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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,  
24th April, 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. 3949.—CHARLES NICHOLAS COLLISON, of Eagle Chambers, King William Street, Adelaide, South Australia, Licensed Patent Agent (*Charles Fairchild*), "*Improvements in Mechanical Cashiers, Registers, and Recorders.*"—Dated 16th July, 1902.

The claims, numbering 23, may be inspected at the Patent Office. Specifications, £2 5s. Drawings on application.

Application No. 4342.—UNITED SHOE MACHINERY COMPANY, of 205 Lincoln Street, Boston, Massachusetts, United States of America (assignee of EDWARD ALLIN STIGGINS), "*Improvements in Lasting Machines.*"—Dated 26th March, 1903.

The claims numbering 45 may be inspected at the Patent Office. Specification, £3 16s. Drawings on application.

Application No. 4353.—JOHN JAMES ROBERT SMYTHE, of Johannesburg, Transvaal, Mechanical Engineer, "*Improvements in and relating to Pneumatic Stampers.*"—Dated 31st March, 1903.

*Claim*—

The improvement in the construction of the cylinder of the type of pneumatic stamper, described and illustrated in the specification and drawings of Francis Haniel Harvey's British Patent No. 2145 of 1899, which consists in first increasing its working length and then increasing the number of rows of air holes therein, so that by varying the position of the rows actually in use from time to time, the position and travel of the piston are correspondingly altered, and the wear and tear of the shoes and dies of the stamper can be adequately and expeditiously compensated for, substantially as set forth.

Specification, 3s. 6d. Drawings on application.

Application No. 4355.—BALFOUR FRASER McTEAR, of Brook Cottage, Rainhill, in the County of Lancaster, England, Engineer, "*Improvements in and connected with Piercing and Forging Machinery for the manufacture of Tubes or Tubular Articles.*"—Dated 31st March, 1903.

*Claims*—

1. The herein described improvement connected with the piercing of steel or hard metal billets for the manufacture of seamless tubes or hollow bodies, consisting in forcing the metal of the billet over the piercing tool partly by compression thrust or squeezing, and partly by tension applied to the portion of the tube passed and passing over the tool and out of the die, substantially as set forth.

2. In piercing machinery for making seamless tubes or hollow bodies, a die for holding the metal to be pierced, made in two parts, axially in line with each other, and adapted to be moved relatively longitudinally; substantially as described.

3. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; a gripping device in said die, adapted to grip the front portion of the metal, and a die adapted to receive and hold the rear portion of said metal, and axially in line with said front holding die; said dies being adapted to be moved relatively longitudinally; substantially as described.

4. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; a die adapted to receive and hold the rear portion of the said metal, and axially in line with said front holding die; and a hydraulic cylinder and ram, or cylinders and rams, connected with said front holding die, adapted to move the said die away from the rear holding die; substantially as described.

5. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; the die adapted to receive and hold the rear portion of the said metal, and axially in line with said front holding die; a hydraulic cylinder and ram, or cylinders and rams, connected with said front holding die, adapted to move the said die away from the rear holding die; a hydraulic cylinder and ram connected with and adapted to move the rear holding die in the same direction as the front holding die; and a piercing tool; substantially as described.

6. In piercing machinery for making seamless tubes or hollow bodies, a die for receiving and holding the metal to be pierced, having within it a support for supporting longitudinally the outer or back end of the billet, comprising an outer tube adapted to support the outer part of the billet, and an inner ram within the outer tubular part for supporting the centre portion of the metal, and supported longitudinally hydraulically by liquid held within the outer tube, and released and allowed to move away from the billet by releasing said liquid; substantially as herein set forth for the purposes specified.

7. In piercing machinery for making seamless tubes or hollow bodies, the die 1, tube or cylinder 31 working within the die, and a ram 33 disposed within the tube 31; arranged, combined, and adapted to operate as set forth and shown in the drawings.

8. In piercing machinery for making seamless tubes or hollow bodies, the metal die 1, the main piercing ram 12 and cylinder 11, and the tube or cylinder 1 disposed between the ram 12 and die 1, and its front end working within the die 1; substantially as set forth and shown in the drawings.

9. In piercing machinery for making seamless tubes or hollow bodies, the metal die 1, the main piercing ram 12 and cylinder 11, the cylinder 31 disposed between the ram 12 and die 1, with its front end working in the die 1, and the ram 33 disposed within the cylinder 31, the said ram 12 and die 1 being connected together, substantially as set forth.

Specification, 18s. Drawings on application.

Application No. 4356.—JOHN CALVEET KERR and JOSEPH COXON, both of Denmark, Western Australia, Engineers, "*Differential Friction Gear for obtaining a variable Speed at either forward or backward motion by means of two wheels.*"—Dated 2nd April, 1903.

*Claim*—

A machine capable of producing forward or backward motion at a variable speed by means of two wheels set at right angles to one another.

Specification 2s. 6d. Drawings on application.

Application No. 4358.—CHARLES ALGERNON PARSONS, Engineer, of Heaton Works, Newcastle-on-Tyne, Northumberland, England, "*Improvements relating to Alternators.*"—Dated 3rd April, 1903.

*Claims*—

1. In alternators, the method of obtaining a current of low frequency, consisting in combining, differentially as regards speed, two or more rotating elements and one fixed element substantially as described.

2. An alternating current generator, consisting of two or more alternators, connected in parallel, one element of the first alternator being driven direct by a motor, and the other element being coupled



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Applications for the Grant of Letter Patent