drawings.

Specification, 5s. Drawings on application.

Application No. 4285.—FRANCIS HUGH SNOW, of National Mutual Buildings, King William Street, Adelaide, in the State of South Australia, in the Commonwealth of Australia, Licensed Patent Agent (*Thomas Henry Bradbury*), "*Improvements in Rock-drills and in apparatus for forging and sharpening the same.*"—Dated 17th February, 1903.

Claims:—

1. Rock-boring and similar drills having a plurality of radial wings, each of which is thickest just above the chisel-point and tapers towards the shank, constructed substantially as and for the purpose hereinbefore described with reference to Figures 3 and 4 of the accompanying drawings.

2. Apparatus for forging and sharpening rock-boring and similar drills, comprising two power hammers arranged to work on the drill at right angles one to the other, a forging tool and its counterpart constructed for forging drills of two sizes and for holding the drills or blanks while being sharpened or jumped up, and a separate sharpening or jumping tool, all constructed and operated substantially as hereinbefore described.

3. In apparatus for forging and sharpening rock-boring and similar drills, the combination of a fixed forging and holding tool and its reciprocable counterpart, with a gripping device, and a jumping up or sharpening tool reciprocable at right angles to the reciprocating counterpart forging tool, substantially as hereinbefore described.

4. In apparatus for forging and sharpening rock-boring and similar drills, a fixed forging and holding tool and its reciprocable counterpart constructed with two forging dies and between them a holding die, substantially as hereinbefore described.

5. In apparatus for forging and sharpening rock-boring and similar drills, a fixed forging and holding tool and its reciprocable counterpart constructed with two forging dies, and between them a holding die, in combination with a gripping device for the drill when in the holding die, substantially as hereinbefore described.

6. The apparatus for forging and sharpening rock-boring and similar drills, constructed and operated substantially as hereinbefore described with reference to the accompanying drawings.

Specification, 12s. 6d. Drawings on application.

Application No. 4290.—FRANK COTTON, of Hornsby, in the State of New South Wales, Gentleman, "*An improved apparatus for the utilization of Carbonaceous liquids as Fuel.*"—Dated 17th February, 1903.

Claim:—

An improved apparatus for the utilisation of carbonaceous liquids as fuel characterised by the combination of a receiving chamber, and vaporising retort having an internal mixing chamber communicating with both by means of perforations; a nozzle in the said vaporising retort, for the discharge of the gases produced; and the necessary steam and oil supply pipes, so arranged that the steam is superheated and the oil heated prior to introducing into the receiving chamber, as and for the purpose described and substantially as illuminated in the drawings.

Specification, 5s. Drawings on application.

Application No. 4291.—JAMES EBENEZER TONKIN, of Missenden Road, Camperdown, Sydney, in the State of New South Wales, Mining Agent; WILLIAM AMES, of West Street, North Sydney, in the State aforesaid, Engineer, and WILLIAM EUGENE HORT NICOLLE, of Becroft, near Sydney, in the State aforesaid, Engineer.—Dated 17th February, 1903.

Claims:—

1. A locking device adapted to secure the fastenings of railway or tramway rails, consisting of a suspended clamping plate held in position by the fish-plate bolts, the nuts of which are secured by a lock plate supported and engaged at the ends in the manner shown, and for the purposes set forth.

2. In the means employed for securing the fastenings of railway or tramway rails, the combination of a removable lock plate with a fish plate adapted to retain the said lock plate in its position, as and for the purposes set forth.

3. In the construction of gapped lock plates, the arrangement of an outward extended portion adapted to be retained by a similar device associated with the folded ends, in which the said lock plate is retained, as in Figure 3.



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Applications for the Grant of Letters Patent