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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 September, 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. 4159.—CHRISTOPHER JOSEPH FRANK, of 5 Garraway's Rooms, Queen's Walk, Melbourne, in the County of Bourke, in the State of Victoria, Agent, "*An improved process of Manufacturing a Safety Explosive.*"—Dated 3rd December, 1902.

Claims:—

1. In the manufacture of a safety explosive, the combination of picric acid and glycerine and the neutralisation thereof by the addition of carbonate of ammonia, substantially as herein described.

2. In the manufacture of a safety explosive, the combination of picric acid and glycerine and the neutralisation thereof by the addition of carbonate of ammonia with the further addition of infusorial earth and so producing the picric mixture, substantially as herein described.

3. In the manufacture of a safety explosive, the combination of picric acid and glycerine and the neutralisation thereof by the addition of carbonate of ammonia with the further addition of infusorial earth and the production of the picric mixture with the still further addition of nitrate of potash, substantially as herein described.

4. In the manufacture of a safety explosive, the combination, method, or process hereinbefore described, comprising the association of picric acid and glycerine, the neutralisation thereof by the addition of carbonate of ammonia, the further addition of infusorial earth and the production of the picric mixture to which is added nitrate of potash, together with a small percentage of sulphur, after which the drying operation is carried out, substantially as described as and for the purpose set forth.

Specification, 3s.

Application No. 4162.—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, "*Improvements in Magnetic Separators for pulverised ores and other materials.*"—Dated 3rd December, 1902.

Claims:—

1. In an apparatus for the purpose specified the V-shaped pole pieces so assembled that the adjacent sides stand about vertical and with the blunt edges of the pole terminals lying parallel, but in an oblique direction to one another, with a space between them, the upper pole piece having transverse gaps in it and furnished with a movable shield substantially as described and shown.

2. In an apparatus for the purpose specified the pole pieces as A-A' assembled in the oblique position herein set forth and with the upper pole piece provided with transverse gaps combined with a reciprocating brass shield as E and the sheathed iron discs as F substantially as described and shown.

3. In an apparatus for the purpose specified the pole pieces as A-A' assembled in the oblique position herein set forth and with the upper pole piece provided with an end transverse gap A² combined with a V-sectioned endless rubber shield as E³ and a sheathed iron disc as F substantially as described and shown.

4. In an apparatus for the purpose specified the combination of pole A having transverse gaps a¹ in it, reciprocating brass shield as E, carried by a path plate as E¹, supporting rollers as E², spindle bolts as E³, the sheathed iron discs as F, and the vibratory feed table as H substantially as described and shown.

5. In an apparatus for the purpose specified the combination of pole A having an end gap as A², with an endless rubber shield as E³ supported on V-sectioned pulleys as E¹, the sheathed iron disc as F and the vibratory feed table as H substantially as described and shown.

6. In an apparatus for the purpose specified the vibratory feed table as H seated on spring supports as G¹ and provided with a weighted disc as H², and feed hopper as I, substantially as described and shown.

7. In an apparatus for the purpose specified the combination of poles as A-A' assembled and built as set forth, sliding shield as E, or the endless rubber shield as E³, vibratory table as H and the sheathed iron discs or disc as F all substantially as herein described and shown.

Specification, 8s. Drawings on application.

Application No. 4174.—UNITED SHOE MACHINERY Co., of Paterson, in the State of New Jersey, United States of America (assignee of E. T. Freeman), "*Improvements in Machines for Inserting Fastenings.*"—Dated 9th December, 1902.

Claims:—

1. In a machine for inserting fastenings, the combination of a spring-sustained work-support, a rod connected with said work-support, a lever, a clutch sustained by said lever and embracing said rod, a continuously moving actuator to move said lever in one direction that the clutch may engage and lift said rod, means to open said clutch and to release said rod as the lever is moved in the opposite direction, and means to move said lever to give the work-support an extra depression for the removal of the stock, said actuator while continuing its motion holding said lever in position to maintain the work-support in its depressed position.

2. In a machine for inserting fastenings, the combination of a spring-sustained work-support, a rod connected with said work-support, a lever, a clutch sustained by said lever and embracing said rod, a continuously moving actuator to move said lever in one direction that the clutch may engage and lift said rod, means to open said clutch to release said rod as the lever is moved in the opposite direction, means to move said lever to give the work-support an extra depression for the removal of stock, said actuator while continuing its motion holding said lever in position to maintain the work-support in its depressed position, and means to place said lever again under the control of said actuator to be moved thereby when the insertion of fastenings is to be resumed.

3. In a machine for inserting fastenings, the combination of a work-plate, a shaft having an actuator provided with a depression, a work-support, a lever connected with said work-support, a rod connected with said lever, a lever under the control of said actuator, a clutch sustained by said last named lever, a treadle to maintain said lever in the position to be moved by said actuator to depress the work-support intermittently, and means to cause the lever sustaining said clutch to enter the depression in said actuator that the clutch may descend on said rod for a distance sufficient to enable said clutch at the next movement of said lever after releasing the treadle to lift the rod and lower the horn into the position for the removal of stock.

4. In a machine for inserting fastenings, the combination with a driving-shaft, a driver, and an awl, of mechanism intermediate the driving-shaft and the awl for operating the awl, said mechanism including a clutch, and means for operating the clutch to disconnect the awl from the driving-shaft and render the awl inoperative during repeated operations of the driving-shaft and driver.

5. In a machine for inserting fastenings, the combination with a driving-shaft, a driver, mechanism for actuating the driver to insert fastenings, and an awl, of mechanism intermediate the driving-shaft and the awl for operating the awl, said mechanism including a clutch, and means arranged to be operated independently of the regular operations of the machine while the driving-shaft is in operation for actuating the clutch to connect the awl with the driving-shaft and render the awl operative.



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