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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,
30th January, 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. 3760.—ENOCH RICHARDSON, of 18 Muir Street, Hawthorn, in the County of Bourke and State of Victoria, Engineer, "*Improvements in the fittings of Locomotive, Traction, Portable, Stationary, Marine, and other Boilers used for the Production of Steam, as affecting the admission and distribution of air, the more complete combustion of fuel, and prevention of smoke.*"—Dated 4th March, 1902.

Claims:—

1. In an apparatus for controlling the admission and distribution of air for the more complete combustion of fuel and the prevention of smoke. A grate bar b, with perforations inclined alternately in the horizontal portion of said bar for the inlet of atmospheric air to the carbonaceous portion of the fire, and having a vertical extension at one end b^1, made hollow and provided with outlets c, for the supply of atmospheric air to the gaseous portion of the furnace, made, constructed and fitted as illustrated in figures 1 and 4, sheet 1.
2. In an apparatus for controlling the admission and distribution of air for the more complete combustion of fuel and the prevention of smoke. The hollow support or bearer a, with apertures over which the vertical extensions of the grate bars rest and which conveys the atmospheric air from the air producer to the vertical extensions of the grate bars and through the apertures to the gaseous portion of the fire, made and constructed as illustrated and shown in figure 5, sheet 1.
3. In an apparatus for controlling the admission and distribution of air for the more complete combustion of fuel and the prevention of smoke. The air distributor shown in figure 1, sheet 2, composed of semicircular pipes attached to horizontal side pipes perforated and arranged as shown on figure 2, sheet 2, and the extended semicircular pipes connected by horizontal transverse pipes and perforated as shown on figure 3, sheet 2, for conveying atmospheric air to the gaseous portion of furnace.
4. In an apparatus for controlling the admission and distribution of air for the more complete combustion of fuel and the prevention of smoke. The circular support or bearer g, in combination with the horizontal air distributors d, made and constructed as illustrated by figure 5, sheet 2.
5. In an apparatus for controlling the admission and distribution of air for the more complete combustion of fuel and the prevention of smoke. The general arrangements of the several parts set forth consisting of grate-bars and their supports, air distributors and connections for controlling the admission and distribution of atmospheric air, for the more complete combustion of fuel and the prevention of smoke, in locomotives, traction, portable, stationary, marine, and other boiler furnaces, constructed and arranged substantially as described and illustrated as and for the purposes set forth as a combination of parts.

Specification, 7s. Drawings on application.

Application No. 3824.—WILLIAM CHANDOS WALL, of 22 Wellington Street, Newtown, in the State of New South Wales, Commercial Agent, "*An improved Washing Machine.*"—Dated 15th April, 1902.

Claim:—

1. An improved washing machine, consisting of a box or tub, subdivided by a cross partition which does not extend quite to the bottom thereof, and having a grating in the bottom of each compartment; a pair of fixed standards carrying a cross shaft, on which is supported an overlying oscillating frame to which is pivotally attached a pair of perforated and adjustable plungers, adapted to rise and fall in the compartments of the tub by the oscillation of the overlying frame, said plungers being provided with a series of projections corresponding with the slots in the gratings in bottom of said tub; operating lever handles pivotally attached to the fixed standards, and connected to the oscillating frame by means of pivoted adjustable connecting pieces; and suitable balance weights attached to the oscillating frame, substantially as described and as illustrated in the drawings.

Specifications, 8s. Drawings on application.

Application No. 3828.—RICHARD DAVID SANDERS, of 5 Kidbrook Grove, Blackheath, in the County of Kent, England, Engineer, "*Improvements in the electro-deposition of metals for the manufacture of Compound Wire Bars and the like, and in apparatus therefor.*"—Dated 17th April, 1902.

Claims:—

1. In apparatus for the manufacture of wire or the like by electro-deposition upon a mother wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank and a cathode connection between the coil and said shaft, substantially as described.
2. In apparatus for the manufacture of wire or the like by electro-deposition upon a mother wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank and a cathode connection between the coil and said shaft, and a partition located in said tank between the anode and said coil and extending from the top of the tank to a point adjacent to the bottom thereof, substantially as described.
3. In apparatus for the manufacture of wire or the like by electro-deposition upon a mother wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank and a cathode connection between the coil and said shaft, and a partition located in said tank between the anode and said coil and extending from the top of the tank to a point adjacent to the bottom thereof, a compartment located within the coil to be acted upon and provided with apertures for the circulation of the electrolyte and an anode located in said compartment, substantially as described.
4. In apparatus for the manufacture of wire or the like by electro-deposition upon a mother wire in the form of a coil, the combination with the tank for containing the electrolyte, of a shaft above the same provided with a smooth coating of insulating material, collars of insulating material to prevent the endwise movement of the coil and collars of conducting material to engage the end of the coil, an anode within said tank and a cathode connection with said conducting collars, substantially as described.
5. In apparatus for the manufacture of wire or the like by electro-deposition upon a mother wire in the form of a coil, the combination with the tank for containing the electrolyte, of a supporting shaft of a smaller diameter than the coil of mother wire for supporting said coil, said shaft being provided with a coating of insulating material, means for rotating said shaft, a cathode connection between said coil and said shaft, and coil engaging devices on said shaft for retaining the coil against lateral movement, substantially as described.

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