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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,
1st April, 1904.

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. 4822.—WILLIAM HENRY DAVIS, of Boulder, County of Boulder, State of Colorado, "*Process for treating Cyanide Solutions.*"—Dated 8th March, 1904.

Claims:—

1. The method herein-described of treating cyanide solutions used in the extraction of precious metals from their ores, which consists in introducing an alkaline hydrate into the solution, and subjecting the mixture to the action of an alternating electric current.

2. The method herein-described of treating cyanide solutions during, or subsequently to, their contact with the ore, which consists in introducing into the solution an alkaline hydrate, then subjecting said solution to such action as will raise the osmotic pressure, thereby dissociating the double salts in the solution, causing precipitation of the hydrates the base metals, and causing simultaneous regeneration of the cyanide in the solution and clarifying the latter.

Specification, 11s. Drawings on application.

Application No. 4827.—FREEMAN HINES, LIMITED, of 2 Victoria Street, Westminster, London, England, Merchants (*assignee of William Thorpe*), "*An improved Joint, applicable also to Covers.*"—Dated 14th March, 1904.

Claims:—

1. An improved joint comprising a socket or flange on one of the parts or members to be joined, said socket having a cam-shaped projection formed or disposed therein and a spigot, stem or flange in the other member having a corresponding cam-shaped projection formed thereon, said cam-shaped projections having a longitudinal and lateral slope and adapted to co-act with each other, substantially as and for the purposes set forth.

2. An improved joint comprising a collar having a cam-shaped projection formed or disposed therein, said cam having a longitudinal and lateral slope and corresponding cam-shaped projections or linings disposed upon spigots or stems of members to be joined, the cams on said collar and stems being adapted to be slidden upon one another for the purpose of making a tight joint, substantially as described.

3. An improved joint comprising a stem having a cam-shaped projection formed or disposed thereon, said cam having a longitudinal and lateral slope and corresponding cam-shaped projections or linings disposed in flanges or sockets of members to be joined, the cams on said spigot and sockets being adapted to be slidden upon one another for the purpose of making a tight joint, substantially as described.

4. An improved joint comprising a socket or flange on one of the parts or members to be joined, said socket having a cam-shaped projection formed or disposed thereon, and a spigot, stem, or flange on the other member having a corresponding cam-shaped projection formed thereon, said cam-shaped projections having a longitudinal and lateral

slope with or without a wedge disposed between steps of said cams, whereby the cams are forced or jammed together and form a tight joint, substantially as described.

5. An improved joint comprising a socket or flange on one of the parts or members to be joined, said socket having a cam-shaped projection formed or disposed thereon, and a spigot, stem, or flange on the other member having a corresponding cam-shaped projection formed or disposed thereon, said cam-shaped projections having a longitudinal and lateral slope, the step ends of said cams being inclined obliquely to the axis of the members to be joined, and with or without a wedge, and with or without a filling between the steps of the cam projections, substantially as described.

6. An improved joint comprising a socket or flange on one of the parts or members to be joined, said socket having a cam-shaped projection formed or disposed therein, and a spigot, stem, or flange on the other member having a corresponding cam-shaped projection formed thereon, said cam-shaped projections having a longitudinal and lateral slope and adapted to co-act with each other, and provided with a groove or grooves in the face, back, or front thereof, substantially as and for the purpose set forth.

7. The improved joint, substantially as described with reference to the accompanying drawings.

Specification, 9s. 6d. Drawings on application.

Application No. 4828.—ALBERT CARTER, of Los Angeles, County of Los Angeles, State of California, United States of America, Gentleman, "*Improvements in Solar Furnaces.*"—Dated 14th March, 1904.

Claims:—

1. In an apparatus of the class described, a concave reflector comprising a plurality of concave sections individually adjustable to focus individually or in groups on different points.

2. In an apparatus of the class described, a concave reflector comprising a plurality of concave sections individually adjustable to focus individually or in groups upon different points, and means for shifting the reflector without shifting the positions of the sections with respect to each other.

3. In an apparatus of the class described, the combination with a concave mirror, of a frame carrying said mirror, a base frame pivoted for movement in a horizontal plane to which the first-named frame is hinged at one end and means for varying the angle between the frames.

4. In an apparatus of the class described, the combination with a concave supporting frame, of a concave reflector comprising concave sections, clamping plates disposed in pairs transversely of the upper and lower faces of each section, clamping bolts passed through the plates and the supporting frame and means for adjusting the bolts in the frame to vary the positions of the sections with respect to each other.

5. In an apparatus of the class described, the combination with a frame including longitudinal and transverse members, of a concave supplemental frame including longitudinal and transverse arc-shaped members, bolts passed through both members of the supplemental frame and through the main frame and provided with clamping nuts, and sleeves of varying lengths enclosing the bolts and resting with their ends against the supplemental and main frame respectively.

6. In an apparatus of the class described, the combination with a concave reflector, of a boiler disposed to receive the reflected rays from said reflector, said boiler being adjustable toward and away from the reflector.

7. In an apparatus of the class described, the combination with a concave reflector, of a boiler disposed to receive the rays reflected from the reflector, said boiler being adjustable toward and away from the reflector and the reflector comprising sections individually adjustable to concentrate their reflected rays individually or in groups upon different points of the boiler.

8. In an apparatus of the class described, the combination with a concave reflector, of a boiler disposed to receive rays from the reflector, the surface which receives said rays being convex and substantially parallel with the reflector.

9. In an apparatus of the class described, the combination with a concave reflector, of a boiler disposed to receive the rays from the reflector, the surface of said boiler exposed to said rays being convex and substantially parallel with the reflector and having radiating projections.

10. In an apparatus of the class described, the combination with a reflector, of a boiler disposed to receive the rays from the reflector, the surface of said boiler exposed to said rays having projections in the direction of the reflector.

11. In an apparatus of the class described, the combination with a reflector, of a boiler disposed to receive rays from the reflector, said boiler having a pipe coil within the enclosure of which said rays are received against the boiler, said coil being adapted to receive water in transit to the boiler.

12. In an apparatus of the class described, the combination with a reflector, of a boiler disposed to receive rays from the reflector, a pipe coil connected with the boiler and within the enclosure of which the reflected rays are received and a check valve between the pipe coil and the boiler.

13. In an apparatus of the class described, the combination with a concave reflector, of a boiler having a convex surface disposed to receive the reflected rays from the reflector and having projections radiating from its convex face, and a pipe coil connected to the boiler and surrounding said projections.

14. In an apparatus of the class described, the combination with a base frame rotatable in a horizontal plane, of a frame hinged at one end to the base frame, a reflector mounted in the second frame, a body carried by the second frame in position to receive rays from the reflector, and means for varying the angle between the frames.

15. In an apparatus of the class described, the combination with a base frame rotatable in a horizontal plane and supported at its pivot, of a second frame hinged at one edge to the base frame, means for varying the angles between the frames, means for preventing tilting of the base frame, a reflector carried by the second frame and a body to be heated disposed to receive the rays from the reflector.

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

Application No. 4830.—THE FLAMELESS GAS LIGHT COMPANY, LIMITED, of 32 Great St. Helens, London, England (assignee of William Hooker), "Improvements in generating Combustible Vapour, and in regulating the supply thereof."—Dated 15th March, 1904.

Claims:—

1. The method of generating a combustible vapour, consisting in withdrawing the exhaust air from a hot air engine by a blower or like apparatus driven by the latter, the said air being forced by the blower through a carburetter, substantially as hereinbefore described.

2. In apparatus for generating, and controlling the supply of, combustible vapour, the combination of a hot air engine, a blower driven by the said engine and withdrawing the exhaust air therefrom, a storage vessel or holder and a carburetter through which the air is passed for carburation, substantially as hereinbefore described.

3. In apparatus for generating, and controlling the supply of, combustible vapour, the combination of a hot air engine, a blower driven thereby, and which withdraws the exhaust air from the said engine, a carburetter which receives the air from the blower, and a holder for storing the carburetted vapour, the said holder automatically controlling a cock in the supply pipe, substantially as hereinbefore described.

4. In apparatus for generating, and controlling the supply of, combustible vapour, the combination of hot air engine, a blower driven thereby and which withdraws the exhaust air from the said engine, a carburetter which receives the air from the blower, a holder for receiving the carburetted air and a branch pipe from the blower for supplying air for heating the carburetter, substantially as hereinbefore described.

5. In apparatus for generating, and controlling the supply of, combustible vapour, the combination of a hot air engine, a blower driven thereby and which withdraws the exhaust air from the engine, a carburetter which receives the air from the blower, a holder in which the carburetted air is stored and which supplies vapour to the burners and to a burner for heating the hot air engine, and of cocks in the supply

pipes to the holder and to the engine burner, the said cocks being controlled by the sliding bell of the holder, substantially as, and for the purpose, hereinbefore described.

6. The improved apparatus for generating and storing combustible vapour, consisting of the parts constructed, arranged and operating substantially as hereinbefore described and illustrated in the accompanying drawings.

Specification, 8s. Drawings on application.

R. G. FERGUSON,

Registrar of Patents.

Renewal Fees paid on Patents registered from 19th to 26th March, 1904.

Fee payable before the end of the fourth year in respect of the three following years:—

No. 2967.—Hermann Pape.

Applications Abandoned.

MARCH 19TH—26TH.

Application No. 4422.—JOHN TREGERTHEN SHORT, THOMAS FORTH ROTHERAM, and JOHN WHITWORTH SHAW, all of Perth, Western Australia, being respectively Chief Traffic Manager, Chief Mechanical Engineer, and Signal Inspector of the Western Australian Government Railways, "Automatic flag signal staff for use on railways and tramways."—Dated 20th May, 1903.

Application No. 4423.—SANTOS EWALD CONRAD, of 87 Adelaide Street, Fremantle, Western Australia, Electrical Engineer, B.E., "Spiral spark-arrester, principally for locomotives."—Dated 20th May, 1903.

Application No. 4426.—WILLIAM BEDE CHRISTIE, of York, Western Australia, Surveyor and Engineer, "A machine for an improved method of lighting railway carriages or trains and similar vehicles by means of acetylene gas."—Dated 21st May, 1903.

Application No. 4427.—ROBERT REID, of 42 Toorak Road, South Yarra, in the State of Victoria, Commonwealth of Australia, Engineer, "Improvements in and connected with apparatus for generating gas from liquid hydrocarbons."—Dated 21st May, 1903.

R. G. FERGUSON,

Registrar of Patents.

Applications for Patents.

MARCH 19TH—26TH.

[Where Provisional Specification accompanies Application an asterisk is affixed.]

No.	Date.	Name.	Address.	Title.
*4733	22nd Mar., 1904	E. Waters, jun. (<i>Charles Allen</i>)	Melbourne, Vic. ...	An automatic sand and slime separator.
4734	22nd Mar., 1904	Coronel, A. S. (assignee of Wells, R. B.)	Sydney, N.S.W. ...	Improvements in window furniture for holding and suspending sliding sashes.
*4735	24th Mar., 1904	Morrissey, J. H. ...	Perth, W.A. ...	An improved horseshoe.
4736	24th Mar., 1904	Schaefer, C. F. A.; Schaefer, E. G., and Schaefer, P. P. (assignees of Lauer mann, A.)	Wellington, N.Z. ...	An improved composition for the manufacture of stucco ornaments and the like.
*4737	25th Mar., 1904	Moyle, J. ...	Perth, W.A. ...	An improved polish for cleaning brass, copper, silver, and like metals.

Index of Applicants for Patents.

MARCH 19TH—26TH.

Name.	Title.	No.	Date.
Allen, C.	<i>Vide</i> Waters, E., jun. (<i>Allen, C.</i>)	4733	22nd March, 1904
Colonel, A. S. (assignee of Wells, R. B.)	Improvements in window furniture for holding and suspending sliding sashes	4734	22nd March, 1904
Lauermann, A.	<i>Vide</i> Schaefer, C. F. A., and others	4736	24th March, 1904
Morrissey, J. H.	An improved horseshoe	4735	24th March, 1904
Moyle, J.	An improved polish for cleaning brass, copper, silver, and like metals	4737	25th March, 1904
Schaefer, C. F. A.; Schaefer, E. G.; and Schaefer, P. P. (assignees of Lauermann, A.)	An improved composition for the manufacture of stucco ornaments and the like	4736	24th March, 1904
Waters, E., jun. (<i>Charles Allen</i>) ...	An automatic sand and slime separator	4733	22nd March, 1904

Index of Subjects of Patent Applications.

MARCH 19TH—26TH.

Title.	Name.	No.	Date.
Horseshoes	Morrissey, J. H.	4835	24th Mar., 1904
Ornaments	<i>Vide</i> Stucco ornaments	4836	24th Mar., 1904
Polish	James Moyle	4837	25th Mar., 1904
Sand and Slime Separator	E. Waters, jun. (<i>C. Allen</i>)	4733	22nd Mar., 1904
Sashes	<i>Vide</i> Windows	4834	22nd Mar., 1904
Separator	<i>Vide</i> Sand and Slime Separator	4833	22nd Mar., 1904
Slimes	<i>Vide</i> Sand and Slime Separator	4833	22nd Mar., 1904
Stucco Ornaments	Schaefer, C. F. A.; Schaefer, E. G.; and Schaefer, P. P. (assignee of Lauermann)	4836	24th Mar., 1904
Window Sashes	Colonel, A. S. (assignee of Wells, R. B.)	4834	22nd Mar., 1904

Trade Marks.

Patent Office, Trade Marks Branch,
Perth, 1st April, 1904.

IT is hereby notified that I have received the under-mentioned Applications for the Registration of Trade Marks.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form F), of his or their objections thereto, within two calendar months from the date of this *Gazette*.

A fee of £1 is payable with such notice.

In the case of an Application in which have been inserted a statement and disclaimer (or a disclaimer only), a copy of the same is printed in *italics* in connection with the advertisement.

R. G. FERGUSON,
Registrar of Designs and Trade Marks.

Application No. 3065, dated 4th March, 1904.—ANDREW WAKELEY, of Murray Street, Perth, in the State of Western Australia, Poulterer, to register in Class 2, in respect of Chemical Substances used for Agricultural, Horticultural, Veterinary or Sanitary purposes, a Trade Mark, of which the following is a representation :—



Application No. 3068, dated 11th March, 1904.—WILLIS AND SONS PROPRIETARY, LIMITED, of Nos. 277 and 279 Little Collins Street, Melbourne, in the State of Victoria, Australia, Wholesale Jewellers and Importers, to register in Class 14, in respect of Goods of precious Metals, a Trade Mark, of which the following is a representation :—



Application No. 3069, Dated 14th March, 1904.—JAMES PASCALL, LIMITED, of 100 and 101 Blackfriars Road, London, England, Manufacturing Confectioners, to register in Class 42, in respect of Confectionery, a Trade Mark, of which the following is a representation :—



Application No. 3072, dated 15th March, 1904.—MARECHAL RUCHON & COMPANY, LIMITED, of 32 and 33 Hamsell Street, London, England, manufacturers, to register in Class 50, in respect of tobacco pipes and all other articles for smokers included in this class, a Trade Mark, of which the following is a representation:—



Application No. 3073, dated 16th March, 1904.—PETER WOOD, JAMES GARTRELL, and WILLIAM DOUGLAS TAYLOR, trading as "G. Wood, Son, & Co.," of 19 Cantonment Street, Fremantle, to register in Class 42, in respect of substances used as food or as ingredients in food, a Trade Mark, of which the following is a representation:—

VICTORY.

Application No. 3074, dated 16th March, 1904.—ALBANY BELL, of Dangan Street, Perth, to register in Class 42, in respect of Confectionery, a Trade Mark, of which the following is a representation:—

BUTTERCUPS.

Application No. 3075, dated 18th March, 1904.—JOSEPH DAVID WATERS, trading as "The Westral Foundry and Manufacturing Company," of Samson Street, East Perth,

in the State of Western Australia, Ironfounder, to register in Class 18, in respect of Cooking Stoves and Ranges, a Trade Mark, of which the following is a representation:—

WESTRAL.

Application No. 3076, dated 21st March, 1904.—PETER WOOD, JAMES GARTRELL, and WILLIAM DOUGLAS TAYLOR, trading as "G. Wood, Son, & Co.," 19 Cantonment Street, Fremantle, Wholesale Grocers, to register in Class 42, in respect of articles used as food or as ingredients in food, excepting "tea," a Trade Mark, of which the following is a representation:—

GOLDEN WATTLE.

Application No. 3078, dated 22nd March, 1904.—A. BENJAMIN AND COMPANY, of 31 St. Mary Axe, London, E.C., England, Oil, Naphtha, and Liquid Fuel Brokers, to register in Class 4, in respect of Oils, a Trade Mark, of which the following is a representation:—

TURPOLINE.

Renewal Fees paid on Trade Marks from 19th to 26th March, 1904.

Fees payable before the end of the fourteenth year in respect of the following fourteen years:—

- No. 253.—Apollinaris Company, Limited.
- No. 255.—Apollinaris Company, Limited.
- No. 256.—Apollinaris Company, Limited.
- No. 257.—Apollinaris Company, Limited.
- No. 258.—Apollinaris Company, Limited.

Alphabetical List of Registrants of Trade Marks.

MARCH 19TH—26TH.

Name.	Goods.	Class	No.	Date.	Gazette.		
					No.	Date.	Page.
Denver Chemical Manufacturing Company	A composite substance usable as a surgical dressing and for other medicinal purposes	3	2996	31st Dec., 1903	2	8th Jan., 1904	128
Lever Brothers, Limited	Perfumed soap and all other articles in Class 48	48	2994	22nd Dec., 1903	2	8th Jan., 1904	128
Paterson, R., and Sons ...	Essence of coffee with chicory ...	42	2995	30th Dec., 1903	2	8th Jan., 1904	128

Index of Goods for which Trade Marks have been registered.

MARCH 19TH—26TH.

Goods.	Name.	No.	Date.	Class.	Gazette.		
					No.	Date.	Page.
Coffee (essence of, with chicory)	Paterson, R. and Son	2995	30th Dec., 1903	42	2	8th Jan., 1904	128
Composite Substance (usable as a surgical dressing, and for other medicinal purposes)	Denver Chemical Manufacturing Company	2996	31st Dec., 1903	3	2	8th Jan., 1904	128
Soap (perfumed) ...	Lever Brothers, Limited	2994	22nd Dec., 1903	48	2	8th Jan., 1904	128