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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,
6th February, 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. 3816.—THOMAS WILLIAM MESSENGER, of Quorn, South Australia, Engineer, "*Improvements in Ear Trumpets*."—Dated 9th April, 1902.

Claims:—

- In ear trumpets the combination with one or more trumpets having downwardly projecting ear pieces of a framework for supporting the same adapted to form the crown of a hat cap or other head gear.
- In ear trumpets the combination with one or more trumpets having downwardly projecting ear pieces and provided with open bell-shaped mouths arranged to bear upon the top of the forehead, of a framework adapted to form the crown of a hat cap or other head gear.
- In ear trumpets the combination with a framework adapted to form the crown of a hat cap or other head gear, of two trumpets supported within the same having bell-shaped open mouths extending towards the front in such manner that they bear upon the front bones of the forehead, said trumpets extending to the rear portion of the framework then doubling upon themselves and having downwardly projecting ear pieces, the front portion being made to fit telescopically upon the rear portion, substantially as described.
- In ear trumpets the combination with a framework adapted to form the crown of a hat cap or other head gear, of one or more trumpets having downwardly projecting ear pieces and connected by plates (such as E) having slots (such as E¹) whereby they may be adjusted as may be required, substantially as described.
- In ear trumpets in which one or more trumpets are arranged within a framework adapted to form the crown of a hat cap or other head gear, ear pieces (such as D) having downwardly projecting pieces (such as D¹) arranged upon the underneath side, substantially as described.

Specification, 6s. Drawings on application.

Application No. 3838.—ARCHIBALD MERTON WHITE, of Bolivia, New South Wales, Grazier (assignee of JOSEPH AINSWORTH), "*Improvements in Plough Shares*."—Dated 22nd April, 1902.

Claims:—

- A plough share whether its said face be hollowed or otherwise having grooves in said face substantially as herein described and explained.
- A plough share whether its face be hollowed or otherwise having a ridge on the land-side formed by a groove on the face of said share substantially as herein described and explained.

Specification, 2s. Drawings on application.

Application No. 4062.—CHARLES VICTOR RITCHIE, of Victoria Park, Western Australia, Engine Fitter, "*A new self-acting automatic wine, beer, and vat tilter*."—Dated 26th September, 1902.

Claims:—

- A cask tilting cradle provided with rocks as a¹, counter balance weights as d, and cask runners as e, the whole constructed and arranged

so that the cask is caused to tilt in an automatic and reciprocal manner substantially as and for the purposes herein set forth and explained and as illustrated in the attached drawings.

2. A cask tilter as above described and claimed in combination with a skid as e, employed for loading the cradle and having runners as e², and f¹, and which skid also acts by its roller f¹ as a continuous retention wedge during the tilting operation substantially as and for the purposes herein set forth and explained and as illustrated in the attached drawings.

Specification, 4s. Drawings on application.

Application No. 4156.—KARL SCHNETZER, Engineer, at Aussig-on-Elbe, 102 Krammel (Austria), "*Improvements in Soap Moulding Machines*."—Dated 3rd December, 1902.

Claims:—

- In a soap moulding machine the combination of a cooling vessel and of smooth metal moulds mounted therein, the bottoms of which are formed of movable plungers, substantially as described for the purpose set forth.
- In a soap moulding machine the combination of a cold water container and smooth metal moulds mounted therein, the bottoms of which are formed of movable plungers, substantially as described and for the purpose set forth.

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

Application No. 4184.—JAMES HOLDEN BRAITHWAITE, of Gawler Road, Barnsley, Yorkshire, England, "*A new or improved free wheel and variable speed gearing for use in connection with velocipedes, motor cars and the like, and for other purposes*."—Dated 16th December, 1902.

Claims:—

- A new or improved free wheel and variable speed gear comprising a driven part preferably taking the form of a circular plate or disc, furnished with radial slots or recesses, a driving part which may take the form of a chain ring, carried against the driven part and furnished with an annular groove or channel containing clutch blocks corresponding in number to the radial grooves in the driven part, and each engaging one of the said slots or grooves by means of a lateral pin, stud or extension; in combination with means for raising and lowering the driving part against the face of the driven part, so that it may be more or less eccentric thereto; substantially as set forth.
- A new or improved free wheel and variable speed gear, consisting of a disc such as a formed integrally with or secured to a hub such as a¹ or other part or mechanism required to be driven, and formed with radial slots or grooves such as a², a chain ring such as b, furnished with an annular channel or groove formed with a strengthening flange such as b², carried against the face of the plate or disc a, and supported on ball bearings by a circular disc d, carried on a broad ring d¹ mounted upon the hub or the like a¹ and furnished with a broad flanged opening d² to allow of the disc d and chain ring b sliding up and down against the face of the plate or disc a, in combination with the mechanism for raising and lowering the disc d and chain ring b; substantially as described and shown with reference to the accompanying drawings and for the purposes specified.
- The combination with a free wheel and variable speed gear such as above claimed of the mechanism for raising and lowering the chain ring or driving member; substantially as described and shown with more particular reference to Figs. 1, 7 and 15 to 17 of the accompanying drawings.
- The modified arrangement for rendering the variation in gear automatic; substantially as described and shown with more particular reference to Figs. 18 to 20 of the accompanying drawings.

Specification, 8s. Drawings on application.

Application No. 4185.—FREDERIC MOORE, Lynwood, Marrickville Road, Marrickville, New South Wales, Draftsman, "*Oil and Grease Separator*."—Dated 16th December, 1902.



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