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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,
2nd May, 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 any of 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. 3523.—JOSEPH SCHOFIELD, of 26 Austin Street, Footscray, Victoria, Manufacturer, "*Hydraulic apparatus for the Separation and Recovery of Metals and Minerals from their Ores.*"—Dated 3rd September, 1901.

Claims:—

1. In hydraulic apparatus for the separation and recovery of metals and minerals from their ores, in combination a tank, a frame within same carrying an inclined plate to receive the ore and a number of boxes, the top of which are covered by a screen which communicates with the inclined plate and means of supplying water to the ore substantially as set forth.

2. In hydraulic apparatus for the separation and recovery of metals and minerals from their ores in combination a tank, a frame within same carrying an inclined plate as J to receive the ore and a number of boxes as L the top of which are covered by a screen which communicates with the inclined plate and the bottoms of which are arranged to release the material when a predetermined quantity by weight has accumulated in a box and means of supplying water to the ore substantially as set forth.

3. In hydraulic apparatus for the separation and recovery of metals and minerals in combination a tank having two compartments, a frame H in one compartment supporting inclined plate J and a number of boxes L covered by screen M and having hinged and counter-balanced doors at their bottoms, a fluted roller as D above the plate J and a hopper F above the roller, and a perforated pipe Q substantially as set forth.

4. In hydraulic apparatus for the separation and recovery of metals and minerals—in combination a tank as A divided into two compartments A1 A2 by gap plate B, a frame H in the compartment A1, means for adjusting the inclination of the frame, an inclined plate J with immerser plate R, level strip K and boxes L supported by the frame, a screen M covering top of boxes and on a level with the strip K hinged counter-balanced doors at bottom of boxes, hollow roller D carrying angular bar G hopper F and water pipe Q substantially as set forth.

5. The combination and arrangement of the whole of the parts for the purposes herein described and substantially as illustrated on the accompanying drawings.

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

Application No. 3588.—HARRY VAUGHAN RUDSTON READ, of Broad Street Avenue, London, England, Civil Engineer, "*Improvements in connection with Syphons or the like, in which the aeration of liquids is affected by releasing compressed or liquefied gas from containers thereof.*"—Dated 9th October, 1901.

Claims:—

1. A syphon head consisting of the arrangement and combination of parts hereinbefore described and illustrated in Figure 1 of the accompanying drawings.

2. A syphon head consisting of the arrangement and combination of parts hereinbefore described and illustrated in Figure 2 of the accompanying drawings.

3. Washers for syphons, the said washers being made with a hard portion to prevent adherence and a soft portion to make a joint as hereinbefore described.

4. In syphons of the kind hereinbefore referred to a piercer arranged so as to be longitudinally movable in combination with a valve controlling the passage of gas and opened on the longitudinal movement of the piercer substantially as hereinbefore described under various modifications.

5. A washer for the reception for the head of the gas container, the said washer being made as hereinbefore described with reference to Figure 3 of the accompanying drawings.

6. In syphons of the kind herein referred to the combination with the outlet spout of an outlet controlled by a valve pressed against the outlet orifice by a spring and provided with a spindle working in an extension on the spout and provided with a lever for operating it the said spring and valve acting also as a safety device substantially as hereinbefore described.

7. A syphon head consisting of the arrangements and combinations of parts hereinbefore described and illustrated respectively in Figures 4 and 6 of the accompanying drawings.

8. In syphons of the kind referred to, the employment of a washer of inverted U form as hereinbefore described and illustrated in Figures 4 to 6 of the accompanying drawings.

9. The connection of the cap or movable part of the receptacle (which cap or movable part is operated to effect the piercing of the container) with the stationary or lower part of the said receptacle by means of a bayonet joint arrangement such that the container is pierced on partially rotating the cap, and then the said container is eased from the piercer, substantially as hereinbefore described.

10. In a syphon head the arrangement of parts as hereinbefore described and illustrated in figure 17 of the accompanying drawing.

11. In a syphon head the arrangement of parts as hereinbefore described and illustrated in Figure 18 of the accompanying drawings.

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

Application No. 3799.—HENRY JAMES JONES, of Stratford, New Zealand, Engineer, "*Improved appliances for the generation of Acetylene Gas.*"—Dated 2nd April, 1902.

Claims:—

1. In acetylene gas generators, a cylindrical water tank or chamber whose top end is open and whose bottom end is tapered downwards and is provided with a removable slime chamber and with means for causing a circulation of water therein in combination with a bottomless gas generator and holder fitting within the tank, a cage or basket suspended within the generator or holder, a feeding tube in the centre thereof, and an outlet pipe leading from the holder to the outside of the appliance, all as and for the several purposes herein specified.

2. A generator for acetylene gas consisting of a bottomless chamber fitting within a water tank or reservoir, such generator having a basket or cage suspended within it upon rods closely fitting within sleeves secured to the top of the generator, the top ends of the rods being secured together by means of a cross piece, as herein specified.

3. A generator for acetylene gas consisting of a bottomless chamber fitting within a water tank or reservoir and provided with a basket or cage suspended therein, in combination with a central feeding tube secured to the top of the generator and whose bottom end opens into the basket or cage therein, such feeding tube being provided with means whereby the top and bottom ends may be opened or closed simultaneously as herein set forth.

4. The general arrangement, construction and combination of parts in our appliances, for the generation of acetylene gas, as herein described and explained, as illustrated in the accompanying drawing and for the several purposes set forth.

Specification, 6s. Drawings on application.

Application No. 3802.—GUSTAV AMBERG, of 4 Spener Strasse, Berlin, Germany, Professor of Physics, "*A new and improved Telephone System.*"—Dated 2nd April, 1902.

Claims:—

1. A telephone system comprising a metallic talking circuit, an electric battery A, a microphone M and a transformer T inserted in this



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Application for the Grant of Letters Patent