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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 April, 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. 3398.—FRANK PRATT, of 153 Wellington Parade, Jolimont, near Melbourne, Victoria, and WILLIAM DUFF, of Rathdown Street, Carlton, near Melbourne aforesaid, Engineers, "*An improved direct-acting Steam Engine.*"—Dated 21st May, 1901.

Claims:—

1. An improved direct-acting engine having a single cylinder fitted with a high-pressure piston and a low-pressure piston operating at opposite ends of said cylinder and connected up to respective cranks set at an angle to each other on a common crank shaft, substantially as described and as illustrated in the drawings.
2. In a direct-acting engine as specified in Claim 1 a rocking shaft (as *q*) having lever arms (as *o*) to which side connecting rods *l* are attached and a fork (as *p*) to which connecting rod *r* of high pressure piston is attached substantially as described and illustrated in Figures 3 and 4 of the drawings.

Specification, 4s. Drawings on application.

Application No. 3449.—EDWIN ANSON SPERRY, Mining Engineer, of Biwabik, Minnesota, United States of America, "*Improvements in Concentrators.*"—Dated 3rd July, 1901.

Claims:—

1. In a concentrator, the intermediate frame and the upper frame, a shaft having an eccentric on which the upper frame is mounted, and the table rotating with the upper frame, substantially as specified.
2. In a concentrator, the spring connections between the intermediate and upper frames, and the means for holding the frames in parallelism, substantially as specified.
3. In a concentrator, the rotating and vanning frame, the circular supporting bar on the frame and the table supported by and slidable on the bar, substantially as specified.
4. In a concentrator, a table, a lifting-rod, a disk on the rod engaging with the under side of the table near the centre, a roller carried by the rod, the inclined plate for engaging with the roller, and the screw-rod for adjusting the plate, substantially as specified.

Specification, 7s. Drawings on application.

Application No. 3661.—WILLIAM PAYNE, Assayer, and PERCY DEAN BRAY, Medical Practitioner, both of Orange, New South Wales, "*An improved method of, and apparatus for, the Extraction of Copper from cupriferous slimes and tailings.*"—Dated 29th November, 1901.

Claims:—

1. In an improved method of extracting copper from cupriferous tailings and slimes the use of a leaching solution raised to a high temperature, and consisting of ferrous chloride, sodium chloride, and water, in the proportion substantially as herein set forth.
2. In an improved method of extracting copper from cupriferous tailings and slimes the mechanical agitation and chemical oxidation of the mass to be treated by forcing therethrough a jet or current of atmospheric air or oxygen gas, substantially as described herein.

3. An improved method of extracting copper from cupriferous tailings and slimes consisting of the repeated leaching of the same with a solution composed of ferrous chloride, sodium chloride, and water, in the proportions substantially as herein set forth, the said solution having been previously raised to a high temperature (say boiling point). And the subsequent introduction into the mass to be treated of a current of atmospheric air or oxygen gas, the same to be either previously heated, or accompanied by a jet of steam so that the temperature of the entire mass may be maintained at or near boiling point during the whole process.

Specification, 5s.

Application No. 3743.—CLAUDE ALBERT HAROLD ANDERSON, of Kalgoorlie, Carpenter, "*An automatic Appliance for preventing Dust entering a house or apartment.*"—Dated 12th February, 1902.

Claim:—

- An attachment to doors consisting of the butt A shaft B spring C guides S D and screw L in combination with a door and its attachments substantially as described and shown in the drawings for the purpose of preventing dust entering into a house or apartment by closing the crevice between the bottom of the door and the floor line.

Specification, 3s. Drawings on application.

Application No. 3785.—RICHARD SPARROW, of Perth, Western Australia, Patent Agent (*Benjamin Garver Lanme*), "*Improvements in Dynamo Electric Generators.*"—Dated 6th March, 1902.

Claims:—

1. For an electrical machine a rotatable member having an insulated winding completely embedded in the core both at the ends and sides thereof for the purpose specified.
2. For an electrical machine a rotatable member constructed substantially as described and shown in the accompanying drawings.

Specification, 4s. Drawings on application.

Application No. 3766.—RICHARD SPARROW, of Perth, Western Australia, Patent Agent (*Benjamin Garver Lanme*), "*Improvements in Systems of Electrical Distribution.*"—Dated 6th March, 1902.

Claims:—

1. The method of starting rotary transformers which consists in first supplying to the armature winding through a resistance, a direct current electro-motive force of more than half but less than the full normal rotary transformer voltage and then supplying such voltage to the armature winding through said resistance and a transformer.
2. In a system of electrical distribution by rotary transformers, the arrangements for starting said transformers and bringing them to synchronous speed substantially as described.

Specification, 5s. Drawings on applications.

Application No. 3767.—ARTHUR STEPHEN PLEWS, of 2 Basinghall Avenue, London, England, Smelter, "*Process for the manufacture direct from the Ore of White Oxide of Antimony and Compounds thereof.*"—Dated 6th March, 1902.

Claims:—

1. The process for producing merchantable white oxide of antimony direct from the ore, which comprises the following steps:—
 - (a.) Roasting the crushed ore with smokeless fuel in a quick draught at a bright red heat.
 - (b.) Periodically changing the flame from an oxidising to a reducing flame and vice versa as long as antimony fumes continue to be evolved.
 - (c.) Subjecting the antimony fumes to the action of steam escaping under pressure.
 - (d.) Collecting the mingled combustion products and steam in condensing chambers having means for absorbing any traces of antimony from the exit gases.



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