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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,  
30th May, 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. 3832.—SHERARD COWPER-COLES & Co., LIMITED, of 82 Victoria Street, Westminster, London, England, Manufacturers (Assignee of SHERARD COWPER-COLES), "*Improvements in or relating to the Deposition of Metals or Compounds.*"—Dated 19th April, 1902.

#### Claims:—

1. The process of depositing zinc on metals, which process consists in packing the metal to be coated in or covering it with "zinc dust" or powdered zinc partially oxidised, with or without the addition of carbon, and in submitting the same to heat, substantially as described.
2. Coating metals with zinc by packing the metal to be coated in or covering it with "zinc dust" or powdered zinc partially oxidised, with or without carbon, and heating the same in a closed vessel, substantially as described.
3. The process of depositing zinc on metals, which process consists in inserting the metal to be coated in a vessel containing "zinc dust" or powdered zinc partially oxidised, with or without the addition of carbon, and in submitting the same to heat, and at the same time agitating, rocking, or rolling the vessel to insure intimate contact of "zinc dust" with the article, substantially as described.

Specification, 9s. Drawings on application.

Application No. 3835.—ALBERT KRANK, of Warkaus Jorois, Finland, Engineer, "*Improvements in or connected with Steam Turbines, and Mechanism or Apparatus connected therewith, for directly converting the energy thereof into fluid pressure.*"—Dated 22nd April, 1902.

#### Claims:—

1. Mounting a steam turbine wheel, and a rotary pump disc upon one and the same rigid shaft, all enclosed within a single internally-divided casing, the said shaft being carried in automatically adjustable bearings at each end only, the said bearings being supported by the said casing, and means for preventing intercommunication between the chambers, while permitting of the shaft having lateral motions parallel with its axis, substantially as set forth.
2. Mounting a steam turbine wheel, and a rotary pump disc upon one and the same rigid shaft, all enclosed within a single casing, constructing internal divisions in the casing to form separate chambers for the steam turbine wheel and for the rotary pump disc, the shaft passing through the partitions so as to be free to have lateral motions, bearings carried by the casing to receive each end of the shaft, such bearings being capable of lateral motions parallel with the axis of the shaft against the action of springs, and means for preventing intercommunication between the several chambers within the casing, while permitting of the shaft having lateral motions parallel with its axis, substantially as described.
3. The arrangement wherein a steam turbine wheel and a rotary pump disc is mounted upon the same rigid shaft, enclosed within a single casing, internal divisions in the casing to form separate cham-

bers for the turbine wheel and for the pump disc, bearings for the shaft carried upon the casing and capable of receiving resiliently controlled lateral motions, free passages through the divisions of the casing to allow of the passage of the shaft, and for lateral adjustment motions of the latter, radial ribs on one surface of the pump disc, located adjacent to the division between the pump and the turbine chambers, acting to produce an over-balance of pressure, and prevent intercommunication between the steam and water chambers, while at the same time permitting the shaft to have free lateral motions and a similarly acting vane disc to prevent escape of steam to the bearing chamber or beyond the steam chamber, substantially as described.

4. The combination with an enclosing casing, a rotary shaft in the interior of the casing, bearing boxes located and supported within the casing to receive the ends of the shaft, means for holding the bearing boxes and permitting them to have motions in directions parallel with the axis of the shaft, spring actuated devices for normally maintaining the bearing boxes coincident with the axis of the casing, a steam jet turbine wheel fixed on the rotary shaft, a chamber in the casing in which chamber the turbine wheel is located, steam nozzles to deliver steam to the vanes of the turbine wheel, and a steam exhaust aperture from the said chamber; of a second chamber within the casing through which also the turbine shaft passes, a dividing wall between the chambers, a disc fixed on the shaft adjacent to the dividing wall, centrifugal pump vanes formed on one side of the disc, and a fluid supply pipe to the pump through which fluid is pumped into the second chamber and maintained at a pressure therein, an exit pipe from the second chamber for the delivery of the pressure fluid for use, radial ribs formed on the side of the pump disc which is in contact with the dividing wall of the chambers, the ribs being calculated to act with greater force than the pump vanes on the other side of the disc to produce an over-balance of pressure and prevent intercommunication of fluids between the first and second chambers, while the aperture in the dividing partitions through which the shaft passes is greater than the diameter of the shaft so as to permit the shaft to be self-centering, substantially as set forth.

5. The arrangement and combination of parts, whereby packed glands may be dispensed with and intercommunication between the several chambers, contained in the casing is prevented, while the rotating shaft extending through the chamber divisions is permitted to have resiliently controlled lateral motions of adjustment parallel to its axis, substantially as described.

6. The arrangement whereby the bearings of the turbine shaft are subjected to liquid lubrication substantially as described with reference to Figure 1 of the accompanying drawings.

7. The arrangement and construction of the improved apparatus all combined and acting substantially as and for the purposes described and illustrated with reference to the accompanying drawings.

Specification, 12s. Drawings on application.

Application No. 3836.—FRANCIS JAMES ODLING, of No. 2 Prince's Walk, Prince's Bridge, Melbourne, in the State of Victoria, Commonwealth of Australia, Mining Engineer, and WILLIAM JAMIESON, of Broken Hill Chambers, No. 31 Queen Street, Melbourne, in Victoria, as aforesaid, Gentleman, "*An improved Magnetic Separator for Pulverised Ores and other Materials.*"—Dated 22nd April, 1902.

#### Claims:—

1. In an apparatus for the purpose specified pole-pieces of V shaped section as C<sup>2</sup> arranged vertically on either side in order to allow the magnetic field at both sides of the pole points to be utilised substantially as described and shown.
2. In an apparatus for the purpose specified a sliding shield as D arranged to work upon one or both of the pole pieces C<sup>2</sup> as and for the purposes described and substantially as shown.
3. In an apparatus for the purpose specified the combination of a vibratory feed table as E, with a sliding shield as D and pole pieces as C<sup>2</sup> substantially as described and shown.
4. In an apparatus for the purpose specified a feed table as E centred on adjustable pivots and carrying weighted pulley as E<sup>1</sup> to which motion is imparted as and for the purpose described and substantially as shown.



# Government Gazette

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Applications for the Grant of Letters Patent