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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,
17th July, 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. 4442.—SAMUEL BUTLER, of Henbury Hill, Westbury-on-Trym, Bristol, England, Merchant, "*Improvements connected with Anti-skidding Devices for Motor Vehicles.*"—Dated 28th May, 1903.

Claims:—

1. A tyre having a flat thick tread of india-rubber for the purpose of forming a bed for a flexible chain-like band or belt, or other non-skidding device to lie upon and impress itself into the rubber tyre, substantially as herein described and set forth.

2. The attachment of a bridle or guard to a belt-chain or any non-skidding device, placed around the tread of a tyre for the purpose of insuring its coming off on the outside of the wheel only, substantially as herein described and set forth.

3. The method of preventing chains, belts, bands or the like employed on the tread of the tyre of a motor vehicle from coming off on the inner side of the wheel, or from flying off tangentially, by means of a bridle of rope, wire, chain or cord of any suitable material, substantially as herein described and set forth.

Specifications, 4s. Drawings on application.

Application No. 4446.—WILLIAM BOWIE STEPHENSON, residing on the property of the Nourse Deep Gold Mining Company, Limited, Witwatersrand Goldfields, Transvaal, Engineer, "*Improvements in Safety Gear for Mine Skips, Cages, and the like.*"—Dated 2nd June, 1903.

Claims:—

1. In a safety gear for mine skips, cages and the like, the combination with the supporting frame of the angular containing and guiding straps and the dog-wedges, the latter being arranged in the straps in such manner that when raised the vertical serrated or toothed surfaces move inwards and parallel with the sides of the guides or runners, and means which operate to raise said wedges in their containing and guiding straps should the cage or skip become unsuspected, substantially as described.

2. In a safety gear for mine skips, cages and the like, in combination the supporting frame, the containing and guiding straps fitted thereto and forming angular recesses at the sides of the guides or runners, the dog-wedges or catches arranged in the angular recesses of the containing and guiding straps and constructed with serrated or toothed vertical gripping surfaces which move inward and parallel to the guides or runners when raised in the straps, the rods arranged in the supporting frame, the wipers fixed thereon and the rods pivotally attached at one end to the wipers and at the other end to the wedges or catches for the purpose of raising the wedges or catches in their containing and guiding straps, substantially as and for the purposes described.

3. A safety gear or mechanism for mine skips, cages and the like having its several parts constructed, arranged and operating for the purposes specified, substantially as described and illustrated in the accompanying drawings.

Specification, 7s. 6d. Drawings on application.

Application No. 4451.—THE OLIVER MILL CO., LIMITED, of 220 Gresham House, Old Broad Street, London, E.C., England (assignee of James Thame, and Arthur William Smith), "*Improvements in Disintegrating Machines.*"—Dated 4th June, 1903.

Claims:—

1. A disintegrating or pulverising machine having beaters revolving in a casing, a stationary impact block within said casing having its impact surface arranged at such an angle relative to the position of the feeding orifice or orifices in the casing and the axis of the rotary beaters that the material is thrown by the beaters against the said block in a direction substantially normal to its surface in order to limit the zone of pulverisation and wear on the casing to the vicinity of the block and to keep the material in this zone until disintegrated small enough to be carried under the block by the air current set up by the rotary beaters, substantially as described.

2. A disintegrating or pulverising machine having beaters revolving in a casing in which the material is thrown by the beaters upon a screen so that the graded material is separated from the larger particles which return to the beaters for further disintegration, the dust being carried off from the front and back of the screen by the air current set up by the beaters in the casing so as to leave the graded material free from dust, substantially as described.

3. In a rotary disintegrating or pulverising machine having beaters or lifters, the mounting of the beater or lifter heads upon stems of a flexible character capable of axial compression but of sufficient rigidity in an axial direction to support the beater heads in their normal radial position, substantially as described.

4. In a disintegrating or pulverising machine having beaters or lifters, the mounting of the beater or lifter heads upon stems consisting of wire rope and clamping means for the attachment of the strands thereof to the respective parts, substantially as described.

5. In a disintegrating or pulverising machine having beaters or lifters, wire rope stems for carrying the beater or lifter heads and a protecting sleeve to each stem arranged so as not to interfere with the flexibility or compressibility of the stem, substantially as described.

6. The arrangement and construction of a disintegrating or pulverising machine, substantially as described and illustrated by the accompanying drawings.

Specifications, 16s. Drawings on application.

Application No. 4452.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patent Agent (*John Andrews and Sydney Andrews*), "*Improvements in conditioning or improving the quality of recently ground Flour, Semolina, or the like.*"—Dated 4th June, 1903.

Claims:—

1. In the process of conditioning flour and the like, passing the same with full exposure through an atmosphere containing a gaseous oxide of nitrogen or chlorine or bromine oxidising agent in the gaseous or vapourised state.

2. The apparatus for the purposes described consisting of a device for impregnating air with a gaseous oxidising agent, a rotating conveyor receiving the oxidising atmosphere and through which the material to be treated is passed in a regulated stream.

Specification, 5s. Drawings on application.

Application No. 4453.—GEORGE RIDGWAY, of Great Boulder Gold Mine, Engineer, "*An improved Filter Press Tap, to be known as Ridgway's Filter Press Tap.*"—Dated 5th June, 1903.

Claims:—

1. In a filter press tap a valve constructed to receive an ordinary gauge glass india rubber ring, forming a seating, and also having one wing extended, and bored to receive the pin passing through the handle, so that it may be raised or lowered by means of a handle and pin, without the use of packing glands and the like, as described and illustrated in the accompanying drawings.



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