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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,  
22nd May, 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. 4115.—RICHARD ERNEST PENNINGTON, Engineer, and JAMES BELLETT, Stationer, both of 227 Bridport Street, Albert Park, near Melbourne, Victoria, Australia, "*An improved Locknut Plate for preventing nuts loosening or turning back on fishplates and the like.*"—Dated 11th November, 1902.

#### Claims:—

1. A nut locking plate formed with holes or recesses to fit over the nuts to be secured in combination with clips secured by the bolts of said nuts and placed in engagement with said plates, substantially as and for the purposes specified.
2. A nut locking plate (as A) bearing upon the flanges of the rails, engaging the nuts on the fish bolts, and secured by clips at each end, substantially as and for the purposes specified.
3. A nut locking plate fitting between the lower flats of the nuts and the lower flanges of the rails in combination with clips pivoted upon the fish bolts secured in position by the nuts, and bent over into engagement with said plates, substantially as and for the purposes specified.

Specification, 5s. Drawings on application.

Application No. 4261.—FRANCIS JAMES ODLING, of No. 2 Princes' Walk, Princes' Bridge, Melbourne, in the State of Victoria, Mining Engineer, and WILLIAM JAMESON, of Broken Hill Chambers, No. 31 Queen Street, Melbourne, Victoria, Gentleman, "*Improved process for the separation of Sulphide Ores.*"—Dated 3rd February, 1903.

#### Claims:—

1. In our process for the separation of zinc blende from ore with which it is associated, treating the ore in a pulverized state and sufficiently wet condition with chlorine, gaseous or otherwise, for the purpose of attacking the surface of the zinc blende substantially as herein described.
2. In our process for the separation of zinc blende from ore with which it is associated, treating the ore when in a sufficiently wet and pulverized condition with chlorine, gaseous or otherwise, in order to attack the surface of the zinc blende and submitting the ore so treated to a ranning motion sufficient to bring the zinc blende particles together and allow them to adhere to each other forming small masses so as to be easily separable by mechanical means from the rest of the ore and gangue substantially as herein described.
3. Our process for the separation of zinc blende from ore with which it is associated consisting in first submitting the pulverized ore in a sufficiently wet condition to the action of chlorine, gaseous or otherwise, in order to attack the surface of the zinc blende, ranning the treated ore sufficient to bring about the formation of the zinc blende masses and then separating them from the rest of the ore and gangue by passing the treated ore on to a ranning or percussive table or other suitable ore-separating machine substantially as herein described.

Specification, 4s.

Application No. 4377.—UNITED SHOE MACHINERY COMPANY, of Boston, U.S.A. (Assignee of BENJAMIN FRANKLIN MAYO), "*Improvements in or relating to Machines for attaching the heels of boots and shoes.*"—Dated 15th April, 1903.

#### Claims:—

1. In a heel-nailing machine, the combination with a nail-carrier and a gate therefore of a nail-guide substantially as and for the purpose described.
2. In a heel-nailing machine, the combination of a nail-receiver having a chamber at one side, a nail gauge entering said chamber, and means substantially as described to sustain said nail-gauge at a distance from one face of the receiver.
3. In a heel-nailing machine, the combination with nail-driving mechanism of a nail-carrier substantially as described provided with a gate and a nail-guide, and means to actuate the gate when the carrier is moved into nail-delivering position, to permit the nails to pass through the nail-guide to the nail-driving mechanism.
4. In a heel-nailing machine, a nail-carrier substantially as described combined with a nail-gauge adapted to be removably supported by the nail carrier to provide for nails of different lengths.
5. In a heel-nailing machine, the combination with a plate such as D1 and a contact piece on said plate of an actuator yieldingly sustained for the purpose described and serving to move said plate to put the heel holding part thereof in operative position.
6. In a heel-nailing machine, the combination with a nail-carrier of a nail-gauge, a nail-guide and a gate substantially as and for the purposes described.
7. In a heel-nailing machine, the combination with a yielding catch and a top-lift and a heel-carrying plate engaged by said catch of tripping means actuated by said catch while a heel is being attached to a shoe, said tripping means releasing the catch after the heel has been attached substantially as described.
8. The improvements in heel-nailing machines substantially as and for the purpose described with reference to Figures 2, 4, 8 and 9 of the accompanying drawings.

Specification, £1 5s. Drawings on application.

Application No. 4393.—JOSEPH LENA, of 132 Queen Victoria Street, London, Engineer; ROBERT HARBER WHITELEGG, of Stuart House, Upton Lane, Forest Gate, Essex, Locomotive Engineer, and FREDERICK NOLAN BAKER, of the Ordinance College, Woolwich, Kent, Lieutenant in the Royal Artillery, all in England, "*Improvements in Railway Couplings.*"—Dated 23rd April, 1903.

#### Claims:—

1. A coupling consisting of a head fixed to the drawbar, said head terminating in a cradle forming a bed and attachment for the link, a hook with upper horn for connecting as required with an ordinary coupling link, and a lower horn for connecting with the link of our improved coupling, said hook jointed to the head by a pin movable in slots in the head, a spring between the head and the hook, said spring acting both against the hook and the link, and means for raising and lowering the hook for the purpose of uncoupling and coupling.
2. In a coupling, as firstly claimed, forming the hook with a shoulder against which the end of the link takes a bearing.
3. In a coupling, as firstly claimed, forming the head with a crescent-shaped bed having outer and inner rims between which the link lies and is guided while free to swivel and move while coupling or uncoupling.
4. In a coupling, as firstly claimed, a cross shaft having a hand lever at each end and a lever in the middle, which latter lever acts against a peg passing up through the drawbar head, and serves to lift the hook out of engagement with the link.
5. In combination with the middle lever, fourthly claimed, a weight sliding on the same and capable of engaging with recesses in a quadrant for the purpose of holding the hook in or out of engagement with the link.
6. The construction of coupling shown on the drawing.

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



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Applications for the Grant of Letters Patent