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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,
10th 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. 4259.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, Victoria, Patent Agent (*Thomas Edwards*), "*Improvements in rotatable Rabblers for Furnaces*."—Dated 3rd February, 1903.

Claims:—

1. A rabble of the class indicated comprising a foot, and a stem extending downwardly from said foot through the furnace hearth, and rotatable from below said hearth substantially as described with reference to Figure 1.
 2. In combination with the parts comprised by Claim 1, means for the introduction of water to the rabble foot from below the furnace hearth substantially as described.
 3. In combination with the parts comprised by Claim 1, means for the exit of water from the rabble foot to below the furnace hearth substantially as described.
 4. In combination, the rabble foot, stem, water inlet and outlet illustrated by firm lines in Figure 2 (or modified as indicated) substantially as described.
 5. In combination a downwardly extending rotatable rabble stem and an upward waterway from an exterior supply tube to an interior tube within said stem arranged as described with reference to Figure 2.
 6. In combination a downwardly extending rotatable rabble stem and an upward water way from an exterior supply tube to an interior tube within said stem arranged as described with reference to Figure 3.
 7. In combination a downwardly extending rotatable rabble stem and an upward waterway from an exterior supply tube to an interior tube within said stem arranged as described with reference to Figure 4.
- Specification, 3s. 6d. Drawings on application.

Application No. 4260.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, Victoria, Patent Agent (*Thomas Edwards*), "*Improvements in Furnaces for Ore-roasting and other purposes*."—Dated 3rd February, 1903.

Claims:—

1. In a furnace, the combination, with an elongated hearth, of openings therethrough at intervals lengthwise thereof to feed air upward substantially as described.
2. In a furnace, the combination, with an elongated hearth, of openings therethrough at intervals lengthwise thereof, and means for regulating the supply of air upward through the openings as described.
3. In a furnace, the combination, with an elongated hearth, of air-openings at the hearth sides, and air-openings extending downward through the hearth as described.
4. In a furnace, the combination, with an elongated hearth, of sleeves extending downward therethrough with a regulator or slide for each sleeve whereby the supply of air upward to the hearth may be controlled substantially as described.

5. In a furnace of the class indicated, the combination, with the hearth, of a series of rotatable rabblers and of air-inlets comprising sleeves extending through and above the hearth as described.

6. In a furnace, the combination with the rabblers, of a line shaft below the same, gearing connecting the line-shaft and the rabble spindles, and openings for the purposes set forth in the arch of the furnace substantially as described.

7. In a furnace, the combination with a series of rabblers of arch openings elongated and located as and for the purposes set forth, with or without tapered iron boxes as described.

8. A furnace having a series of elongated arch openings and in combination, a series of hearth inlets, each arranged as and for the purposes set forth.

9. The combination with the parts in Claim 3 of means for rotation beneath the hearth, connected to rabble feet spindles which pass through the hearth air inlets but have not extensions to the furnace arch, said arch being wholly closed during the rabbling.

10. In a furnace an elongated hearth having beneath it a tunnel for the purposes set forth, in combination with, over one end of the hearth, means for feeding the ore; at the other end the main fireplace; and one or more additional fireplaces arranged at the side or opposite sides along the length of the furnace as and for the purposes described.

11. In a furnace a rabble of the construction comprised substantially by the foot, stem, spindle and other parts heretofore described, illustrated in Figure 5.

12. In a furnace the combination of parts in the next preceding claim with an annular pan set loosely round the stem f, under the spout l, and a collar or bearing as v below the hearth round the spindle f' to keep the rabble in position.

Specification, 8s. 6d. Drawings on application.

Application No. 4460.—HERBERT HENRY FROST, of Tipping Street, Ardwick, Manchester, in the county of Lancaster, England, Engineer, "*Improvements in Fluid Meters*."—Dated 10th June, 1903.

Claims:—

1. In a fluid meter having a measuring chamber and a double acting piston, dispensing with the ordinary stuffing box and packing for the piston rod, and instead, surrounding the piston rod with a casting the only outlet from which is sealed by an extension of the sliding valve cover, substantially as herein set forth.
2. In combination, in a fluid meter, a measuring chamber, a double acting piston therein, the piston rod passing through the wall of the chamber, a valve cover connected with the piston rod, a casing enclosing the projecting end of the piston rod and having an opening, said valve cover and piston rod being connected through said opening and an extension on the valve cover for sealing said opening, substantially as described.
3. In combination, the measuring cylinder, the double-acting piston, slotted piston rod, casing surrounding piston rod, valve mover projecting through a slot in the casing into the slot of the piston rod and the extension of the sliding valve cover by which the slot in the casing is sealed, substantially as herein set forth.
4. In combination, the casing, the piston and piston rod, a valve cover connected with the piston, said cover having a grooved back, a grooved resilient bearing piece, the balls arranged between the cover and the resilient bearing, substantially as described.
5. The general arrangement and combination of parts embodying my improvements in fluid meters substantially as herein shown and described.

Specifications, 7s. Drawings on application.

Application No. 4462.—MANUEL LOPEZ DE LA CAMARA, of Calle de Mariacca Pineda, No. 36, Principal, Engineer, and FRANCISCO ROBEDANO EGANA, of el Ingenio de San José, Chemist, both of Granada, Spain, "*Chemical process to extract the cellulose out of the trashes, pulp, and residues of sugar cane and similar products for making paper and pasteboard stuffs and like products*."—Dated 10th June, 1903.



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Applications for the Grant of Letters Patent