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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,
27th June, 1902.

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 first appearance of this advertisement in the *Western Australian Government Gazette*. A fee of Ten Shillings (10s.) is payable with such notice

Application No. 3873.—GEORGE GARIBALDI TURRI, of Salisbury Building, Queen Street, Melbourne, in the State of Victoria, Patent Agent (*Henry George Abraham Isaac Weider and Samuel Sidney Bromhead*), "*An improved Sensitive Diaphragm for Reproducing and Transmitting Sound.*"—Dated 19th May, 1902.

Claims:—

1. The combination of two or more graduated glass discs with intermediate wires, substantially as herein described and set forth.
2. The combination of the cone *a*, and two or more graduated glass discs *b*, and intermediate wires *c*, substantially as herein described and set forth.
3. The combination of the perforated disc *e*, with the rim *g*, and the metal back *f*, substantially as herein described and set forth.
4. The combination of the cone *a*, discs *b*, and wires *c*, as in Claim 2 with the vulcanite or metal disc *e*, substantially as herein described and set forth.
5. The sensitive sound reproducer or vibrating diaphragm *a b c c f* consisting of the cone *a*, graduated glass discs *b*, separated by the wires *c*, connected thereto, and the perforated disc *e*, metal back *f* and washers *d*, and connected by the rim *g*, substantially as herein described and set forth.

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

Application No. 3880.—FRANK KLEPETKO, Mining and Metallurgical Engineer, Deer Lodge, County Montana, and WILLIAM JOHN EVANS, of Great Falls Cascade, County Montana, United States of America, Mechanical Engineer, "*Improvements in Roasting Furnaces.*"—Dated 27th May, 1902.

Claims:—

1. In a furnace of the class described a hearth, a roof therefor, a hopper thereabove having a constricted opening, means for agitating the material to be treated in the opening of said hopper consisting of a rotary stirrer, arms projected from the upper outer edge of said hopper to the discharge opening thereof, and separate means for feeding the material from said hopper to said hearth, substantially as set forth.
2. A roasting furnace having a hearth and roof, a central vertical stirring shaft therein, a stirring arm arranged on said shaft beneath and near said roof and extending over the hearth, and an upward projection on said arm in position to remove accretions from the roof, substantially as set forth.
3. In a furnace having a plurality of hearths, a rotatable hollow shaft passing through the hearth, a series of hollow arms radiating from said shaft and extending into the several hearths, an inner water feed-pipe located within, and rotatable with the shaft, a series of

branches or distributing pipes leading from said pipe and communicating with the interior of the hollow arms for returning the water of circulation through the hollow shaft to a point adjacent to the feed end of the feed-pipe, substantially as set forth.

4. In a furnace having a plurality of hearths, a rotatable hollow shaft passing through the hearths, a series of hollow arms radiating from said shaft and extending into the several hearths, an inner water feed-pipe closed at the bottom located within the shaft and rotatable therewith, a series of branches or distributing pipes leading from said feed-pipe and communicating at their outer ends with the interior of the hollow arms, for returning the water of circulation through the hollow shaft to a point adjacent to the feed end of the feed-pipe, substantially as set forth.

5. In a roasting furnace, a rotatable shaft, one or more arms carried thereby, flanges formed on either side of said arms and a series of removable stirring teeth embracing said flanges, substantially as set forth.

6. In a rotating furnace, a rotatable shaft, one or more hollow arms carried thereby, said arms having a substantially plane bottom and flaring peripheral walls, an inner water feed-pipe within the shaft, a series of branches or distributing pipes leading from said feed-pipe and communicating with the interior of the hollow arms for returning the water of circulation through the arms and through the shaft to a point adjacent to the feed end of the feed-pipe, and causing the ascending currents of the water to follow the flaring walls of said hollow arms, substantially as set forth.

7. In a roasting furnace, a rotatable shaft, one or more arms carried thereby, said arms having a flat bottom and peripheral upwardly flaring walls, lateral flanges forming extensions of said bottom, and a series of stirring teeth embracing said flanges, substantially as set forth.

8. In a roasting furnace having a plurality of hearths, a rotatable shaft passing through the hearths, arms radiating from said shaft, a series of stirring teeth carried by said arms, a feed hopper for the upper hearth, and a plurality of discharge flues or passages leading from said upper hearth whereby uniform drying results are insured, substantially as set forth.

Specification, 15s. Drawings on application.

Application No. 3881.—FRED LOBNITZ, of Clarence House, Renfrew, Scotland, Engineer and Shipbuilder, "*Improvements connected with Rock-cutting Apparatus.*"—Dated 27th May, 1902.

Claims:—

1. In rock-cutting apparatus, utilising the natural slackening or kinking of the hoisting rope which occurs each time the cutter strikes the rock to actuate mechanism whereby the clutch of the hoisting winch is instantaneously and automatically applied, substantially as hereinbefore set forth.
2. In a rock-cutting apparatus, the combination of a rock-cutter, a rope or its equivalent for raising the rock-cutter, a hoisting winch, a clutch on the winch and means (operated by the slackening or kinking of the rope each time the cutter strikes the rock) for automatically applying the clutch, substantially as hereinbefore set forth.
3. The apparatus for automatically applying the clutch of the hoisting winch, substantially as hereinbefore described and shown at Figs. 3, 4, 5, and 5a of the drawings annexed.
4. The apparatus for automatically applying the clutch of the hoisting winch, substantially as hereinbefore described and shown at Figs. 6 and 7 of the drawings annexed.

Specification, 13s. 6d. Drawings on application.

Application No. 3883.—FREDERIC FOCHE, Engineer, of 38 rue des Ecluses, Saint Martin, Paris, France, "*Air Condenser for Locomotives and other Steam-propelled Vehicles.*"—Dated 3rd June, 1902.

Claims:—

1. In an air condenser for locomotives and other vehicles propelled by steam, the combination of condensing surfaces with fans in such a manner that the air enters at the sides of the vehicle carrying the con-



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Applications for the Grant of Letters Patent