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## CONTENTS:

SUBJECT.	PAGE	SUBJECT.	PAGE
Complete Specifications accepted ... ..	3209	Alphabetical list of Patentees ... ..	3211
Renewal Fees paid, Patents ... ..	3210	Alphabetical list of Inventions for which Patents have been granted ... ..	3212
Subsequent Proprietors registered, Patents ... ..	3210	Applications for Registration of Trade Marks... ..	3212
Application Abandoned, Patents ... ..	3210	Renewal Fee paid, Trade Mark ... ..	3212
Applications for Patents ... ..	3210	Subsequent Proprietors of Trade Marks registered ... ..	3212
Provisional Specification accepted ... ..	3210	Alphabetical list of Registrants of Trade Marks ... ..	3213
Alphabetical list of Applicants for Patents ... ..	3211	Index of Goods for which Trade Marks have been registered ... ..	3214
Alphabetical list of Inventions for which Patents have been applied for ... ..	3211		

Note.—Throughout this Gazette the names in Italics within parentheses are those of Communicators of Inventions.

### Complete Specifications.

Patent Office, Perth,  
4th December, 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. 4706.—THOMAS HENRY ALEXANDER, of Kensington, in the State of Victoria, Commonwealth of Australia, Engineer, "*Improvements in valve mechanism for reciprocating engines.*"—Dated 20th November, 1903.

#### Claims:—

1. In valve mechanism for reciprocating engines, a rotary valve having oscillating motion, in combination with two cams revolving with the crank shaft and alternately setting the valve for admission of steam to the cylinder and for cut-off and consequent expansion, substantially as described.

2. In valve mechanism for reciprocating engines, two cams which revolve with the crank shaft and are adapted to alternately set the valve for admission and expansion of steam, in combination with means for angularly adjusting the cams upon the shaft for the purpose of reversing the engine and varying the degree of expansion, substantially as described.

3. In valve mechanism for reciprocating engines, a sleeve mounted upon the crank shaft, a cam rigidly connected with the sleeve adapted to actuate an oscillating valve, a sheave revolving with the shaft and engaging with the sleeve, and means for moving the sheave longitudinally of the shaft, so as to rotate the said sleeve and cam relatively to the shaft, all in combination, substantially as described.

4. In valve mechanism for reciprocating engines, the combination for the purposes indicated of the heretofore described parts *a* to *q* for the purposes indicated.

5. In valve mechanism for reciprocating engines, the combination with the heretofore described parts *k* to *m*, of parts *q* and *A*, and means for adjusting said parts *q* and *A*, substantially as described for the purposes indicated.

6. In valve mechanism for reciprocating engines, a crank shaft having a sleeve (*q*), a sheave (*s*) engaging therewith and longitudinally movable on fixed rods (*w*) a second sheave (*A*) mounted upon portion of the first sleeve (*q*), a second sheave (*D*) longitudinally movable on fixed rods (*B*), and two cams, one rigidly connected with each sleeve, to actuate an oscillating valve (*a*) all in combination, substantially as described.

Specification, 8s. Drawings on application.

Application No. 4708.—ARTHUR PERCY RICHMOND, of "Kelvin," Enmore Road, Marrickville, near Sydney, in the State of New South Wales, Commonwealth of Australia, Commercial Traveller, "*Therapeutic apparatus.*"—Dated 23rd November, 1903.

#### Claims:—

1. In therapeutic apparatus, a nest of three cylindrical cells hermetically sealed at each end and enclosing a partial vacuum in which is suspended a dia-magnetic element, as specified.

2. In therapeutic apparatus, a nest of three cylindrical cells closed at the bottom by a cap and at the top by a disc to each cell from which is suspended, in partial vacuo, a dia-magnetic element, a cap above each such closing disc and a nipple in the cap for the passage of a wire, as set forth.

3. In therapeutic apparatus, a nest of three cylindrical cells hermetically sealed top and bottom, a dia-magnetic element suspended in partial vacuo in each cell, a cap over each cell, a nipple in each cap, a connecting wire projecting from each nipple, a flesh disc connected to each wire and a strap or belt to which the flesh discs are attached for binding such flesh discs on to the part to be therapeutically treated, as specified.

Specification, 5s. Drawings on application.

Application No. 4714.—LEONARD SCHADE VAN WE-TRUM, of 90 Wilhelmstrasse, Berlin, Germany, Engineer, at present residing at the Coburg Hotel, Carlos Place, Grosvenor Square, London, England, "*An improved method of road making.*"—Dated 26th November, 1903.

#### Claims:—

Method of road making, more especially macadamised roads and the like, characterised by the fact that as binding material for the materials forming the road surface, such as broken stones, sand, earthy constituents or the like, a solution or emulsion of oily substances such as naphtha, petroleum, tar, and other oils or the like in water is employed for the purpose of obtaining an intimate and permanent binding together of the materials.

Specification, 5s.

Application No. 4715.—HENRY DUNN, of Honeysuckle Street, Bendigo, in the State of Victoria, Commonwealth of Australia, Engineer, "*A compensating weight for attachment to the shanks of stamp batteries.*"—Dated 26th November, 1903.

#### Claims:—

1. The herein referred to compensating weight for attachment to the shank of stamp batteries when the shoe becomes worn, substantially as and for the purpose described and shown.

2. A compensating weight for the purpose specified consisting of a metal weight *A* having a tapered hole *A'* cotter hole *A''* and lifting eye *A'''* combined with the split conical bush *C* fitted and arranged, substantially as described and shown in Figs. 1 and 2.

3. A compensating weight for the purpose specified consisting of a metal weight as *A* having a hole as *A'* through it and the lifting eyes *A'''* combined with the split conical bush *C* fitted and arranged, substantially as described and shown in Figs. 1a and 2.



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## CONTENTS

Applications for the Grant of Letters Patent.