

**International Medical and Sanitary Exhibition, 1881, South Kensington,
Saturday, July 16th, to Saturday, August 13th : official catalogue.**

Contributors

Parkes Museum of Hygiene.
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Royal College of Surgeons of England

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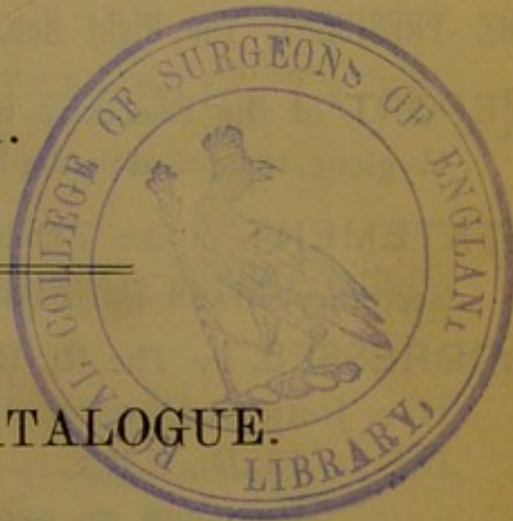


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INTERNATIONAL
MEDICAL AND SANITARY EXHIBITION,

1881.

OFFICIAL CATALOGUE.



INTERNATIONAL
Medical + and + Sanitary + Exhibition,

From JULY 16th 1881 to AUGUST 13th.

OPENING CEREMONY,
ROYAL ALBERT HALL, SATURDAY, JULY 16th.

PROGRAMME.

AT HALF PAST FOUR O'CLOCK,

THE PRESIDENT, The Right Hon. EARL SPENCER, will take the Chair.

REPORT of the Executive Committee of the Parkes Museum of Hygiene, to be read by the Honorary Secretary, Dr. G. V. POORE.

STATEMENT of the Exhibition Committee, to be read by the Secretary, MARK H. JUDGE, Esq.

ADDRESSES, by The Rt. Hon. EARL GRANVILLE, K.G. ; the Rt. Hon. JOHN G. DODSON, M.P. ; and SIR JAMES PAGET, Bart., D.C.L., LL.D., F.R.S.

PRESIDENT TO DECLARE EXHIBITION OPEN.

VOTE OF THANKS to the Rt. Hon. EARL SPENCER, for Presiding, to be proposed by GEORGE GODWIN, Esq., F.R.S., F.R.I.B.A., seconded by JOHN ERIC ERICHSEN, Esq., F.R.S.

THE HUNGARIAN BAND will play in the Arena, and the Picture Gallery, with Fine Arts Collection, will be open for Promenade.

The Exhibition will be open till dusk, and at Six o'clock the Hungarian Band will play in the Conservatory.

PARKES MUSEUM OF HYGIENE.

*International
Medical and Sanitary
Exhibition, 1881,*

SOUTH KENSINGTON,

SATURDAY, JULY 16th, TO SATURDAY, AUGUST 13th.

OFFICIAL CATALOGUE.

London :

PUBLISHED BY THE EXHIBITION COMMITTEE,
PARKES MUSEUM OF HYGIENE, GOWER ST., W.C.

1881.

"THE FREEMASON" PRINTING WORKS, 16, GREAT QUEEN STREET, LONDON.



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P R E F A C E .

IN the Catalogue the Exhibits are classified, and in the Exhibition also, except where classification is impracticable, as, for instance, where one exhibit consists of articles belonging to different Sections.

Nearly the whole of the Medical Exhibits are placed in the Western Gallery, Western Arcade, Western Quadrant, and the Royal Albert Hall; the Sanitary Exhibits are arranged in the Eastern Arcade and Eastern Quadrant, with the exception of the Architectural and other Drawings, which are hung in the Western Gallery.

The numbering of the Exhibits on the western side commences with No. 1 at the entrance in Queen's Gate, and on the eastern side with No. 241 at the entrance in Exhibition Road.

An Alphabetical List, containing the names and addresses of Exhibitors, with their numbers, is given on page 113, and on page 19 will be found a Numerical List of the Exhibitors in the order in which their Exhibits are placed, together with the Sections into they are classified.

On page 30 is given the names of the Exhibitors in the seventeen Sections into which the contents of the Exhibition are divided. In each Section the names are arranged in alphabetical order, and a description of the Exhibits is given.

A further list of the Exhibits in the different Sections, arranged in numerical order, including those received late, will be given in the next issue.

The Table of Contents will sufficiently explain the other parts of the Catalogue.

MARK H. JUDGE.





PARKES MUSEUM OF HYGIENE.

WHEN Dr. Parkes' lamented death occurred in the spring of 1876, it was strongly felt by his professional and personal friends, as well as by those who had known him officially, that some steps should be taken to perpetuate the memory of a man whose life had been of almost unparalleled utility to others. With this object a public meeting was held at University College, London, on June 18th, 1876, under the presidency of Sir William Jenner, Bart., when it was unanimously resolved to establish a Museum of Hygiene, to be called by his name.

"Hygiene," in the words of Dr. Parkes, "is the art of preserving health; that is, of obtaining the most perfect action of body and mind during as long a period as is consistent with laws of life. . . . Taking the word Hygiene in its larger sense, signifies rules for perfect culture of mind and body. It is impossible to dissociate the two." A Museum of Hygiene, then, should contain whatever is of service to prevent disease or induce health.

The idea of establishing a Museum of Hygiene met with considerable favour, and an Executive Committee having been appointed, the subscriptions, headed by a donation of £50 from Majesty the Queen, soon exceeded £1000. This enabled the Executive Committee of the Museum to proceed with their work, but little could have been done had it not been for the liberality of the Council of University College, who, on February 7th, 1877, placed a large room at the disposal of the Committee in which to temporarily arrange the collection. From that time the Museum has grown rapidly, and at present it contains, in addition to a library of some 500 volumes having reference to every science, a large collection of articles illustrative of (1).

Engineering and Local Hygiene. (2.) Architecture. (3.) Furnishing. (4.) Clothing. (5.) Food. (6.) Preservation and Relief.

The Museum was formally opened to the Public on June 28th, 1879, by Sir R. A. Cross, G.C.B., then Secretary of State for the Home Department, and from that date it has been open *gratuitously* to the Public on every Tuesday, Thursday, and Saturday. From January 1st to July 27th, 1880, the number of visitors amounted to 2166, and from August 1st, 1880, to July 1st, 1881, it has amounted to 2540. Since the Spring of 1876, £1525 has been subscribed. Of this sum £600 has been invested, which yields an income of something less than £24 per annum; £851 has been expended in Museum fittings, salaries, and other unavoidable expenditure. The work of the Executive Committee has been entirely gratuitous. No charge has been made to visitors at any time, neither has any charge been made for space, suitability being the only conditions for the acceptance of any article.

The moderate amount of funds at the disposal of the Committee has not deterred them from making the greatest possible use of the Museum. A number of demonstrations and lectures have been given, and these have been very well attended. The first series in the Winter of 1879-80 was given for the benefit of the Working Men's Club and Institute Union, and comprised the subjects of House Drainage, Ventilation, Lighting and Warming, Food, and the Management of the Sick Room. The second series was given to members of the Institution of Builders' Foremen and Clerks of Works, and comprised the subjects of Ventilation and House Drainage. During the past Winter, 1880-81, in response to a suggestion made to the Executive Committee by the "Nineteenth Century Building Society," a course of five lectures was delivered to members of Metropolitan Building Societies. These, which comprised the same subjects as the lectures of the previous year, were attended by numbers so large that the Museum was found barely adequate for their accommodation.

This experience having conclusively shown that the Museum has supplied an existing want, the Executive Committee feel bound to impress this upon the Public, and to ask for that pecuniary assistance which will alone enable them to continue and extend a work so important to the future well-being of the country. While

pointing out the great utility of diffusing a knowledge of the laws of health among the classes upon whose education in such matters the health of the Public so largely depends, the Committee would submit that no really adequate provision for achieving this object will have been made until a suitable building, in an accessible position, has been provided for the Museum. They, therefore, earnestly appeal to all those who recognize the great public advantage that must result from a dissemination of a practical knowledge of the laws of health to aid them in their endeavours to maintain the Museum in a state of efficiency, to continue the lectures and demonstrations which have found so much favour with the public and proved so serviceable to the industrial classes, and finally, in order that the collection and library may be made thoroughly available for teaching and research, to permanently establish the Museum in a building of its own in a central situation.

It is estimated that a sum of £30,000 would suffice to establish the Parkes Museum as a permanent National Institution, and enable the public to enjoy for ever all the advantages which it is capable of affording; and when it is stated that the temporary accommodation hitherto so generously accorded by the Council of University College will not be much longer available, were it even sufficient, and that a new home for the Museum is most urgently needed, the Executive Committee have every confidence that their appeal will meet with a liberal response, and that the means will not long be withheld for raising a memorial building which shall be worthy both of the nation and of the great man whose name the Museum bears.

The Executive Committee invite subscriptions from all classes of the community, which may be forwarded direct to the Treasurer of the Parkes Museum, Professor Berkeley Hill, 55, Wimpole-street, London, W. (Cheques and Postal Orders to be crossed "Union Bank.") During the Exhibition boxes will be placed at the entrances for the Donations of visitors.

THE EXECUTIVE COMMITTEE OF

THE PARKES MUSEUM OF HYGIENE.

July, 1881.

Parkes Museum of Hygiene

(Temporarily Located in University College, Gower Street, London),

FOR THE

Diffusion of a Practical Knowledge of Sanitary Science.

Patrons—

HER MAJESTY THE QUEEN.

H.R.H THE DUKE OF EDINBURGH.

THEIR ROYAL HIGHNESSES

THE PRINCE AND PRINCESS CHRISTIAN OF SCHLESWIG-HOLSTEIN.

H.R.H. PRINCE LEOPOLD, DUKE OF ALBANY.

HIS ROYAL HIGHNESS THE DUKE OF CAMBRIDGE, K.G.

THE BARONESS BURDETT-COUTTS.

MISS FLORENCE NIGHTINGALE.

Executive Committee.

Chairman—Sir WM. JENNER, Bart., M.D., K.C.B., F.R.S.

Treasurer—Professor BERKELEY HILL, M.B., 55, Wimpole Street, W.

Professor W. H. CORFIELD, M.A., M.D.

JOHN ERIC ERICHSEN, F.R.S.

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Capt. DOUGLAS GALTON, C.B., F.R.S.

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ROBERT RAWLINSON, C.B.

J. NETTEN RADCLIFFE.

E. C. ROBINS, F.S.A.

Dr. J. C. STEELE.

Honorary Secretary, Dr. G. V. POORE, 30, Wimpole Street, W.

Curator, MARK H. JUDGE, M.R.S.L., 8, Park Place Villas, W.

THE MUSEUM IS OPEN FREE

On Tuesdays, Thursdays, and Saturdays, from 10 to 2.

Supporters.

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 Professor J. S. BURDON SANDERSON, F.R.S.
 Professor JOHN TYNDALL, F.R.S.
 Professor ERAMUS WILSON, F.R.S. Dr. GEORGE BUCHANAN.
 EDWIN CHADWICK, C.B. JOHN NOBLE.
 CHARLES H. PARKES. THOMAS TWINING.
 &c. &c. &c. &c.

INTERNATIONAL MEDICAL and SANITARY EXHIBITION, 1881.

Patron :—

H.R.H. THE DUKE OF EDINBURGH.

President :—

The Rt. Hon. Earl Spencer, Lord President of the Council.

Exhibition Committee.

Chairman, JOHN ERIC ERICHSEN, F.R.S., President of the Royal College of Surgeons.

Treasurer, Professor BERKELEY HILL, M.B.

THOMAS GREENISH, President of the Pharmaceutical Society.

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G. LUDWIG, M.D.

W. A. MEREDITH, M.B.

EDMUND OWEN, F.R.C.S.

Dr. G. V. POORE.

E. C. ROBINS, F.S.A.

Prof. T. ROGER SMITH, F.R.I.B.A.

Dr. J. C. STEELE.

Secretary, MARK H. JUDGE (8, Park Place Villas, W.)

Honorary Members of Committee.

SIR PHILIP CUNLIFFE OWEN, K.C.M.G., C.B.

Major-General HENRY Y. D. SCOTT, C.B., F.R.S. ROBERT HOGG, LL.D., F.L.S.

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H. BURCKHARDT, M.D., *Stuttgart.*

JOHAN MIKULICZ, M.D., *Vienna.*

JOHN S. BILLINGS, (Surgeon-General),
Washington, U.S.A.

All Communications to be addressed to the Secretary at the Exhibition.



INTERNATIONAL MEDICAL AND SANITARY EXHIBITION, 1881.

REGULATIONS FOR EXHIBITORS.

1.—The charges to Exhibitors will be as follows:—For Floor Space, One Pound per foot frontage with an average depth of six feet. For Wall Space, from Five to Ten Shillings per square yard. Single articles from one Exhibitor will be received at a minimum rate of Five Shillings each, according to size. Portfolios, containing Diagrams, Plans, &c., will be hung against the walls, and may be open to the extent of nine inches; the charge will be according to the wall space occupied, and ten per cent. in addition.

2.—Exhibitors will be required to pay for space on allotment. Except under special circumstances, no allotment of floor space of less than three feet frontage, or more than 20 feet frontage, will be made to any Exhibitor; and not less than one square yard, or more than nine square yards, of wall space.

3.—Applications for space must be made on the Official Form, and be addressed to the Secretary of the Exhibition Committee, Parkes Museum of Hygiene, University College, London, and will not be received later than Thursday, March 31, 1881. From India, the Colonies, and America applications will be received up to Saturday, April 16, 1881.

4.—All applications for space must include a description in writing of the articles proposed to be exhibited, and may be accompanied by printed prospectuses, &c.

5.—All space allotted will be strictly for the exhibition of the articles specified in the application form. The Committee reserve to themselves the right to refuse any article not considered by them as suitable.

6.—The Committee will not be responsible for insurance against fire, or in any way for the safety of any of the articles exhibited; and the cost of conveying goods to and from the Exhibition must be paid by the Exhibitors. Exhibitors or their Agents must at their own cost unpack their exhibits, place them in the place allotted, and repack and remove them at the close of the Exhibition. In default, the articles will be removed and warehoused at the cost of the Exhibitor.

7.—Under the supervision of the Secretary, Exhibitors may erect stands or cases for displaying their Exhibits, but they will be responsible for the removal of these at the close of the Exhibition, and must make good to the satisfaction of the Secretary any damage caused thereby. For machinery in motion, Exhibitors will have to provide gas engines, and the gas will be supplied at a fixed rate of charge.

8.—Every article exhibited shall bear a descriptive label, containing detailed information respecting its constitution or construction, and use. No secret preparations will, under any circumstances, be exhibited.

9.—Exhibitors will be permitted to employ persons to explain their Exhibits, and during the last week of the Exhibition articles may be sold to visitors, but shall not be removed from the Exhibition before the closing day, except when replaced by duplicates. (*The privilege to sell will only be enjoyed by those Exhibitors who have taken floor space.*)

10.—A Catalogue will be published by the Committee. Exhibitors will have the privilege of advertising in this Catalogue on the following terms :—Whole page, £4 ; half page, £2 10s. ; quarter page, £1 10s.

11.—Articles for exhibition will be received at the Exhibition Buildings, South Kensington, from Friday July 1, 1881, to Saturday, July 9, 1881, inclusive, and all articles must be removed from the building by Saturday, August 20, 1881.

12.—The Exhibition will be opened on Saturday, July 16, 1881, and will remain open to Saturday, August 13, 1881, inclusive.

13.—Certificates of Merit will be awarded by specially appointed Judges, whose decision will be final.

14.—The List of Awards will be published, and will also be recorded in the Annual Report of the Parkes Museum of Hygiene.

15.—In order that New Inventions may be protected, the Board of Trade have granted to the Exhibition the privileges of the Protection of Inventions Act, 1870.

By Order,

JOHN ERIC ERICHSEN, F.R.S.,

President of the Royal College of Surgeons, *Chairman.*

MARK H. JUDGE,

Curator of the Parkes Museum of Hygiene, *Secretary.*

February 9th, 1881.

List of Judges.

- | | |
|--|--|
| AITCHISON, GEORGE, A.R.A.,
F.R.I.B.A. | HIGGENS, CHAS., F.R.C.S. |
| ANDERSON, MRS. GARRETT, M.D. | IBBETSON, GEORGE, F.R.C.S. |
| BAXTER, E. BUCHANAN, M.D. | KERR, Prof., F.R.I.B.A. |
| BEALE, LIONEL, F.R.S. | KLEIN, E., M.D., F.R.S. |
| BIRD, C. H. GOLDING, F.R.C.S. | LANKESTER, Prof. E. RAY, F.R.S. |
| BOLTON, Lieut.-Col. FRANK. | LONGMORE, Surg.-Gen., C.B.,
F.R.C.S. |
| BRISTOWE, J. S., M.D. | McKELLAR, A. O., F.R.C.S. |
| BRYANT, THOS., F.R.C.S. | MAHOMED, F. A., M.D. |
| BUCKMASTER, J. C. | MARSHALL, Prof. JOHN, F.R.S. |
| BUXTON, E. NORTH (Chairman of
the School Board for London.) | MEREDITH, W. A., M.B. |
| CANTLIE, JAMES, F.R.C.S. | MOUAT, FRED. J., M.D., F.R.C.S. |
| CARPENTER, ALFRED, M.D. | OWEN, EDMUND, F.R.C.S. |
| CARPENTER, W. B., C.B., F.R.S. | PLAYFAIR, WILLIAM S., M.D. |
| CHAUMONT, Prof. FRANCOIS DE,
M.D., F.R.S. | POORE, G. V., M.D. |
| CHEPMELL, ISAAC DOBREE C., M.D. | POWER, HENRY, F.R.C.S. |
| COLLINS, H. H., F.R.I.B.A. | PRESTWICH, Prof., F.R.S. |
| CORFIELD, Prof. W. H., M.D. | PURVES, W. LAIDLAW, M.D. |
| CRITCHETT, GEORGE, F.R.C.S. | REDWOOD, Prof. T. |
| DALBY, W. B., F.R.C.S. | REINOLD, Prof. A. W., M.A. |
| DUNCAN, Major, R.A. | ROBINS, EDWARD C., F.S.A.,
F.R.I.B.A. |
| DUNCAN, MATTHEWS, M.D.,
F.R.S.E. | SANDERSON, Prof. J. S. BURDEN,
M.D., F.R.S. |
| EASSIE, WM., C. E. | SAUNDERS, EDWIN, F.R.C.S. |
| FARQUHARSON, DR. ROBT., M.P. | SCHAFER, E. A., F.R.S. |
| FAYRER, SIR JOSEPH, K.C.S.I.,
M.D., F.R.S. | SEDDON, J. P., F.R.I.B.A. |
| FIELD, ROGERS, M. Inst. C.E. | SIEVEKING, E. H., M.D. |
| FOSTER, Prof. G. CAREY, F.R.S. | SMITH, P. GORDON, F.R.I.B.A. |
| FOSTER, MICHAEL, M.D., F.R.S. | SMITH, THOS., F.R.C.S. |
| GALTON, Capt. D., C.B., F.R.S. | SMITH, Prof. THOS. ROGER,
F.R.I.B.A. |
| GARROD, A. B., M.D., F.R.S. | SNELL, HENRY SAXON, F.R.I.B.A. |
| GEE, SAMUEL J., M.D. | SQUIRE, PETER. |
| GLADSTONE, Dr. J. H., F.R.S. | STEELE, J. C., M.D. |
| GODWIN, GEO., F.R.S., F.S.A. | THORNE, R. THORNE, M.B. |
| GRANTHAM, R. B., M. Inst. C.E. | TURNER, ERNEST, F.R.I.B.A. |
| GREENISH, THOS. (President of
the Pharmaceutical Society). | WARDROPER, MRS. |
| HART, ERNEST, M.R.C.S. | WATERHOUSE, ALFRED, A.R.A. |
| HAWARD, J. WARRINGTON,
F.R.C.S. | WATTEVILLE, A. DE, M.R.C.
B.Sc. |
| HEATH, CHRISTOPHER, F.R.C.S. | WILLIAMS, JOHN, M.D. |
| HILLS, THOS. HYDE. | WOOD, JOHN, F.R.S., F.R.C.S. |
| | YEO, Prof. GERALD F., M.D. |

Certificate of the Board of Trade.

“BOARD OF TRADE,

“ (RAILWAY DEPARTMENT),

“ LONDON, S.W., 21st June, 1881.

“ MARK H. JUDGE, Esq.,

“ (*Secretary of International Medical & Sanitary Exhibition*),

“ *Parkes Museum of Hygiene,*

“ *University College,*

“ *Gower Street, W.C.*

“ SIR,

“ I am directed by the Board of Trade to acknowledge the receipt of your letter of the 18th instant, and, in reply, to enclose, herewith, their Certificate, under the provisions of the Protection of Inventions' Act, 1870, in respect to the INTERNATIONAL MEDICAL AND SANITARY EXHIBITION proposed to be held at South Kensington from the 16th of July to the 13th of August next.

“ I am, Sir,

“ Your obedient Servant,

“ HENRY G. CALCRAFT.”

“ THE Board of Trade, by virtue and in exercise of the powers conferred upon them by The Protection of Inventions' Act, 1870, do hereby certify that the INTERNATIONAL MEDICAL AND SANITARY EXHIBITION which it is proposed shall be held from the 16th day of July to the 13th day of August, 1881, both days inclusive, at South Kensington, in certain rooms, buildings, and galleries at the Royal Horticultural Society's Gardens, and at the Royal Albert Hall, South Kensington, London, in the county of Middlesex, is in their Judgment calculated to promote British Industry, and to prove beneficial to the industrious classes of Her Majesty's subjects.

“ Signed by order of the Board of Trade this twenty-first day of June, 1881.

“ HENRY G. CALCRAFT,

“ *An Assistant Secretary to the Board of Trade.*”

EXHIBITION GUARANTEE FUND.

The sums in the second column have been advanced for preliminary expenses.

EXECUTIVE COUNCIL OF THE INTERNATIONAL MEDICAL CONGRESS—£50.

	£	s.	d.		£	s.	d.
Atwool, J.	10	10	0	...	2	2	0
Angell, A.	1	1	0	...	1	1	0
Barron, Squire, & Co.	50	0	0	...			
Burroughs, Wellcome, & Co.	30	0	0	...	10	0	0
Beard, Dent, & Hellyer... ..	30	0	0	...	10	0	0
Benham & Sons	20	0	0	...	10	0	0
Bolding, John, & Sons	20	0	0	...	10	0	0
Boyle, Robert, & Son	20	0	0	...			
Barry, John G.	10	0	0	...	2	2	0
Beck, Marcus, F.R.C.S.... ..	5	0	0	...			
Bostel, Daniel Thomas (Brighton)	3	0	0	...	1	0	0
Bullivant, R. Tagliaferro & Co.	2	2	0	...	2	2	0
Buchan, William Paton (Glasgow)	1	1	0	...			
Corfield, Prof. W. H., M.D.	25	0	1	...			
Calvert, F. G. & Co.	10	0	0	...			
Carter, John	5	5	0	...	5	5	0
Cantlie, J., F.R.C.S.	5	0	0	...	2	0	0
Chorlton & Dugdale (Manchester)	5	0	0	...	2	0	0
Chadwick, Edwin, C.B.... ..	5	0	0	...			
Coffin, Walter H.	2	0	0	...			
Doulton & Co.	35	0	0	...			
Davies, Hugh	1	1	0	...	0	10	6
Eassie, William, C.E.	25	0	0	...	10	0	0
Erichsen, J. Eric, F.R.S.	10	10	0	...			
Field, Rogers, M. Inst. C.E.	20	0	0	...			
Fradelle, A. E.	1	1	0	...			
Galton, Capt. Douglas, C.B.	20	0	0	...			
Godwin, Geo., F.R.S.	20	0	0	...			
Glendenning, John	5	0	0	...			
Hardwicke, Dr. Wm. (the late)	5	0	0	...			
Hayward, Tyler, and Co.,	5	0	0	...			
Holt, Henry P. (Leeds)... ..	5	0	0	...			
Hayes, John, C.E.	1	1	0	...			
Johnson, Edmund	10	10	0	...			
Judge, Mark H.	5	0	0	...	1	0	0
Kopp's Extract of Meat Co.	2	2	0	...	2	2	0
Leon. Geo. Isaac... ..	25	0	0	...	5	0	0

Guarantee Fund—continued.

	£	s.	d.		£	s.	d.
Lewis, Prof. T. Hayter, F.S.A.	20	0	0	...	10	0	0
Longstaff, Dr. G. B.	10	0	0	...	2	0	0
Lawson, Maj. Gen. R., Insp. Gen. of Hospitals	5	5	0	...	5	5	0
Lloyd, Thomas (Manchester)	2	0	0	...	1	0	0
Maw, Son, & Thompson... ..	50	0	0	...			
Macfarlane, Walter, & Co.	25	0	0	...			
Manserg, Jas., M. Inst. C.E.	20	0	0	...			
Mouat, Dr. Fredk. J.	5	0	0	...	5	0	0
Meredith, W. A., M.B.	5	0	0	...	2	0	0
Mayer & Meltzer... ..	5	0	0	...			
Maignen. P. A.	5	0	0	...			
Martindale, Wm.	2	0	0	...	1	0	0
Noble, John (Henley-on-Thames)	50	0	0	...			
Nicholls, G. B., C.E.	1	1	0	...			
Poore, Dr. G. V.... ..	25	0	0	...	10	10	0
Paget, Sir James, Bart., F.R.S.	10	0	0	...			
Peggs, J. Wallace, M. Inst. C.E.	5	5	0	...	1	1	0
Pillischer, M.	5	0	0	...	2	0	0
"Plumber and Decorator," Editor of... ..	5	0	0	...			
Pye-Smith, R. J.	1	0	0	...	1	0	0
Rawlinson, Robert, C.B.	25	0	0	...	5	0	0
Robins, Edward C., F.S.A.	20	0	0	...			
Rimmel, Eugene... ..	1	1	0	...			
Sanitary Assurance Association	25	0	0	...			
Sanitary Paint Co., Limited	25	0	0	...	5	0	0
Sanitary Engineering Co.	5	0	0	...			
Snell, H. Saxon, F.R.I.B.A.	25	0	0	...	5	0	0
Savory and Moore	25	0	0	...			
Silicated Carbon Filter Co.	21	0	0	...			
Steele, Dr. J. C.... ..	20	0	0	...	10	0	0
Shone Drainage, Sewerage. & Water Supply Co.	20	0	0	...			
Stiff and Sons	10	0	0	...	2	0	0
Strode & Co.	10	0	0	...	5	0	0
Smith, Prof. T. Roger, F.R.I.B.A.	10	0	0	...			
Smith, T. J. (Hull)	10	10	0	...			
Twining, Thomas (Twickenham)	50	0	0	...	50	0	0
Tonks, Wm. & Son (Birmingham)	25	0	0	...			
Tylor & Sons	20	0	0	...			
Verity, Benjamin	5	0	0	...			
Woollams, W., & Co.	5	5	0	...	2	2	0
Yuill, W., C.E.	2	0	0	...	1	0	0



NUMERICAL LIST OF EXHIBITORS.

Western Gallery.

- No.
- 1 W. J. Hauck,—Sections IX. and XI.
 - 2 Burroughs, Wellcome, and Co.,—Section VII.
 - 3 Savory and Moore,—Sections VII., XI., and XII.
 - 4 S. Maw, Son, and Thompson,—Sections I., VI., VIII., X., & XII.
 - 5 Millikin and Down,—Sections I., II., V., X., and XI.
 - 6 Arnold and Sons,—Sections I., VIII., and X.
 - 7 Ross and Co.,—Section IX.
 - 8 James Swift and Son,—Section IX.
 - 9 C. Wright and Co.,—Sections I., II., V., and X.
 - 10 M. Pillischer,—Sections VIII., IX., and X.
 - 11 J. B. Thistleton,—Section VIII.
 - 12 H. Windler,—Section XI.
 - 13 James Coxeter and Son,—Sections I., V. VI., and VIII.
 - 14 H. Kappeller, jun.,—Section X.
 - 15 Heather Bigg,—Section I.
 - 16a John B. Medland,—Section IX.
 - 16b Professor Labus,—Section X.
 - 16c Professor Pietro Loreta,—Section I.
 - 16d Dr. Loewenberg,—Section I.
 - 16e Dr. Landolt,—Section III.
 - 16f James How and Co.,—Section X.
 - 17 India Rubber, Gutta Percha, and Telegraph Works Co.,
—Section VIII.
 - 18 Paul Metz,—Sections I., VII., and X.
 - 19 Townson and Mercer,—Section X.
 - 20 William Russell,—Sections I. and II.
 - 21 A. Nachet,—Sections III. and IX.
 - 22a J. H. De Bussy,—Section I.
 - 22b Horn and Son,—Section X.
 - 22c Oscar Bjorkbom,—Section VII.
 - 22d Richard Barwell,—Section I.
 - 22e G. P. Philipson, M.D.,—Section I.
 - 23 W. Groves,—Section VIII.
 - 24 Mottershead and Co.,—Sections VII., VIII., and X.
 - 25a Bonifacio Bussadori,—Section I.
 - 25b Dr. Jean Bufalini,—Section X.

- 25c Sir Sherston Baker, Bart.,—Section XVII.
- 25d Dr. Francis Hoeber,—Section XVII.
- 25e Dr. Vajda,—Section X.
- 26 Max Kahnemann,—Section I.
- 27 Dr. Francisco Olivete,—Section II.
- 28 Jules Tabrich,—Section X.
- 29a Dr. Tempest Anderson,—Section III.
- 29b J. Broeker,—Section I.
- 29c William Cowan,—Section X.
- 29d Heaton C. Howard,—Section I.
- 29e Dr. G. J. H. Mackenzie,—Section X.
- 30 Boeckmann and Burmester,—Section X.
- 31 Gauernack and Reinboth,—Section VIII.
- 32 Isaac L. Pulvermacher,—Section VIII.
- 33 Evans and Wormull,—Sections I. and XII.
- 34 Philip William Seymour,—Section VIII.
- 35 Henry Crouch,—Section IX.
- 36 F. D. Darton and Co.,—Sections VI., X., and XVII.
- 37 Matthews Bros.,—Section I. and X.
- 38a Dr. R. Ellis Dudgeon,—Section XI.
- 38b W. Deicke,—Section I.
- 38c Dr. M. Emanuele,—Section X.
- 38d Dr. Robert J. Lee,—Section X.
- 38e August Zemsch,—Section X.
- 38f Dr. Tommaso Tommasi,—Section XII.
- 39 Salt and Son,—Sections VI., IX., and X.
- 40 David Marr,—Sections I. and IX.
- 41 Pickard and Curry,—Sections III. and IX.
- 42 R. and J. Beck,—Sections I. and IX.
- 43 International Society for the Manufacture of Wound-Dressing Materials,—Section I.
- 44 Josef Leiter,—Section XIII.
- 45 Krohne and Seisemann,—Section I., VI., VIII., and X.
- 46 Mayer and Meltzer,—Section I., II., III., IV., V., VI., VIII., X., and XI.
- 47 G. W. Rutterford,—Section IV.
- 48 Smale Bros.,—Section IV.
- 49 Dental Manufacturing Company,—Section IV.
- 50 W. and J. Jamieson,—Section IV.
- 51 Samuel S. White,—Section IV.
- 52 Claudius Ash and Sons,—Section IV.
- 53 John Weiss and Son,—Section I., II., III., IV., V., and VIII.
- 54 T. Worthington, F.R.I.B.A., Architect,—Section XIII.
- 55 Professor T. Roger Smith, F.R.I.B.A., Architect,—Sec. XIII.
- 56 H. Saxon Snell, F.R.I.B.A., Architect,—Section XIII.
- 57 Freehold Cottage Dwelling Company, Limited,—Sec. XIII.
- 58 National Dwellings' Society, Limited,—Section XIII.
- 59 Dr. G. V. Poore, and A. Waterhouse, A.R.A.,—Section XIII.
- 60 Artizans', Labourers', and General Dwellings Co., Limited, Section XIII.

- 61 Mark H. Judge, Architect,—Section XIII.
- 62 E. C. Robins, F.S.A., F.R.I.B.A., Architect,—Section XIII.
- 63 Yeovil Thomason, F.R.I.B.A., Architect,—Section XIII.
- 64 Ernest Turner, F.R.I.B.A., Architect,—Section XIII.
- 65 Lawrence Booth, F.R.I.B.A., Architect,—Section XIII.
- 66 H. G. Brace, A.R.I.B.A., Architect,—Section XIII.
- 67 Coe and Robinson, Architects,—Section XIII.
- 68 M. J. and S. H. Adams,—Sections XIII. and XIV.
- 69 Dr. Thaulow,—Section XIII.
- 70 W. S. Mitchell, M.A.,—Section XIII.
- 71 W. Chisholm, Architect to the Government of Madras,—
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- 72 H. J. Lanchester,—Section XIII.
- 73 Hospital for the Deformed,—Section XIII.
- 74 Albert Bruce Joy,—Section XVII.
- 75 S. Benton,—Section X.
- 76 Professor Nycander,—Section XVII.
- 77 Dr. Von Heinrich,—Section XIII.
- 78 A. Tripier,—Section XIII.
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- 80 S. J. Newman, A.R.I.B.A., Architect,—Sections XIII. and
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- 81 F. E. Jones,—Section XIII.
- 82 H. H. Bridgman, A.R.I.B.A., Architect,—Section XIII.
- 83 W. Eassie, C.E.,—Section XIII.
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- 85 C. O. Ellison,—Section XIII.
- 86 Hastings Association,—Section XIII.
- 87 J. Hayes, M. Inst., C.E.,—Section XIII.
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- 89 M. Bordian,—Section XIII.
- 90 Dr. Jean Baptiste Bastien,—Section XVII.
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- 92 Grantham, Junr., and Denton, Junr.,—Section XIII.
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- 104 Brand and Co.,—Section VII.

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 106 Peter Spence,—Section XV.
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 110 Léon Somzée,—Section XVII.
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 122 A. B. Cortis,—Section VII.
 123 Henrich Karl,—Section VII.
 124 Thos. Marshall,—Section VI.
 125 E. Overman Day,—Section VI.
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 127 E. Loefflund,—Section VII.
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 129 Chesebrough Manufacturing Co.,—Section VII.
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- 152 John Ward,—Sections VI. and XII.
- 153 W. Monk and Co.,—Sections I. and VI.
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- 174 Mann S. Valentine,—Section VII.
- 175 A. and M. Zimmermann,—Section VII.
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- 178 Hooper and Co.,—Section VI. and VII.
- 179 Apollinaris Company,—Section VII.
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- 180b E. A. Schneider,—Section VII.
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- 185 J. Moorhouse and Co.,—Section VII.
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- 188 Genoveva Natural Sparkling Mineral Water Co.,—Sec. VII.
- 189 T. T. Hirst and Co.,—Section VII.
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- 199 Bellthal Brunnen Co.,—Section VII.
- 200 Maltine Manufacturing Co.,—Section VII.
- 201 W. H. Bailey and Son,—Section I.
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- 204 Robinson and Sons,—Section I.
- 205 James N. Davidson,—Section VII.
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- 213 E. Merck,—Section VII.
- 214 Young and Postans,—Section VII.
- 215 G. Van Abbott,—Section VII.
- 216 T. Morsons and Sons,—Section VII.
- 217 Roberts, C., et Cie.,—Sections I., VII., and X.
- 218 Anton Ulbrich,—Section VII.
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- 220 Foster and Gregory,—Section VII.
- 221 Victor Schmidt and Son,—Section VII.
- 222 Dr. Bernard Spitzer,—Section I.
- 223 Dr. Car Giovanni Mazzolini,—Section VII.
- 224 C. H. Burk,—Section VII.
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- 226 Dr. Barda,—Section VIII.
- 227 E. Hilton,—Section VI.
- 228 R. J. Winter and Co.,—Section I.
- 229 F. C. Calvert and Co.,—Section VII.
- 230 Dr. Giambattista Laura,—Section IX.
- 231 P. Bourjeaud,—Section I.
- 232 Mackey, Mackey, and Co.,—Section VII.
- 233 W. H. Lloyd,—Section VI.
- 234 Ellis and Co.,—Section VI.
- 235 Coleman and Glendenning,—Sections VI. and XVII.
- 236 F. W. Brewster,—Section XII.
- 237 W. B. Hilliard and Son,—Sections I., II., III., V., and X.
- 238 Henry Tylor and Son,—Sections VI., XV., and XVII.
- 239 W. J. Bush & Co.,—Section VII.
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 250 Steven Bros. and Co.,—Sections XIII., XIV., and XV.
 251 Walter Macfarlane and Co.,—Sections XIII., XIV., XV., XVI., and XVII.
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 253 Henry Doulton and Co.,—Sections XIII., XV., and XVI.
 254 Beard, Dent, and Hellyer,—Sections XIV., XV., and XVI.
 255 James Stiff and Sons,—Section XIII.
 256 J. Tylor and Sons,—Sections XV. and XVI.
 257 Geo. Jennings,—Sections XV. and XVI.
 258 Robert Boyle and Son,—Sections XIII. and XIV.
 259 Edward Brooke and Sons,—Sections XIII. and XV.
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 263 Edward Warner,—Sections XV. and XVII.
 264 Banner Bros. and Co.,—Sections XIII., XIV., and XV.
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 285 J. C. Humphreys,—Section XIII.
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 304 A. T. Angell,—Section XV.
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 314 *see Appendix.*
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 325 Smith and Barnes,—Section XV.
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 327 C. H. Sharp and Co.,—Sections XIV., XV., and XVI.
 328 Ihlee and Horne,—Sections XII. and XIII.
 329 Hayward, Tyler, and Co.,—Sections XV. and XVI.
 330 Henry Owen,—Section XV.
 331 A. Emanuel and Sons,—Sections XV. and XVI.
 332 Capper, Son, and Co.,—Section XV.
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 340 Bowes Scott, and Read,—Section XV.
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- 351 C. W. Durham,—Section XV.
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 355 Frank W. Clark,—Sections XIV. and XV.
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 357 Crossley Bros.,—Section XIV.
 358 James Wood,—Section XV.
 359 *see Appendix.*
 360 Bellman and Ivey,—Section XIII.
 361 Charles Drake and Co.,—Sections XIII. and XV.
 362 Alfred Walker,—Sections XIII. and XV.
 363 "Eureka" Concrete Co.,—Sections XIII. and XV.
 364 Washington Lyon,—Section XV.
 365 Wortley Fire Clay Co.,—Sections XIII. and XV.
 366 T. J. Constantine,—Section XIV.
 367 Wm. Hellier,—Section XV.
 368 Anthracite Coal Co.,—Section XIV.
 369 M. A. Shaw,—Section XVII.
 370 *see Appendix.*
 371 London Necropolis Co.,—Section XII.
 372 Quirk, Barton, and Co.,—Sections XIII., XIV. and XVI.
 373 House Improvement and Supply Association,—Sections XIII.
 and XIV.
 374 Joseph Constantine,—Section XIV.
 375 Robert H. Griffin,—Section XIV.
 376 S. Lèoni and Co.,—Sections XIV and XV.
 377 Faraday and Son,—Section XIV.
 378 P. Hinckes Bird, F.R.C.S.,—Sections VII., XIV. and XVII.
 379 *see Appendix.*

- 380 Silber Light Co.,—Section XIV.
- 381 Gillow and Co.,—Section XV.
- 382 Ritchie and Co.,—Section XIV.
- 383 C. R. Stevens,—Sections XIV. and XV.
- 384 Thomas Lloyd,—Sections XII. and XIV.
- 385 Gilmore and Clark,—Section XIV.
- 386 H. W. Cooper,—Section XIV.
- 387 J. W. Hayward, M.D., and J. Drysdale, M.D.,—Sections XIII. and XIV.
- 388 James Howorth,—Section XIV.
- 389 C. Kite and Co.,—Section XIV.
- 390 Universal Ventilating Sanitary and Engineering Co.,—Section XIV.
- 391 Comyns, Ching, and Co.,—Section XIV.
- 392 R. Bullivant, Tagliaferro, and Co.,—Section XIII.
- 393 *see Appendix.*
- 394 Russell and Erwin Manufacturing Co.,—Sections XIII. and XIV.
- 395 Robert Adams,—Sections XIII. and XVII.
- 396 Joseph Kaye and Co.,—Section XIII.
- 397 Smith and Turner,—Sections XIII. and XVII.
- 398 E. and J. Gardner,—Section XVI.
- 399 H. Chapman,—Section XVI.
- 400 Spongy Iron Domestic Filter Co.,—Section XVI.
- 401 P. A. Maignen,—Section XVI.
- 402 Silicated Carbon Filter Co.,—Section XVI.
- 403 Matheson and Gardner,—Section XV.
- 404 Feltoe and Sons,—Section VII.
- 405 H. K. Stevens,—Section VII.
- 406 Hutchinson and Co.,—Sections XII. and XIII.
- 407 Roul Bravais,—Section VII.
- 408 *see Appendix*
- 409 Thos. Tapling and Co.,—Section VI.
- 410 Benham and Sons,—Sections VI., XIV., XV., and XVII.
- 411 Chorlton and Dugdale,—Sections VI., XIV., and XVII.
- 412 Musgrave and Co.,—Section XIV.
- 413 Francis Hammond,—Section XIV.
- 414 J. Weeks and Co.,—Section XIV.
- 415 R. Renton Gibbs,—Section XIV.
- 416 Verity Bros.,—Sections XIV. and XV.
- 417 Fredk. Edwards and Son,—Section XIV.
- 418 J. F. Farwig,—Section XIV.
- 419 R. W. Winfield and Co.,—Sections VI., VIII., IX., XIII., XIV., and XVII.
- 420 J. Potter and Sons,—Section XIV.
- 421 Charles Portway and Son,—Section XIV.
- 422 Hobbs, Hart, and Co.,—Section XIII.
- 423 J. L. Bacon and Co.,—Section XIV.
- 424 *see Appendix.*
- 425 A. Smith and Stevens,—Sections XIII. and XIV.

- 426 Strobe and Co.,—Sections IX. and XIV.
 427 Rosser and Russell,—Sections XIII. and XIV.
 428 Longden and Co.,—Section XIV.
 429 Harry Hunt,—Section XIV.
 430 Deane and Co.,—Section XIV.
 431 Radiator Range Co.—Section XIV.
 432 Hooper and Co.,—Sections XIV. and XVI.
 433 J. Defries and Sons,—Sections XIV. and XVI.
 434 } *see Appendix.*
 435 }
 436 The Sun Auto-Pneumatic Lighting and Heating Co.,—Section XIV.
 437 } *see Appendix.*
 438 }
 439 W. Woollams and Co.,—Section XIII.
 440 *see Appendix.*
 441 Thomas Bradford,—Section XVII.
 442 Howard and Sons,—Section XIII.
 443 Fredk. Siemens,—Section XIII.
 444 Wilson Engineering Co.,—Section XIV.
 445 W. J. Fraser and Co.,—Section XV.
 446 }
 447 } *see Appendix.*
 448 }
 449 }
 450 }

Royal Albert Hall.

- 451 St. Bartholomew's Hospital,—Sections I. and VI.
 452 Guy's Hospital,—Sections I. and VI.
 453 St. Thomas's Hospital,—Sections I. and VI.
 454 The London Hospital,—Sections I. and VI.
 455 St. George's Hospital,—Sections I. and VI.
 456 Middlesex Hospital,—Sections I. and VI.
 457 University College Hospital,—Sections I. and VI.
 458 King's College Hospital,—Sections I. and VI.
 459 Westminster Hospital,—Sections I. and VI.
 460 Charing Cross Hospital,—Sections I. and VI.
 461 St. Mary's Hospital,—Sections I. and VI.
 462 New Marylebone Infirmary,—Sections I. and VI.
 463 Royal Free Hospital,—Sections I. and VI.
 464 Children's Hospital,—Sections I. and VI.
 465 Hospitals of the Army and Navy,—Sections I. and VI.
 466 Dr. Louis Grósz de Csátár,—Section X.
 467 The Local Government Board,—Section XIII.
 468 The Director-General of the Army Medical Department,—Section XII.
 469 J. T. Cocking,—Section I.
 470 } *see Appendix.*
 471 }
 472 }



SECTION I.

Surgical Instruments and Apparatus.

Judges.

THOMAS BRYANT, F.R.C.S.

THOMAS SMITH, F.R.C.S.

CHRISTOPHER HEATH, F.R.C.S.

JOHN WOOD, F.R.S., F.R.C.S.

James Allen and Sons. **No. 219.**

Steam Spray Apparatus, price from £3.

Steam Spray Producers for Throat, price 18s.

Rising and Revolving Table and Stands for Spray Producers,
price £3.

Arnold and Sons. **No. 6.**

Surgical Instruments and Apparatus.

W. H. Bailey and Sons. **No. 201.**

Surgical Appliances.

Richard Barwell. **No. 22d.**

Surgical Appliance.—For ligature of arteries in continuity—made
of the Aorta of an Ox.

R. and J. Beck. **No. 42.**

Surgical Instruments.

H. Bell. **No. 126.**

Indiarubber Surgical Appliances.

Enema Apparatus.

Truss Pads. Medical Gloves.

Chest Expanders.

Hospital Bandage and General Surgical Appliances.

Heather Bigg. **No. 15.**

Orthopædic Appliances.

C. Walter Biondetti. **No. 132.**

Surgical Instruments.

P. Bourjeaurd. **No. 231.**

Elastic Stockings, Knee Caps, Thigh Pieces, &c.

J. Broeker. **No. 29b.**

Stupe of Flax.

Bonifacio Bussadori. **No. 25a.**

Urethrotomy Instruments.

J. H. De Bussy. **No. 22a.**

Splints.

J. T. Cocking. **No. 469.**

Surgical Appliances. Poroplastic Felt Spinal Jackets. Surgical Splints and Supports.

Jas. Coxeter and Son. **No. 13.**

Amputation Instruments. Anæsthetic Apparatus. Lithotrites.
Stricture Instruments. Poroplastic Corsets and Splints.

W. Deicke. **No. 38b.**

Instrument for Tapping Pleura and Pericardium, price 15s.

Edwards and Bradley. **No. 207.**

Infant Truss made of Indiarubber. Bandages—Indiarubber.
Ether Inhaler, Detached Well, to hold Sponge and Ether, made
of Indiarubber, Silk, and Metal.

Evans and Wormall. **No. 33.**

Splints made of Cane, Wire, and Iron. Steam Spray Producer,
made of Copper and Brass, price £6 10s.
Hernia Instruments, for radical cure of Hernia, made of Steel.
Price £1 15s.

C. Geffers. **No. 133.**

Artificial Limbs.

J. S. Haywood. **No. 202.**

Surgical Appliances and Apparatus.

Heaton C. Howard. **No. 29d.**

Nasal Instruments. Inflating Nasal Plug for Epistaxis, price 3s. 6d.

W. B. Hilliard and Sons. **No. 237.**

Dr. M. Ewens' Chromic Gut, price 7s. 6d.
Operating Table, price £1 5s. Splint Material.
Carbolic Foot Spray, price £1 8s.
Adams' Spray Machine, price 5s.
Plaster Heater, price 7s. 6d.

HOSPITALS.

ST. BARTHOLOMEW'S HOSPITAL, No. 451.

GUY'S HOSPITAL, No. 452.

ST. THOMAS'S HOSPITAL, No. 453.

THE LONDON HOSPITAL, No. 454.

ST. GEORGE'S HOSPITAL, No. 455.

MIDDLESEX HOSPITAL, No. 456.

UNIVERSITY COLLEGE HOSPITAL, No. 457.

KING'S COLLEGE HOSPITAL, No. 458.

WESTMINSTER HOSPITAL, No. 459.

CHARING CROSS HOSPITAL, No. 460.

ST. MARY'S HOSPITAL, No. 461.

THE NEW MARYLEBONE INFIRMARY, No. 462.

THE ROYAL FREE HOSPITAL, No. 463.

THE CHILDREN'S HOSPITAL, No. 464.

THE HOSPITALS OF THE ARMY AND NAVY, No. 465.

Splints and Apparatus for fractured limbs.

International Society for the Manufacture of Wound Dressing
Materials. No. 43.

Surgical Dressings.

Collections of Lints, Gauzes, Cottons, Catgut, and Wound Dressings.

Dr. Loewenberg. No. 16d.

Nasal Galvano-cautery, Loewenberg's.

Professor Pietro Loreta. No. 16c.

New Apparatus for Perineal Cystotomy.

Max Kahnemann. No. 26.

Surgical Bandages.

Apparatus for Antiseptic Treatment.

Krohne and Sesemann. No. 45.

Surgical Instruments and Apparatus.

J. F. Macfarlan and Co. No. 177.

Appliances and Chemicals for Antiseptic Treatment.

David Marr. No. 40.

Spray Producers.

Surgical Instruments and Apparatus.

Steam Antiseptic Spray Producers.

Antiseptic Dressings and Appliances.

William Martindale. No. 171.

Nasal Syringes for use by the patient without the liquid running
down his arms.

Nasal Douche.

Eucalyptus Gauze.

Matthews Bros. **No. 37.**

Hæmorrhoidal Clamps (Mr. Henry Smith's), price £1 5s.

Cutting Canteries (Mr. Henry Smith's).

Tracheotomy Tubes.

Mouth Gag—Rose's.

Surgical Instruments.

Trusses (Mr. John Wood's) price from £1 10s.

Steam Spray Producers, price from £3 10s.

Lithotomy Tube.

Catheters (silver and German silver).

S. Maw, Son, and Thompson. **No. 4.**

Amputation and Operation Instruments.—Full Army Set in mahogany case.

Field Case.

Portable Field Case.

Set of Operation Knives.

Aspirators and Aspirating Trocars.—

Dieulafoy's, Three Needles.

Dieulafoy's, Ten Needles

Dieulafoy's, for Hospital use.

Potain's, with improved additions.

Trocar.

An assortment of the New Patent Surgical Tubes of Soft Rubber for Throat, Rectum, Vagina, Uterus. Catheters.

Chloroform Inhalers.—Bird's, Clover's, Parker's, Ormsby's, and Burton's.

Drainage Tubing.

Enema Apparatus and Injection Syringes.—

Bennett's Irrigator Reservoir.

A series of Indiarubber bottles.

Higginson's, various patterns.

Stomach pump.

Lithotomy, Lithotripsy, Bladder, and Urethra Instruments.—

Complete Set Lithotomy Instruments.

Complete Set Lithotripsy Instruments.

Bigelow's Instruments—Catheters—Set of 12.

Brodie's.

Duncan's.

Lester's.

Wagstaff's.

Urethrotomes.—

Teevan's.

Thompson's.

Hill's.

Maisonneuve's.

Bougies, Elastic Gum.

Catheters, Elastic Gum.

Thompson's Aspirating Bottle.

Bougies Complete Set of Duncan's.

Minor Operation Instruments.—Portable case, in ivory handles.

Tenotomy Knives, complete set, in case.

Necrosis and Resection set, in case.

Skin Grafting Scissors.

Vaccination Instrument, Cooper Rose's

Vaccination Instrument, Hilliard's.

Vaccination Lancets, various.

Para Rubber Bandages, with selected specimens of the Rubber in its manufactured and unmanufactured state.

Pocket Dressing Instruments.—Two-fold Pocket Case, with improved spring back knives.

Two-fold Miniature Pocket Case, Maw's special pattern.

Three-fold Pocket Case.

Three-fold Pocket Case, complete.

Surgery Basins. Transfusion Apparatus (various).

Syringes for Subcutaneous Injections (an assortment of the latest improvements).

Throat Instruments.—Laryngoscope, Turck's. Laryngoscope, Maw's.

Laryngoscope, Mackenzie's. Tracheotomy, Canula.

Tracheotomy, Split. Tracheotomy, Oscillating Shield.

Insufflator, with plain end.

Insufflator, with Indiarubber ball.

Tongue Depressors, hinged—assorted.

Tongue Depressor, Fraenkels. Throat Syringe.

Trachea Dilators. Mouth Gags. Staphylonyphylax Needles.

Œsophagus Bougies, with Obturator.

Œsophagus Bougie, with Syringe.

Prosser James' Instruments, complete. Guillotines.

Laryngeal Forceps, various sizes.

Tournaquets.—Esmeirch's. Langenbeck's. Maw's.

Mayer and Meltzer. **No. 46.**

Steam Spray Apparatus with Self-feeding Boiler.

Spinal Supports. Galvanic Cauterries.

Lithotrites.

Lithotomy Instruments.

New form of Truss, and other Surgical Instruments and Apparatus

Edward Messter. **No. 128.**

Surgical Instruments.

Paul Metz. **No. 18.**

Surgical Instruments.

Millikin and Down. **No. 5.**

Subcutaneous Syringes, price 16s. 6d. each.

Tracheotomy Instruments. Marrant Baker's Tracheotomy Tubes, price 4s. each.

"Golding Bird's" Trachea Dilator, price 15s.

"Howse's" Flexible Tracheotomy Tube, price 16s. 6d.

"Hale White's" Tracheotome, price 17s. 6d.

"Skate's" Splint and Cradle, combined for extension, price 12s. 6d.

Pocket Dressing Instruments.

"Lucas'" Pocket Case, price £4 18s. 6d.

Gowlland's extra flexible Rectum Bougies (elastic), price 5s. 6d. each.

"Jacobson's" Colotomy Plug, price 7s. 6d. each.

"Sydney Jones'" Parallel Pile Clamp, price £1 2s. 6d.

Bougies-à-Boule, extra flexible, 18s. dozen.

Catheters-à-Boule, price 18s. dozen.

Tapering Catheters for Passing Fine Strictures, price £1 16s. per dozen.

LeGros Clark's Guarded Hernia Knife, price 15s.

Furk's Laryngoscope, with nose rest, price £1 17s. 6d.

Pocket Dressing Instruments.

"Bryant" Pocket Cases, price £6 6s.

"Bryant's" Torsion Forceps, price 7s. 6d. and 8s. 6d.

"Golding Bird's" Pocket Case, price £5 10s. 6d.

Do. Scraper for removing Adenoid Tumours of the Naso Pharynx, price 13s. 6d. each.

Moon's Apparatus for Fractured Jaw, price £2 2s.

"Golding Bird's" Hand Spray Producer, price £1 17s. 6d.

"Bryant's" Shoes for Talipes Varus and Valgus, price 15s. per pair.

W. Monk and Co. **No. 153.**

Operating Chairs.

G. P. Philipson, M.D. **No. 22e.**

The Original McIntyre Splint, invented 1819.

Roberts et Cie. **No. 217.**

Surgical Appliances.

Robinson and Sons. **No. 204.**

Bandages. Cotton Wools.

Cotton and Flax Lints.

Surgical Appliances.

William Russell. **No. 20.**

Elastic Stockings, Silk and Indiarubber, price from 10s. 6d.

Spinal Stockings, price £1 1s.

Salmon, Ody, and Co. **No. 203.**

Trusses, self-adjusting, with Ball and Socket Action, price from 10s.

K. R. Schramm. **No. 170.**

Elastic Gum Surgical Instruments, price 1s. 6d. doz.

Sponge Tents, etc., price to 7s. 6d.

Operation Table, price about £40.

Crutches, price from 15s. per pair.

Beemer's Talipes Shoes, price 7s. 6d. each.

Southall Brothers, and Barclay. **No. 225.**

Ladies' New Sanitary Towels, price 2s. per doz.

Absorbent and Antiseptic Pads and Sheets, price 1s. to 9s. per doz.

Prepared Millboard Splints and Armpieces, price 1s. per lb.

Arm Angles, price 3s. per doz.

Tenax (prepared tarred rope), price 1s. 4d. per lb.

Hospital Strapping, price 7s. per doz. yards.

Bernhard Spitzer, M.D. **No. 222.**

Antiseptic Bandages, used in Hungarian Army, price £1.

J. Weiss and Son. **No. 53.**

Orthopædic Instruments. Splints. Belts. Supports.

Trephining, Necrosis, Resection, and Amputation Instruments.

Staphyloraphy, Lithotomy, and Lithotrity Instruments.

Carbolic Spray Producers.

R. J. Winter and Co. **No. 228.**

Bandages. Lints. Cotton Wools.

C. Wright and Co. **No. 9.**

Benham's Hæmorrhoidal Crusher, price £1 15s.

Benham's Steam Antiseptic Spray Producer, price £1 10s.

Davy's Lever, price 8s. 6d. to 12s. 6d.

Davy's Lion Forceps, price 12s. 6d.

Davy's Continuous Suture Needle, price £2 2s.

Portable Case of Surgeon's Operating Instruments, price £9.

Adams' Knives and Saws for Subcutaneous Osteotomy, price £2 2s.

Young's Paraffin Light and Mineral Oil Co., Limited. **No. 120.**

Paraffin Splints, with cotton wool.





SECTION II.

Obstetric Instruments, &c.

Judges.

MATTHEWS DUNCAN, M.D., F.R.S.E.

WILLIAM S. PLAYFAIR, M.D.

JOHN WILLIAMS, M.D.

E. Diver, M.D. **No. 180f.**

Midwifery Apparatus; an arrangement of belt in two parts, cord and stirrups, for patient's use, price £1 1s.
Also a modification of above, price 10s. 6d.

W. B. Hilliard and Sons. **No. 237.**

Farnier's Forceps, price £4.

Leonard's Speculum, price £1.

Dr. Christie's Antiflooding by Aerostatic Bags, price 10s. 6d.

Dr. Christie's Forceps, price £1 5s.

Dr. Lyon's Tractors, price £1 1s.

Hilliard's Tractors, price £1.

Dr. Leishman's Forceps, price £1.

Dr. Gray's Hysterotome, price £2.

Dr. Reid's Forceps, price £2.

Dr. Whittaker's Forceps, price £3 3s.

Mayer and Meltzer. **No. 46.**

Ovariectomy. Instruments.

Pessaries.

Speculums.

Midwifery Forceps.

Uterine Dilators.

Instruments for Vaginal Fistula.

S. Maw, Son, and Thompson. **No. 4.**

Instruments for Obstetric and Uterine Operations.—

Atthill's Canula for Nitric Acid.

Barnes' Hydrostatic Bags for dilating the Os.

Galvanic Stems, Simpson's.

Hick's Ecraseur.

Heywood Smith's Tumour Forceps.

Heywood Smith's Uterus Scissors.

Lee's Canula for Premature Labour.

Hook, Oldham's.

Meadow's Ecraseur.

Maw's Ecraseur, improved.

Ovariectomy Clamps.

Ovariectomy Trocars. Playfair's Probe.
 Speculums, the latest improvements. Simpson's Sounds.
 Sim's Sounds. Heywood Smith's Sounds.
 Caustic Instruments. Uterine Dilators.
 Obstetric Forceps.—Barnes'. Ramsbottom's.
 Simpson's. Lever's. Barclay's.
 Barnes' and Morgan's Tractors Simpson's Short.
 Abortion Forceps.—
 Oldham's Fine Hook. Symond's Tractor.
 Craniotomy Forceps.—Barnes'. Mathews Duncan's.
 Hall Davis's. Hick's. Simpson's. Kidd's.
 Perforators.—
 Holmes'. Greenhalgh's Oldham's
 Ragby's. Roper's Simpson's.
 Pessaries.—
 Hodge's Meyer's. Schilling's.
 Hewitt's Galabin's Watch Spring.
 Tivank's Thomas's
 Vagina Rests.
 Tampon Holder and Introducer, Barnes'. Tent Holders.

Thomas McIlroy. **No. 162.**

Gynæcological Chair, price from £15.

Millikin and Down. **No. 5.**

Galabin's, Prolapsus Pessary, Vulcanite, price 3s.
 Galabin's, Anteversion do. do. do. 3s. 6d.
 Gervis's Curette, Steel, price 8s. 6d.
 do. Wire Loop and Contractor, price 5s. 6d.
 Galabin's Traction Forceps, price £2 2s.
 Gervis's Craniotomy Forceps, price £1 1s.
 The G.P.'s Midwifery Bag, price £4 5s. 6d.

Dr. Francisco Olivete. **No. 27.**

Obstetric Instruments.

William Russell. **No. 20.**

Pelvic Belts, price from £1 7s.
 Abdominal Belts, price from £1 1s.
 Spinal Belts, price £2 10s. Obstetric Binder, price 10s. 6d.
 Intra Uterine Pessaries, price from 5s.
 do. Stems, price 3s.
 Elastic Retroversion Pessaries, price 3s. 6d.
 Mushroom Pessaries, price 10s. 6d.
 Modified Zwancke's Pessaries, price 2s. 6d.
 Watch Spring Pessaries, price 3s. 6d.
 Dr. Greenhalgh's Pessaries, price from 10s.
 Hodge's do. do.
 Dr. Roth's Ovarian Supporter, price 4s. 6d.
 Dr. Gervis's Retroflexing Pessaries, price 2s.

J. Weiss and Son. **No. 53.**

Gynæcological Instruments.

C. Wright and Co. **No. 9.**

Barnes's Instrument for applying Nitric Acid to the Uterus
price £2 5s. 0d.





SECTION III.

Ophthalmic Instruments.

Judges.

GEORGE CRITCHETT, F.R.C.S.
PROFESSOR G. CAREY FOSTER, F.R.S.
CHARLES HIGGENS, F.R.C.S.
HENRY POWER, F.R.C.S.

Tempest Anderson, M.D. **No. 29a.**
Ophthalmometer, price £6 6s. 6d.

W. B. Hilliard and Son. **No. 237.**
Ophthalmoscope (Dr. Wolfe's), price £1 7s.

Dr. Landolt. **No. 16e.**
Telemeter.

Marratt and Ellis. **No. 97.**
Artificial Eyes, price £2 2s.

S. Maw, Son, and Thompson. **No. 4.**
Eye Instruments.—Complete set of operation instruments.
Douche's Graefes, three patterns. Eyelid retractors.
Critchell's. Bowman's. Graefe's.
Laurence's. Maw's. Probes, Bowman's. Probes, Wattons.
Ophthalmoscopes.—Coccius'. Liebreich's. De Weeker's
Landolt's. Follin's. Forceps, Iris.
Forceps, Cilia. Forceps, Entropium.
Scissors, straight. Scissors, curved.

Mayer and Meltzer. **No. 46.**
Ophthalmic Instruments.

Nachet, A. **No. 21.**
Set of Glasses for Oculists.
Boxes Containing all the Glasses used by Oculists, price £15 10s.

Pickard and Curry. **No. 41.**

Oculist's Trial Case. Test Types for Distant and Near Vision.
Ophthalmoscopes Holmgren's Worsteds.
Astigmatic Clocks. Meridian Delineator.
Critchett's Chart for determining the Field of Vision.
Snellen's Test for Feigned Blindness in One Eye.

J. Weiss and Son. **No. 53.**

Ophthalmic Instruments.





SECTION IV.

Dental Instruments, &c.

Judges.

GEORGE IBBETSON, F.R.C.S.

EDWIN SAUNDERS, F.R.C.S.

CHARLES S. TOMES, F.R.S.

Claudius Ash and Sons. No. 52.

Mineral Teeth.—Made of feldspar and silex, price from £1 per 100.

Dental Rubbers.—Made of Para rubber, price from 9s. per lb.

Stoppings.—Cements made of oxychloride of zinc, amalgams of gold, silver and tin.

Instruments.—Dental turning engine, forceps, barrs, excavators, engine drills and mallets. Made of steel.

Furniture, Tools, &c.—Chairs, cabinets, nitrous oxide gas apparatus, vulcanizers, &c.

Dental Manufacturing Co. No. 49.

Dental Instruments. Mineral Teeth, made of feldspar, &c.

Forceps, made of Steel. Rubbers, made of Para gum and sulphur.

Vulcanizers, made of gun metal and copper.

Lathes, "Double Cone," iron and gun metal.

W. and J. Jamieson. No. 50.

Dental Instruments and Appliances.

Mayer and Meltzer. No. 46.

Dental Instruments.

G. W. Rutterford. No. 47.

Dental Sundries.

Smale Bros. No. 48.

Dental Instruments, Tools, and Appliances.

Mineral Teeth.

Weiss and Son. No. 53.

Dental Instruments.

Saml. S. White. No. 51.

Dental Instruments and Apparatus.



SECTION V.

Aural Instruments.

Judges.

W. B. DALBY, F.R.C.S.

WM. LAIDLAW PURVES, M.D.

Jas. Coxeter and Son. **No. 13.**

Aural Instruments.

W. B. Hilliard and Son. **No. 237.**

Dr. Cassell's Aurist's Case, price £3 15s.

S. Maw, Son, and Thompson. **No. 4.**

Ear and Nose Instruments.—Ear Syringe, Tonybée's.

Ear Syringe, Allen's.

Ear Douches, Weber's (two kinds).

Ear Channel, Brown's.

Ear Forceps (a series of patterns).

Snare, Blake's.

Snare, Wylde's

Politzer's New Apparatus.

Brunton's Aurescope.

Weber's Aurescope.

Ecraseur for Nasal Polypus.

Fraenkel's Nose Dilator.

Hearing Trumpets.

Ear Speculums (assorted patterns).

Eustachian Catheters.

Mayer and Meltzer. **No. 46.**

Aural Instruments.

Millikin and Down. **No. 5.**

Forceps with Movable Blades for Removal of Foreign Bodies, price 8s. 6d.

Gardiner Brown's Air Douche for Inflating the Eustachian Tubes, price 5s. 6d.

Gardiner Brown's Instrument for Removing Foreign Bodies, price 4s. 6d.

Gardiner Brown's Tuning Fork and Method for Estimating the Hearing Power by Comparison with Touch.

Gardiner Brown's Trough for use in Ear Syringing, price 4s. 6d.

J. Weiss and Son. **No. 53.**

Aural Instruments.

C. Wright and Co. **No. 9.**

Gaber's Improved Snare for Aural and Nasal Polypus, price £1.



SECTION VI.

Appliances for the Ward and Sick Room.

Judges.

ISAAC DOBREE CHEPMELL, M.D.
PROFESSOR JOHN MARSHALL, F.R.S.
A. O. McKELLAR, F.R.C.S.
J. C. STEELE, M.D.
MRS. WARDROPER.

James Allen and Sons. **No. 219.**

Fomentation Steamer and Kettle combined, for Bronchitis, price 10s. 6d.
Invalids' and Nursery Baths combined, price £2 10s. to £3 10s.
Foot Warmers for Infants and Invalids, price 10s. and upwards.
Portable Hot Air and Vapour Bath (Iron and Copper), price from £1 10s.
Bronchitis Kettles (Tinned Iron), price 7s. 6d.
Vapourizing Kettle, price 5s.
Ventilating Croup Kettle, price £1 5s.
Inhaler, price 5s. to 6s.

Thomas Allen. **No. 161.**

Bedsteads and Invalids' Tables.

E. J. Alment. **No. 211.**

Appliances for the Ward and Sick Room.

H. Bell. **No 126.**

Appliances for the Sick Room.

Benham and Sons. **No. 410.**

Hospital Bath on noiseless wheels. Hospital Coal Cellarette.
Hospital Cot and Sliding Tray (Children's).
Washstand and Drawers. Clothes Bin.

John Carter. **No. 151.**

Invalid Furniture.—Adjustable couches and chairs, bed rests, and leg rests, made of wood and iron, price from £5 5s.
Bath Chairs. Merlin Chairs. Invalid Carriages.
Bath Chairs with adjustable back and leg rests.
Merlin Chairs, made of wood and iron, price from £5 5s.

Invalid Chairs, Carriage Chairs, Ambulances, Bed Lifts, made of wood, iron, and brass, price from £2 16s. 6d.
Chairs, Invalid Bedsteads, &c., Invalid Bedstead with self-adjusting back and commode arrangement. Commode Chairs, made of iron and wood, price from £4 15s.

Reading Stands and Bed Tables, Patent Literary Machine, and Carter's Patent Bed Tables, made of wood and iron, price from 12s. 6d.

Chorlton and Dugdale. No. 411.

Hospital Furniture, wood and metal.

"Excelsior" Spring Mattress, 6 ft. 2 in. by 2 ft., price £1 13s. 6d.

"Excelsior" Epileptic Bed, 6 ft. 2 in. by 6 ft., price £3 8s.

"Matlock" Bed Rest, price from £1 7s. 6d.

"Matlock" Invalid Couch, price from £4 10s.

"Excelsior" Spring Chair, with adjustable back and leg rest, price from £2 10s.

Combined "Pillow Divider" and Cup Rest, price from 7s. 6d.

Coleman and Glendenning. No. 235.

Couch.—Dr. Roth's Spinal Couch, made of birchwood, horse-hair, wool, brass, and iron, price £6 15s.

Chair.—Dr. Roth's Hygienic Chair, with Glendenning's patent spiral pad, made of birchwood, price 10s. 6d., walnut wood, 15s., oak, £2.

Dr. Roth's Patent Folding Chair, made of oak, price 9s.

J. R. Corsan. No. 130.

Hospital Glass.

James Coxeter and Son. No. 13.

Appliances of the Ward and Sick Room.

F. Darton and Co. No. 36.

Thermometer for Testing Fluids, price 3s. 6d.

E. Overman Day. No. 125.

Feeding Bottle made of glass, india rubber.

E. Diver, M.D. No. 180f.

Bed-pan, with diaphragm to separate excretions.

Appliances for the Ward and Sick Room.

Ellis and Co. No. 234.

Cabinet Turkish Baths.

The "Cabinet" Turkish Bath, made of pine, price £5 10s.

Made of walnut, price £9.

William Hamilton. No. 154.

Invalid Couch.

E. Hilton. **No. 227.**

Appliances for the Ward and Sick Room.

Hooper and Co. **No. 178.**

Air Beds and Cushions.

HOSPITALS.

Charing Cross Hospital. **No. 460.**

Children's Hospital, The. **No. 464.**

Guy's Hospital. **No. 452.**

Hospitals of the Army and Navy. **No. 465.**

King's College Hospital. **No. 458.**

London Hospital, The. **No. 454.**

Middlesex Hospital, The. **No. 456.**

New Marylebone Infirmary, The. **No. 462.**

Royal Free Hospital, The. **No. 463.**

St. Bartholomew's Hospital. **No. 451.**

St. George's Hospital. **No. 455.**

St. Mary's Hospital. **No. 461.**

St. Thomas's Hospital. **No. 453.**

University College Hospital. **No. 457.**

Westminster Hospital. **No. 459.**

Bedsteads and Bedding, and various Hospital Appliances.

Krohne and Sesemann. **No. 45.**

Appliances for the Sick Room.

Edward Lipowsky. **No. 140a.**

Appliances for the Ward and Sick Room.

W. H. Lloyd. **No. 233.**

Requisites for Sick Room.—Bronchitis Kettle, Food Warmer, Hot Air and Vapour Baths in one, made of earthenware, tin, copper, and brass, price, small size, 15s.

Thos. Marshall. **No. 124.**

Feeding Bottles.

Wm. Martindale. **No. 171.**

Antidote Bag, containing stomach pump, hypodermic syringe, and chemical and physiological antidotes for poisons.

Portable Inhaler, for medicating hot moist air for inhalation, does not exhaust the patient, and packs in 7in. by 5in. by 5 in.

Poor Man's Inhaler, cheaper embodiment of principles of above.

Throat Insufflator, with or without elastic bellows, scoop, scraper, and powder bottle.

S. Maw, Son, and Thompson. **No. 4.**

Hospital Ward Thermometers, &c.

Steam and Hand Ball Sprays.—

Desmaurix's.

Maw's, for Carbolic Acid (improved patterns).

Richardson's.

Lee's.

Siegle's.

Clark's.

Dewar's.

Trusses.—

Maw's single and double Circular.

Salmon and Odey's ditto

Maw's single and double, new pattern.

Cole's single and double.

Maw's single and double wire.

Mocmain, single and double

Scrotal, single and double.

Hollow pad truss. Femoral

Hulls, for Prolapsus Uteri.

Children's, single and double.

Mayer and Meltzer. **No. 46.**

Appliances of the Ward and Sick Room.

Thomas McIlroy. **No. 162.**

Invalid Elevator and Fracture Bedstead combined, made to elevate head, and raise knees, etc., price from £2.

Surgical Operating Table, price from £10.

Surgical Operating Table for Hospitals or Consulting Room, walnut wood, price from £15.

Invalid's Wheel Chair, price from £10.

Commode and Chair.

W. Monk and Co. **No. 153.**

Appliances for the Ward and Sick Room.

Invalid Furniture.

Newton H. Nixon. **No. 140e.**

Bed Rest.

Bed Table, of wood and steel.

Bronchitis and Tracheotomy Kettle, made of block tin.

Appliances for the Ward and Sick Room.

John Battishill Parker. **No. 209.**

Revolving Bed, price £5 5s.

Pocock Bros. **No. 156.**

Padded Room.—Panels indestructible and watertight, specially prepared cloth with coating of indiarubber, price 2s. per square foot.

Air Bed, with tubes arranged side by side, forming a mattress with drainage, made of air-proof cloth, price from £2 10s.

Water Bed, with tubes arranged side by side, forming a mattress with drainage, made of water-proof cloth; price from £3 10s.

Air and Water Bed, with tubes arranged side by side, forming a mattress with drainage, made of air and waterproof cloth, price from £4 10s.

Air Bed.—Do. convertible into a couch for invalids by means of a wedge-shaped pillow, which will raise the body to any angle by inflation, airproof cloth, price from £5 10s.

Price's Patent Candle Company, Limited. **No. 119.**

Night Lights. Chamber Candles. Food Warmers. Paraffin.

Salt and Son. **No. 39.**

Bowkett's patent Clinical Thermographs, price £5 5s.

Dudgeon's Pocket Sphygmographs, price £2 12s. 6d.

Bartleet's Miniature Aspirators, price from £3 3s.

Salt and Son's Aluminium Pocket Dressing Cases, price from £3 13s. 6d.

Salt and Son's Hypodermic Syringes, price from £1 5s.

Do. New Portable Chemical Urinary Test Cases, price from £1 5s.

Thomas William Stidolph. **No. 155.**

Invalid Bedstead, made of wood, iron, and flax combined, for Epileptic Patients.

Mattress, linen and hair, price £2 5s.

Ventilating Pillow, to prevent suffocation from lying on face.

Invalid Bedstead, noiseless moving.

Institution or Barrack Bedstead, folding, price £2 17s. 6d.

Bolster for do. price 7s. 6d.

Do. do. price £1 14s. 6d.

Mattress, linen and horsehair, price £1 7s. 6d.

Thomas Tapling and Co. **No. 409.**

Invalid Bedstead, price £5 2s. 6d.

Henry Tylor and Son. **No. 238.**

Hospital Bedsteads, made of brass and iron, price from £1 1s. 6d

Hospital Cot, with varnished Pine Table, made of iron and pine-wood.

Hospital Bedstead Blind, with invalid rest, made of iron, price £2 11s.

Thomas Twining. **No. 96.**

Mesopodium and Crutches, wood.

John Ward. **No. 152.**

Mechanical Invalids' Bed, to raise the invalid to different positions, made of wood, springs, stuffing, price from 22 guineas.

Geo. Wells. **No. 210.**

Feeding Bottle.

R. W. Winfield and Co. **No. 419.**

Metallic Bedsteads, Cots, and Furniture.

Metallic Bedsteads and Cots, adapted to several positions at pleasure, made of iron, brass, and gun metal.



SECTION VII.

Drugs, Disinfectants, Dietetic Articles, and Mineral Waters.

Judges.

E. BUCHANAN BAXTER, M.D.
DR. ROBERT FARQUHARSON, M.P.
A. B. GARROD, M.D., F.R.S.
THOMAS GREENISH.
(President of the Pharmaceutical Society.)
THOMAS HYDE HILLS.
PROFESSOR T. REDWOOD.
PETER SQUIRE.

G. Van Abbott. **No. 215.**

Mineral Waters.

Dietetic Articles.—Chocolate, with Liebig's Extract of Meat, with and without sugar, price 6s. 6d. per lb.

Nutrimentin, made of meat and gluten flour, price 1s. 6d. per tin.

Glycerine Jujubes, with gelatine, without sugar, price 6d. and 1s.

Meat and Vegetable Extracts and Essences.

Hypophosphite of Lime Biscuits. Price 2s. 6d.

Gluten Bread, Biscuits, Flour, Semola, Macaroni, Vermicelli, and Chocolate.

Æsculap Bitter Water Co. **No. 192.**

Mineral Waters.

Chas. Allen. **No. 180d.**

Tine Tine, an antiseptic wash.

Allen and Hanburys. **No. 164.**

Pharmaceutical Preparations.

Medical Dietetic Articles.

Andover Aërated Water Manufactory. **No. 187.**

Glauber Purgative Waters.

Medicinal Aerated Waters

Acid Waters.

Tonic Waters.

Table Waters.

Saccharine Waters.

Antitropic Co. **No. 107.**

Beverages and Dietetic Articles.

Apollinaris Company, Limited. **No. 179.**

Apollinaris Water (Natural). Hunyadi Janos Water (Natural).

Arsenical Water Co. of Court St. Etienne. **No. 194.**

Mineral Arsenical Waters.

Aylesbury Dairy Co., Limited. **No. 112.**

Koumiss. Cow's Milk Fermented. Artificial Human Milk,
prepared by removal of casine from cow's milk. Peptonised Milk.
Milk treated with Liquor pancreaticus. Whey. Milk treated
with rennet.

Battley and Watts. **No. 101.**

Pharmaceutical Preparations, including Liquor Opii Sedat., Liquor
Cinch. Cort., Liquor Secalis.

Bellthal Brünnen Co. **No. 199.**

Mineral Water (Natural)—An acidulated alkaline mineral water.

Peter Hinckes Bird, F.R.C.S. **No. 378.**

Disinfectants.

Oscar Björkbom. **No. 22c.**

Malt Extract.

Blake, Sandford, and Blake. **No. 196.**

Mineral Waters.

John Bonthron. **No. 113.**

Gluten Bread, Biscuits, Flour and Bran.

Brand and Co. **No. 104.**

Beef, Veal, Mutton, Chicken, Turtle, Oxtail, and Albuminous, Teas,
Essences, Broths, and Soups.

Roul Bravais. **No. 407.**

Condensed Milk. Mineral Waters.

Pharmaceutical Preparations of Iron and Quinine.

Burgoyne, Burbidges and Co. **No. 167.**

Vanilline.

Heliotropine.

C. H. Burk. **No. 224.**

Medicated Wines.—Containing pepsine, iron, cocoa, Peruvian bark.

W. J. Bush and Co. No. 239.

Essential Oils—Sandal, &c.

Fruit Essences

Burroughs Wellcome and Co. No. 2.Inhaler for Generating Pure Gas of Chloride of Ammonia, price 12s
Drug Mill (the Enterprise), price £2.

Tincture Press (the Enterprise), price £1.

Compound Drugs and Powders.

Chlorate of Potash, free from Gum or Sugar.

Chloride of Ammonium.

Bicarbonate of Soda.

Bicarbonate of Potash.

Chlorate of Potash and Borax.

Soda Mint.

Dialyzed Iron.

Lanton's Absorbent Cotton, price 1s. oz.

Peptonic Tablets.

Beef and Iron Wine. Hazeline from fresh green bark of Witch Hazel.

Syrup of Hypophosphites.

Hygienic Toilet Water, distilled from the petals of the blossoms of magnolia, rose, orange and violet, with spirit and water, together with the leaves and flowers of other fragrant plants of tropical Florida.

Skin Soap from fine tar, glycerine, olive oil, and soda.

Porous plasters (B.P.).

Hydrate of Bismuth

F. C. Calvert and Co. No. 229.

Disinfectants.

Pharmaceutical Preparations.

Soaps

Canzuch, Bros. No. 182.

Pharmaceutical Products.

E. Chapman and Co. No. 135.

Mineral Water.

Koumiss, Full (made of milk fermented).

Koumiss Medicine. Whey, and Diabetic Bland, consisting of whey.

Chesebrough Manufacturing Co. No. 129.

Preparations of Vaseline.

Vaseline.

Arturo D. Ciullini. No. 95.

Pharmaceutical Preparations.

Condy's Fluid Company. No. 116.

Disinfectants.

Aristide Conti. No. 118.

Chemicals.

Corbyn, Stacy, and Co. No. 173.

Pharmaceutical Preparations. Drugs. Medical Dietetic Articles

J. R. Corsan. No. 130.

Chemists' Fittings.

A. B. Cortis. **No. 122.**

Chloricalcium.

James N. Davidson. **No. 205.**

Medical Dietetic Articles.—Concentrated sweet rennet, made of calf's rennet, spirit of wine, water, price from 6d. per bottle.

Pharmaceutical Preparations.—Emulsions of cod liver oil.

Delacre's Extract of Beef Co. **No. 134.**

Extract of Beef, made of beef only.

W. F. W. Eckell. **No. 114.**

Medical Dietetic Articles.

Evans, Lescher, and Webb. **No. 181.**

Vin Santé, an aërated beverage, made of the Hypophosphites of Lime, Sem. Soda, and Potash.

Feltoe and Sons. **No. 404.**

Lime Juice Cordial. (the "Spécialité.")

Fletcher and Fletcher. **No. 208.**

Chemical and Pharmaceutical Preparations.

Forster and Gregory. **No. 220.**

Pharmaceutical Preparations, including:

Hypophosphites of the Alkalies and Metals.

Indiarubber, Chemicals made of Sulphur, and Metals, and Oxide of Metals.

Refined Sulphur or Brimstone.

Nitro Compounds of Benzole and Napthaline.

Gale and Co. **No. 172.**

Collection of Pharmaceutical Specimens.

E. Gallais. **No. 195.**

Mineral Waters.

St. Galmier Table Water

Rakoyi Aperient Water.

St. Raphael Tonic.

Genoveva Natural Sparkling Mineral Water Co. **No. 183.**

Mineral Waters.

Gerolstein Natural Mineral Water Company. **No. 186.**

Mineral Waters.

Samuel Gulliver and Co. **No. 191.**

Beverages.

Quinine Tonic.

Aërated Waters.

Lemonade.

Lime Juice Champagne.

Ginger Ale.

F. and C. Hancock. **No. 137.**

Machines for mixing Pharmaceutical Preparations.

Harzer Natural Mineral Water Co., Limited. **No. 193.**
Mineral Waters.

T. T. Hirst and Co. **No. 189.**
Mineral Waters.

M. and Leopold Hoff. **No. 190.**
Medical Dietetic Articles.
Malt made by a special process to develop the largest percentage of
Diastase, Cocoa, Sugar, and Pepsin Soup.
Malt Beverage. Malt Concentrated. Malt Chocolate.
Malt Lozenges.

Hooper and Co. **No. 178.**
Mineral Waters.

Jeye's Sanitary Compounds Co. **No. 105.**
Jeye's Disinfectant Soap, made of Naphthaline and Creosote.
Jeye's Sanitary Powder, made of Naphthaline.
Soft Soap, made of Fats and Creosote.

Heinrich Karl. **No. 123.**
Pharmaceutical Preparations.

H. and T. Kirby and Co. **No. 166.**
Concentrated Mixtures for Hospital use.
Ethereal Tincture and Elixirs. Hospital Pills, coated.
Pil Ferri Phosphatis. Eucalyptus Ointment.
Eucalyptus Collodion. Carbolic Acid Ointment.
Suppositories Bougies, &c. Glycerole or Jelly Lozenges.
Glycerine Jujubes.
Medicine Cases for Colonial Travelling, price 6s. to £5 5s.
Thymol Powder for Personal use.
Dietetic Articles. Beef Oatehein, various forms.
Food for Diabetics, Beef and Gluten Flour.
Prepared Haricot Beans.

Kopf's Extract of Meat and Compressed Food, Co. **No. 115**
Extract of Beef. Essence of Beef. Beef Lozenges.
Dietetic Biscuits. Consolidated Soups.
Extract of Tea, Coffee, Cocoa.

J. Paul Liebe. **No. 176.**
Medical Dietetic Articles.

J. and C. Lloyd and Co. **No. 103.**
Medical Dietetic Articles.

Ed. Loefflund. **No. 127.**
Malt Extracts.

J. F. Macfarlan and Co. **No. 177.**

Pharmaceutical Preparations.

Alkaloid Chemicals.

Opium Products.

Chloroform.

Chrysophanic Acid.

Sulphate of Bebeerine.

Salicin.

Mackey, Mackey, and Co. **No. 232.**

Disinfectants.

Chemical and Pharmaceutical Preparations.

The Maltine Manufacturing Co. **No. 200.**

Maltine, made from Barley, Wheat and Oats.

Wm. Martindale. **No. 171.**

Nitro-Glycerine with Alcohol.

Eucalyptus Oil.

Risorim.

Ethidene Dichloride.

Nitrite of Amyl.

Iodide of Ethyl Capsules.

Liquor Jaborandi.

Liquor Ergotæ.

Pastils of Aconite.

Medicated Urethral Bougies of Iodoform, Eucalyptus, Sulphate of Zinc, and Belladonna.

Ointments of Boracic Acid, Glycerole of Lead, and Salicylic Acid.

Sulphate of Soda.

Sodio Magnesium.

Citrate of Potash.

Phosphorus Pills.

Quinine Pills.

Some Rare Alkaloids.

Cav. Giovanni Mazzolini. **No. 223.**

Pharmaceutical Preparations.

E. Merck. **No. 213.**

Medicinal Preparations.

Paul Metz. **No. 18.**

Chemicals, Physical.—Glass Instruments and Apparatus.

Kanoldt's Tamarind Lozenges.

J. Moorhouse and Co. **No. 185.**

Aërated Waters.

Mineral Waters.

T. Morson and Son. **No. 216.**

Chemical and Pharmaceutical Preparations.

Mottershead and Co. **No. 24.**

Medical Dietetic Articles.

Samuel Newman. **No. 136.**

Dietetic Articles.—Johann Hoff's Malt Extract.

Malt Extract, with Sem. and Quinine.

Malt Lozenges, Soups, and Chocolate.

Iron and Chocolate.

Francis Newbery and Sons. **No. 165.**

Pharmaceutical Preparations (from Philadelphia).

Newry Mineral Water Co., Limited. **No. 184.**

Aërated Waters.

Mineral Waters.

Packham and Co. **No. 183.**

Aërated Waters.

Mineral Waters.

August Planck. **No. 121.**

Dietetic Articles.

Henry J. Pratt. **No. 180a.**

Cod Liver Oil Jelly. (Agnew's.)

Price's Patent Candle Company, Limited. **No. 119.**

Hygienic, Toilet, Nursery, and Bath-room soaps.

Oleic Acid. Coco-olein. Brown's and Price's Glycerines.

J. M. Richards. **No. 102.**

Lacto-peptine Powder, Syrup, and Wine, with Strychnia, Bismuth, and Phosphate of Iron.

John Richardson and Co. **No. 163.**

Pharmaceutical Preparations.

Soluble Pearl-coated Pills.

Compact Medicine Chests.

Thymol Soup and Jelly.

Phosphorised Cod Liver Oil (Emulsion).

Compound Pepsine Wine.

Thymol Soap.

Eugene Rimmel. **No. 109.**

Disinfectant.—Aromatic Ozonizer, composed of sawdust of various odoriferous trees, essence of eucalyptus, and various plants of the labiate order.

Aromatic Vinegar. Perfume vaporiser and special compounds for same.

Carbolic and Coal Tar Soap.

Carbolic Dentifrice. Toilet Vinegar.

Roberts et Cie. **No. 217.**

Pharmaceutical Preparations.

The Sanitas Co., Limited. **No. 108.**

Disinfectant and Antiseptic Fluids. Oil, powder, soap, and toilet articles. Ointments and antiseptic gauge.

Savory and Moore. **No. 3.**

Dietetic Articles.

Fluid Meat.

Pepsine.

Pancreatic Emulsion.

Infants' Food.

Drugs and Chemicals, including Medical Gelatine Preparations.

Carbolic Acid Vaporiser, specially designed for disinfecting purposes, made of metal, price 7s. 6d. each.

- W. H. Schieffelin and Co. **No. 169.**
Pharmaceutical Preparations.
- Edward Albert Schneider. **No. 180b.**
Liquid Essence of Beef, for sea use and home use.
- Victor Schmidt and Son. **No. 221.**
Drugs.
- Henry and Leigh Slater. **No. 206.**
Disinfectant Paper Blanket ("Chartaline"), price from 2s. each.
- T. and H. Smith and Co. **No. 168.**
Opium Products. Alkaloids. Pharmaceutical Preparations.
- Southall Brothers and Barclay. **No. 225.**
Cod Liver Oil. Soluble Meat.
Sea Salt.—The Aquarium Sea Salt for Baths.
- Henry, King Stevens. **No. 405.**
Flitwick Natural Mineral Water.
Do. do. Carbonaceous Powder.
Do. do. Porous Peroxide of Iron.
Do. do. Carbonaceous Peroxide of Iron.
- Anton Ulbrich. **No. 218.**
Pullna Bitter Waters (Natural).
- Mann, S. Valentine. **No. 174.**
Dietetic Articles.
The Victoria Bitter Water Co. **No. 198.**
Aperient Waters.—Natural Water as drawn from spring.
- Thomas Waller and Co. **No. 249.**
Soaps.
- J. P. Wilson. **No. 180c.**
Lactate of Lead Liniment.
Syrup of Protochloride of Iron.
- Young and Postans. **No. 214.**
Medicated Effervescent Granules.
Phosphorised Cod Liver Oil. Antiseptics.
- A. and M. Zimmermann. **No. 175.**
Chemicals for Medical Use, including Chloral Hydrate, Croton Chloral, Tannic, Gallic and Pyrogallie Acids (sublimed), Salicylic Acid (crystallised), Salicine, Salts of Quinine, Cinchonine and Cinchonidine, Potassium Bromide, and Iodide, Essential Oils.



SECTION VIII.

Electrical Instruments and Appliances.

Judges.

C. H. GOLDING BIRD, F.R.C.S.
PROFESSOR G. V. POORE, M.D.
PROFESSOR A. W. REINOLD, M.A.
A. DE WATTEVILLE, M.R.C.S., B.Sc.

Arnold and Sons. **No. 6.**

Electrical Instruments.

Dr. Barda. **No. 226.**

Electrical Bath Apparatus.

Jas. Coxeter and Sons. **No. 13.**

Electrical Instruments and Appliances.

Gauernach and Reinboth. **No. 31.**

Electrical Apparatus.

W. Groves. **No. 23.**

Medical Batteries.

The Indiarubber, Gutta Percha, and Telegraph Works Company, Limited. **No. 17.**

Leclanche's Medical Batteries.

Krohne and Sesemann. **No. 45.**

Electrical Instruments.

S. Maw, Son, and Thompson. **No. 4.**

Electrical Instruments.

Mayer and Meltzer. **No. 46.**

Galvanic Batteries and Appliances.

Mottershead and Co. **No. 24.**

Batteries.

M. Pillischer. No. 10.**Electrical Instruments.****I. L. Pulvermacher. No. 32.**

High Tension Electric Chain Batteries, price £4 4s.

Pocket Batteries, price £5 5s.

Voltaic Chain Bands. Electrodes.

Electrolytic Dosometer for measuring Voltaic Current, price 5s.

P. W. Seymour. No. 34.

Magnetic Appliances for Chest, Abdomen, and Spine.

Permanent Steel Magnets with movable poles, price 2s. 6d.

Electro Magnet with pole changer.

Galvanic Battery.

J. B. Thistleton. No. 11.

Electrical Apparatus—Continuous Current Batteries, 20, 30, and 40 cell, with modified dial collectors for selection of any cell, composed of brass, mahogany, indiarubber, carbon, zinc, and glass, price from £4 4s.

Du Bois Reymond Induction Apparatus, with 3 secondary coils, and automatic interrupter, made of copper, brass, steel, iron, ebonite, and mahogany, price from £13 13s. each.

Interrupted Current Apparatus, various, price from £1 1s. each.

Galvano Cantery with accessories (Professor Brine's) composed of ebony, steel, platinum, porcelain, and brass, price from £4 4s. each.

Small and large Absolute Galvanometers, divided as suggested by M. de Watteville, composed of agate, steel, brass, copper, and mahogany, price from £1 5s. each.

Portable Tangent Galvanometer (2 coils).

Circular Dial Wire and Water Rheostats, composed of German silver, ebonite, and brass, price from 2s. each.

Current Reverser, De Watteville's, Alternator and Combiner, made of brass, ebonite, mahogany, and nickel, price from £1 12s. 6d. each.

Interrupting Handles, made of brass, mahogany, and ivory, price from 6s. each.

Disc and Olivary Carbon Electrodes, various, made from carbon, leather, brass, and amadou, price from 1s. each.

Rheophores of various forms for continuous and induced currents, made of copper, gutta percha, and silk, price from 1s. 6d. per pair.

Electrodes for applying static electricity, made of nickel, brass, and glass, price from 2s. 6d. each.

J. Weiss and Son. No. 53.**Galvanic Batteries.****R. W. Winfield and Co. No. 419.**

Copper Wire of high conductivity for electric purposes.



SECTION IX.

Microscopes and Optical Apparatus.

Judges.

LIONEL BEALE, F.R.S.

W. B. CARPENTER, C.B., M.D., F.R.S.

E. KLEIN, M.D., F.R.S.

PROFESSOR E. RAY LANKESTER, F.R.S.

E. A. SCHAFER, F.R.S.

R. and J. Beck. **No. 42.**

Microscopes.

Henry Crouch. **No. 35.**

Microscopes.

Ophthalmic Instruments.

Trial Glasses.

W. J. Hauck. **No. 1.**

Optical Instruments.

Dr. Giambattista Laura. **No. 230.**

Microscopic Sections.

David Marr, **No. 40.**

Microscopes.

J. B. Medland. **No. 16a.**

Cabinet for Microscopical Specimens, price £1 1s.

Microscope Companion, price £1 7s. 6d.

New Object Cabinet, price 5s.

Nachet, A. **No. 21.**

Microscopes.—Models for Students, price from £6.

Pickard and Curry. **No. 41.**

Microscopes.

M. Pillischer. **No. 10.**

Optical Instruments.

Microscopes, Accessory Apparatus, and Object Glasses.

Ross and Co. **No. 7.**

Microscopes, price £6 6s.

Microscope Object Glasses, price £1 11s. 6d.

Microscope Illuminating Apparatus, price 5s. to £5 10s.

Illuminators, Reflectors, Micrometers.

Salt and Son. **No. 39.**

Pocket Clinical Microscope for Urinary Examination.

Strode and Co. **No. 426.**

An Oculist's Universal Gas Bracket, made of Brass and Glass.

James Swift. **No. 8.**

Microscopes and Microscopical Apparatus, price from £5 5s. to £41.

R. W. Winfield and Co. **No. 419.**

Brass and Copper Wire. Tubes for Surgical Instruments and Microscopes.





SECTION X.

Appliances used in Teaching Medicine, and other Medical Apparatus.

Judges.

J. S. BRISTOWE, M.D.

SAMUEL J. GEE, M.D.

J. WARRINGTON HAWARD, F.R.C.S.

EDMUND OWEN, F.R.C.S.

Arnold and Sons. **No. 6.**

Apparatus used in the Investigation of Disease.

Beneke, Professor **No. 94.**

Diagrams exhibiting the relative size in health and constitutional disease in different ages.

Boeckmann and Burmester. **No. 30.**

Medical Apparatus.

Samuel Benton. **No. 75.**

Diet Chart.

Carl Berg. **No. 140b.**

Chemical Apparatus.

Dr. Jean Bufalini. **No. 25b.**

A Plessimeter, price 100 francs.

William Cowan. **No. 29c.**

Vaccination Shield, made of wire and cotton, for adults and babies.
price 6d. to 2s. and 2s. 6d.

Vaccination Shield.

Gyenis Grosz de Csatar. **No. 466.**

Medical Apparatus.

F. Darton and Co. **No. 36.**

Clinical Thermometer.

Dr. M. Emmanuele. **No. 38c.**

An Auto-Stethoscope.

W. B. Hilliard and Son. **No. 237.**

Dr. Whittaker's Stethoscope.

Horn and Son. **No. 22b.**

Digitorium for finger practice in cases of Paralysis, Rheumatism
price £2 10s.

James How and Co. **No. 16f.**

Apparatus for estimating Urea by means of Hypobromite of
Sodium.

Dr. Isenschmidt. **No. 140d.**

Model of the Larynx for Teaching.

Henry Kappeller. **No. 14.**

Thermometers, Clinical.

Krohne and Sesemann. **No. 45.**

Appliances used in teaching medicine.

Prof. Labus. **No. 16b.**

Appliances used in teaching medicine.

Rob. J. Lee, M.D. **No. 38d.**

Inhaler. Steam Draft and Regulating Lamp, made of metal.
Inhaler.

G. H. Mackenzie, M.D. **No. 29e.**

Respirators, price 10s. 6d.

Matthews, Bros. **No. 37.**

Stethoscopes (Dr. Hicks'), price 3s. 6d. each.

Mayer and Meltzer. **No. 46.**

Diagnostic Instruments.

S. Maw, Son, and Thompson. **No. 4.**

Instruments for Diagnosis and General Research. Clinical Ther-
mometers.

Maw's Lenticular, with indestructible indices, a series of
patterns in cases.

Surfaces, by Dupire. Surface, by Granville.

Sphygmograph, Mahomed's

Stethoscopes, Binaural, single chest piece. Binaural, double
chest piece.

Binaural, with single and double chest pieces combined.

Barron's Billing's Burrow's ebony.

Burrow's ebony and ivory. Dobell's
 Fergusson's cedar. Fergusson's walnut.
 Fergusson's walnut and ebony.

Stethoscope's. Hughes'. Stoke's cedar.
 Stoke's, with percussion ring. Walsh's, hollow.
 Walsh's, solid. Metallic, with ebonite plate.
 Metallic, with speculum combined. Trabes.
 Vulcanite. Vulcanite, portable for pocket.

Urinary Test Case and Stands. Maw's open stand.
 Maw's closed stand. Maw's Vulcanite "registered"
 Maw's Laboratory. Dobell's Sediment Collector.

Thomas McIlroy. **No. 162.**

Post-mortem Table or Anatomical Weighing Table, in Walnut,
 price £75.

Paul Metz. **No. 18.**

Kanoldt's Inhalation Instrument; price 10s. 6d.

Millikin and Down. **No. 5.**

Palmer's Binaural Stethoscope and Caliper combined, price £1 5s.
 Mahomed's Chest Measure, price 6s. 9d.

Mottershead and Co. **No. 24.**

Chemical Glass.

Richd. Neale, M.D. **No. 98.**

Chemical Lung as a punkah, made of a solution of caustic soda
 or potash

M. Pillicher. **No. 10.**

Apparatus used in the Investigation of Disease.

Dr. Charles Renner. **No. 180e.**

Specimen of Calf Lymph.

Roberts et Cie. **No. 217.**

Medical Apparatus.

Salt and Sons. **No. 39.**

Portable Stethoscope; price from 7s. 6d.

Salt's Portable Vaccine Case, with tablets; price 12s. 6d.

Jules Tabrich. **No. 28.**

Anatomical Models.

Townson and Mercer. **No. 19.**

Chemical Apparatus.

Graduated Instruments.

Dr. Vajda. **No. 25e.**

Urethral Apparatus.

H. Wordsworth and Co. **No. 140c.**

Respirators.

C. Wright and Co. **No. 9.**

Dr. Morton's Portable Urinary Test Case, price 18s. 6d.

Dr. Alexander's Portable Urinary Test Case, price £1 10s.

August Zemsch. **No. 38e.**

Inhalation Apparatus.





SECTION XI.

Physiological Instruments.

Judges.

MICHAEL FOSTER, M.D., F.R.S.

F. A. MAHOMED, M.D.

PROF. J. S. BURDON SANDERSON, M.D., F.R.S.

PROF. GERALD F. YEO, M.D.

Dr. R. E. Dudgeon. **No. 38a.**

Pocket Sphymograph, made of metal, brass, steel, and wood, price £2 12s. 6d.

W. J. Hauck. **No. 1.**

Physiological Instruments.

Mayer and Meltzer. **No. 46.**

Physiological Instruments.

Millikin and Down. **No. 5.**

Golding Bird's Apparatus for Anæsthesia, price 12s. 6d.

Guy's Nasal Ether Inhaler, price 15s.

Savory and Moore. **No. 3.**

Chemical Cabinet for analysis of air and water, designed] by Professor Parkes, made of wood and metal.

H. Windler. **No. 12.**

Physiological Apparatus, Pneumatic Apparatus, Polygraphion, price £35.



SECTION XII.

Street Ambulances and other Appliances used for the Treatment of Sick and Wounded.

Judges.

JAMES CANTLIE, F.R.C.S.

MAJOR DUNCAN, R.A.

SURGEON GEN. LONGMORE, C.B., F.R.C.S.

E. H. SIEVEKING, M.D.

F. W. Brewster. **No. 236.**

Life Saving Apparatus, with covers and cloaks, cork or air tubes, covered with variety of materials, price from £3 3s.

Director General of the Army Medical Department (lent by). **No. 468.**

Specimens of various forms of Ambulance from the Museum of the Military Medical School at Netley.

Evans and Wormall. **No. 33.**

Ambulance Bag; all requirements for first dressing of wounds, price £3 3s.

John Furley. **No. 158.**

Two-wheeled Ambulance Litter, with removable stretcher and waterproof cover, weight 1 cwt., made of wood, iron, or canvas, price £10 10s.

Support Elastique, to form bed for stretcher, made of wood and steel, price £1 5s.

Hungarian State Railway (Lewis de Folnay, Director).
No. 111.

Case of Medical and Surgical Apparatus for use in case of Railway Accidents, price £30.

A. Hutchinson and Co. **No. 406.**

Life Saving Mattrass.

Life Saving Seat Cushion, for ship's use.

Thlee and Horn. **No. 328.**

Luminous Life Buoys.

H. and T. Kirby and Co. **No. 166.**

Miniature Dispensaries, made of wood, leather, and glass, price from £2 10s.

London Necropolis Co. **No. 371.**

Patent "Earth to Earth" Coffin.

S. Maw, Son, and Thompson. **No. 4.**

Appliances used for the Treatment of Sick and Wounded during War.

Thomas McIlroy. **No. 162.**

Portable Invalid Carrying Chair, price £2 10s.

Order of St. John of Jerusalem. **No. 157.**

St. John Ambulance Wheeled Litter.—Stretcher can be detached from wheels without removing patient, made of wood, metal, and canvas, price £16.

John Richardson and Co. **No. 163.**

Medicine Chest.

Savory and Moore. **No. 3.**

Medicine Chests, various, including one specially manufactured for the Physician to the Khedive of Egypt, price £1 1s.

Regulation Medicine Chest, designed for use in H.M. Army, made of wood and metal.

Medical Field Panniers, designed for field use in H. M. Army, made of hide and wicker-work.

Medical Field Companion, with water bottle, made of hide and wicker-work.

Surgical Haversack, with water bottle, specially arranged for the first dressing of wounds, made of waterproof cloth.

St. John's Ambulance Association. **No. 159.**

Folding Stretcher, weight 23lbs., price £2 2s.

Hamper in Waterproof Case, for use in factories and large establishments; and Knapsack, for use of volunteers and others, fitted with articles required in rendering first aid to the injured.

Folding Stretchers, price £2 2s.

Hamper in Waterproof, containing articles for first aid to the injured, price £2 2s.

Knapsack.

Samuel Stretton, M.R.C.S. **No. 160.**

Bier for under-carriage, acting also as grave barrier, made of wood, metal, and leather, price from £4.

Dr. Tommaso Tommasi. **No. 38f.**

A Belt, which can be used for producing artificial respiration.

Thomas Twining. **No. 96.**

Mesopodium.

John Ward. **No. 152.**

Carrying Chair, made portable for travelling, to carry an invalid up and down stairs, made of wood and cane, price from £5 5s.

Brighton Chair, made of wood, iron, cloth, and leather, price from £33 12s.

Self Propelling Chair.—For the invalid to wheel from room to room without assistance, made of wood and morocco, spring stuffing, price from £10 10s.





SECTION XIII.

Domestic and Hospital Architecture.

Planning, Construction, Decorative Materials.

Judges.

SIR JOSEPH FAYRER K.C.S.I., M.D., F.R.S.,
GEORGE AITCHISON, A.R.A., F.R.I.B.A.
FRED. J. MOUAT, M.D., F.R.C.S.
EDWARD C. ROBINS, F.S.A., F.R.I.B.A.
P. GORDON SMITH, F.R.I.B.A.
PROFESSOR THOMAS ROGER SMITH, F.R.I.B.A.
HENRY SAXON SNELL, F.R.I.B.A.
ALFRED WATERHOUSE, A.R.A.

Robert Adams. No. 395.

Spring Door Hinges, compensating and adjustable, made of brass, steel, and iron. Single action from 15s. each, double action from £1 4s.

Sash and Casement Fasteners (Patent), made of brass, steel, and iron.

Anti-Accident Reversible Window (Patent).

Locks and Lock Furniture, made of iron, brass, wood, and china.

Casement Watertight Sill Bars, made of brass and indiarubber, price about 6s. per foot lineal.

M. J. and L. H. Adams. No. 68.

Drawings of "Quick Charging" Syphon.

Drawings of "Pneumatic" Sewer Ventilator.

Albissima Paint Co., Limited. No. 300.

"Sanitary Paints," made from zinc.

Artisans' Labourers', and General Dwellings Co., Limited
(Rowland Plumbe, F.R.I.B.A. Architect). **No. 60.**

Architectural Drawings.—Artisans' Houses.—First-class House, Eight Rooms, Front and Back Parlour, Kitchen, and Scullery, with Larder, w.c., and Dustbin on the ground floor, and Three Bedrooms, w.c., and Bath Room on floor above, rents 13s. 6d. including rates and taxes.

Second-class House, Seven Rooms, Front and Back Parlour, Kitchen, and Scullery, with Larder, w.c., and Dustbin on the ground floor, and Three Bedrooms on the floor above, 10s. per week, including rates and taxes.

Third-class House, Six Rooms, Parlour, Kitchen, and Scullery, with Larder, w.c., and Dustbin on the ground floor, and Three Bedrooms on the floor above, 8s. 6d. per week, including rates and taxes.

Fourth-class House, Five Rooms, Parlour, Kitchen, and Scullery, with Larder, w.c., and Dustbin on the ground floor, and two bedrooms on floor above, 7s. 6d per week, including rates and taxes.

Fifth-class now being built.

Plan of Shaftesbury Park Estate, Battersea.

Plan of Queen's Park Estate, Kilburn.

Banner Bros. and Co. **No. 264.**

Models and Plans of System of Sanitation.

Bellman and Ivey. **No. 360.**

Parian Cements.—Scagliola marbles.

Lawrence Booth, F.R.I.B.A. **No. 65.**

Hospital Plans.

Plans for Dwellings.

M. Bordian. **No. 89.**

Plans of Public Buildings.

Robert Boyle and Son. **No. 258.**

Drawings of Complete System of Ventilation for Dwelling Houses.

Henry G. Brace, A.R.I.B.A. **No. 66.**

Plans of Dwellings.

Plans of System of Ventilation.

H. H. Bridgman, A.R.I.B.A. **No. 82.**

Drawings.—View of Marble Cooling Room, the Camden Turkish Baths.

Engraving.—Plans and Sections of the Camden Turkish Baths.

Ground Floor Plan, Section and View of proposed Hydropathic Establishment, Bournemouth.

The Briton Ferry Coal and Pottery Company, Limited. **No. 252.**

Chimney Tops, Copings, Damp Proof Courses, Flue Linings, Terra-cotta Ware.

Edward Brooke and Sons. **No. 259.**
Enamelled Bricks.

John Bryden and Sons. **No. 303.**
Bellhanging Apparatus (Mechanical and Electric).—Bells, pulls, and side levers, made of brass and copper.
Electric Indicators, made of wood and brass.
Hoists.—Overhead machinery with endless rope, made of wood, iron, and gun metal.
Gates.—Apparatus for opening and closing, made of iron, price £4
Window Sashes.—Apparatus for opening and closing pivot sashes in hospitals, under control of attendants only, as supplied at Edinbro' Infirmary, made of iron, price 10s. 6d.
Cords and Pullies for opening and closing usual sashes, made of brass and cord, price 7s. 6d.

William Paton Buchan. **No. 261.**
Diagram of Anti-Bell Trap (Buchan's Patent).
Diagram of Open Air Channel Style of Fitting Soil Pipes and Waste Pipes (Buchan's).
Diagram of Sectional or Isolation System of House Drainage (Buchan's).

R. Bullivant, Tagliaferro and Co. **No. 392.**
Window, to Prevent Accidents.—Sliding sashes easily removable for cleaning or painting, made of deal, oak, and zinc, 1s. 2d. per foot super.

Candy and Co. **No. 301.**
Bricks.—Damp proof, gray or bath-stone colour, known as "Devonshire Gray's," price £1 17s. 6d. per 1,000.
Brown Glazed, for Sanitary and Building Purposes, price £2 10s. per 1,000.
White Terra-Cotta (Plain and Ornamental), price £2 10s. per 1,000.
Paving.—Decomposed granite and stoneware clay, price £2 15s. per 1,000.
Fire and Fire-resisting Material, made from fire clay and free silica, combined.

W. Chisholm. **No. 71.**
Hospital Plans.—Plans of New Lying-in Hospital, Madras, constructed on the pavilion system. The Central Block contains the Labour Wards, and covered passages unite this block with the remaining four pavilions. Each floor of each pavilion is complete in itself, with nursery and scullery, and no communication is supposed to exist between floor and floor in the pavilions. At the back of the building, and constructed apart, are cottages for contagious diseases.

Messrs. Coe and Robinson. **No. 67.**

Plans of West Herts Infirmary, Hemel Hempstead.

Plans of South Devon and East Cornwall Hospital, Plymouth.

Doulton and Co. **No. 253.**

Art Ware.—Hand-made Articles in stoneware and farence.

Charles Drake and Co., Limited. **No. 361.**

Marble Concrete Floor, Marble Tiles, Polished Concrete Walls.

John Drysdale, M.D. (in conjunction with J. W. Hayward, M.D.). **No. 387.**

Model of House, Illustrating a Plan of Ventilating by Warm Air.

William Eassie, C.E. **No. 83.**

Drawings of the various arrangements for the performance of Cremation erected in different countries up to the present time.

C. O. Ellison. **No. 85.**

Plans of Hospital, suitable for special treatment of Eye Diseases, arranged to secure easy and economic working and entire separation of Out and In-door patients.

“Eureka” Concrete Co. **No. 363.**

Concrete Gas Detector, Block, and Pipe (Patented), with drawings, showing method of laying.

Concrete.—Model of stable shewing method of laying “Eureka”

Concrete, price from 8d. per superficial foot.

Ordinary Flooring, price from 6d. per foot

J. Finch and Co. **No. 302.**

Glazed Bricks, made of Fireclay, Bisque Glaze, price from £13 2s. 6d.

Freehold Cottage Dwellings Co., Limited. **No. 57.**

Plans of Workmen's Cottage Dwellings, six different classes, costing to build in brick, from £150 to £285, or in Haughton's patent concrete, from £135 to £255.

Captain Douglas Galton, C.B., F.R.S. **No. 84.**

Plans of Herbert Hospital, Woolwich.

Grantham, Junr., and Denton, Junr. **No. 92.**

Drawings of designs for Abattoirs.

Hastings' Association (W. L. Vernon, Architect). **No. 86.**

Plans and Photographs of Hastings and St. Leonards, with statistics relating to their climate, health, water supply, drainage, &c.

John Hayes, C.E. **No. 87.**

Plans of project for Supplying London with Sea Water on Haye's patent system.

Dr. Von Heinrich. **No. 77.**

Plans of the Roman Baths at Vienna.

H.M. First Commissioner of Works. **No. 99.**

Ordnance Survey Maps of the different health resorts of the United Kingdom.

Hobbs, Hart, and Co. **No. 422.**

Locks and Lock Furniture and Fittings. Locks adapted for asylums, hospitals, prisons, and general purposes, made of iron, steel, and wood.

Safes and Iron Doors, for various purposes, made of iron, steel, and wood.

Henry P. Holt, C. E. **No. 260b.**

Models illustrating Sanitary Arrangements.

Plans of Sanitary Arrangements.

The House Improvement and Supply Association, Limited.
No. 373.

Plans for Dwellings. Plans of Sanitary Arrangements.

Howard and Sons. **No. 442.**

Parquet Flooring (Patent). Impervious to dust or dirt. Oak, walnut, mahogany, &c. Price from 6s. per superficial foot.

James Charlton Humphreys. **No. 285.**

Galvanized Iron Roofing. Price 3s. per sheet 6 ft. long by 2ft. 2 in. Iron Hospital, with air chamber throughout, made of match boarding, felt, and galvanized corrugated iron. Price from 3s. per superficial foot of floor space covered.

A. Hutchinson and Co. **No. 406.**

International Impermeable Gas Tube, made of indiarubber and its compounds, covered with woollen twill, leather, leather cloth, woven cotton, worsted silk.

Speaking Tubes. International Tube, made of indiarubber, covered with woollen twill, woven worsted, woven silk.

Ihlee and Horne. **No. 320.**

Luminous Ceilings for Hospitals.

Luminous Paints, including Aërated Varnish, Balmain's Luminous Paint, Luminous Boards for Lanterns, Luminous Leather Cloth, Model Cottage, painted with Balmain's Luminous Paint.

W. Ingham and Son. **No. 266.**

Chimney Pieces formed of Glazed Bricks.

Glazed Bricks and Hearths.

Francis E. Jones. **No. 81.**

Drawing of Hospital on the Circular Ward System.

Mark H. Judge, Architect. **No. 61.**

Plans of Three-roomed Dwellings for Artisans and Labourers, on the same area as that occupied by an ordinary house. These plans provide two separate and distinct dwellings, each having a separate street-entrance, scullery, yard, and offices.

Drawing for Fireplace Trimmer.

Joseph Kaye and Co. **No. 396.**

Locks and Latches (Kaye's Patent) for doors of every description, made of metal. Price from 6d. each and upwards.

Lock Furniture (Kaye's Patent Spindle), made of wood and metal. Price from 1s. per set.

H. J. Lanchester. **No. 72.**

Drawings of Waterproof Facing Bricks, to be made of earthenware. Price to cost from £3 per 1,000.

Josef Leiter. **No. 44.**

Medical Appliances.

Maguire and Co. **No. 282.**

Corrugated Sheet Iron, oxidized by Professor Barff's process, price about £16 per ton.

Thomas Lloyd. **No. 384.**

Staircase Model, made of wood.

The Local Government Board. **No. 467.**

Plans of various Hospital Buildings.

Walter Macfarlane and Co. **No. 251.**

Ridgings, Terminals, Railings, Panels, Stairs, Balconies, Dust Bins.

Middlesex Sanitary Association. **No. 265.**

Plans of Sanitary Arrangements.

Wm. Stephen Mitchell, M.A. **No. 70.**

Plans of Nice, Cannes, San Remo, and Mentone, showing the lines of the public égouts.

Frederick J. Mouat, M.D. **No. 91.**

Hospital Plans.—Perspective view, with plans and sections of hospital at Montpellier, now in course of construction, with arrangements for 600 beds, capable of being enlarged to 750. Also a hospital for 320 beds, to be erected in the immediate neighbourhood of Paris, on the same system. Designed by M. Tallet.

National Dwellings Society, Limited. **No. 58.**

Plans of Blocks of Artisans' Dwellings, erected in Great Eastern-street, Shoreditch, E.C., and Peel-street, Kensington, W.

National Hospital for the Deformed. **No. 73.**

Drawings representing plans, elevations, and sections of new buildings proposed to be erected in Great Portland-street for the National Hospital for the Deformed (late National Orthopædic Hospital), also showing system of drainage and ventilation.

Samuel J. Newman, A.R.I.B.A., Architect. **No. 80.**

Drawing of Drinking Fountain recently erected at Winchester.

Dr. G. V. Poore and A. Waterhouse, A.R.A. **No. 59.**

Plan for the Re-construction of University College Hospital on its present site.

G. E. Pritchett, F.S.A., F.R.I.B.A., Architect. **No. 248.**

Form of Building Construction, with Indented Ventilation Pipes, made of clay-ware and cement.

Quirk, Barton, and Co. **No. 372.**

Sheet Lead (Patent).—Tin-lined sheet lead, made of lead and pure block tin, price £2 5s. per cwt.

Sheet Lead.—Laminated lead, price £1 4s. per cwt.

William Ramsey. **No. 352.**

Stained and Leaded Glass.

Glass.—Cast, rolled, blown, pressed, cut, engraved, etched, silvered, bevelled, composed of chrysolite, Derby spar sand and ashes.

Paint Solution, Ivory Enamel, made from zinc white solution of lees.

Tiles, made of opal glass.

Lantern Panels. Door Panels.

Edward C. Robins, F.S.A., Architect. **No. 62.**

Premitted design for the Hampstead Infirmary (Pavilion System).

Design for the North Staffordshire Hospital. Simple form of the Pavilion system, V-formed windows, to enable patients in bed to see out of window.

Alternative Design for the Coventry and Warwickshire Hospital.

Premitted Design for the London Orphan Asylum, to which £150 was awarded. The Pavilion principle adapted to an Orphan Asylum.

Design for a Metropolitan Workhouse and Infirmary.

Design for the example of the "Hall passage" system, City of London School.

Rosser and Russell. **No. 427.**

Mode of Glazing.

Russell and Erwin Manufacturing Co. **No. 394.**

Door Locks and Furniture.—Window Pullies, Electric Stroke Bells, bolts, hinges, sash fasteners.

The Sanitary Appliance Co., Limited. **No. 88.**

Drawing of Dry Closet.—Self-acting ash screening closet (Morrell's Patent).

The Sanitary Paint Co. **No. 289.**

Paints and Colours.—Enamel Paints, Griffith's Patent White, Petrifying Liquids, Silicate Distemper, Silicate Paints, Varnishes.

Fredk. Siemens. **No. 443.**

Model of Crematory Apparatus.

The Silicate Paint Co. **No. 287.**

Paints and Colours.—Charlton White, Oils, Pulp Colours for Paper Stainers, Silicate Distemper, Silicate Enamels, Silicate Paints, Varnishes.

Professor T. Roger Smith, F.R.I.B.A., Architect. **No. 55.**

Hospital Plans.

Thos. Smith and Co. **No. 269.**

Damp-Proof Courses.

Archd. Smith and Stevens. **No. 425.**

Sill Bars and Casement Bolts.—Weathertight, made of brass, copper, and nickel, price 7s. 6d. each.

Door Knobs and Locks, in one piece, made of wood, brass, iron, steel, and nickel, price 10s. 6d. each.

Door-spring Hinges, self-closing, made of brass, iron, and steel, price £1 15s. each.

Smith and Turner. **No. 397.**

Door Springs.—Double action, adjustable, regulating (Ben Turner's Patents), made of iron, brass, gun metal, and steel, price from 17s. 6d. each.

Single action, adjustable and regulating, price from 7s. each.

Water Bars, (Smith's Patent), made of steel, brass, and iron, price from 18s. per set, two sashes complete.

Bolts.—Espagnolette, made of steel, brass, and iron, price from 3s. 3d. per foot.

H. Saxon Snell, F.R.I.B.A., Architect. **No. 56.**

Designs for Charitable and Parochial Establishments.

Clerkenwell Mortuary.

Hendon Union Lunatic Ward.

Holborn Union Infirmary.

Industrial School for 437 Children.

Industrial School for 628 Children.

Kensington District Schools.

Lodgings for Houseless Poor at Nijny Novgowl.

Metropolitan Convalescent Institution—Plans.

Patriotic Fund Boys' School.
 St. George's Union Infirmary.
 St. George's Union Workhouse.
 St. Luke's Workhouse—Plans.
 St. Luke's Workhouse—Views.
 St. Marylebone Infirmary.
 St. Marylebone New Casual Wards.
 St. Marylebone Northern Dispensary and Relief Station.
 St. Marylebone Southern Dispensary and Relief Station.
 St. Marylebone Swimming Bath.
 St. Marylebone Temporary Casual Wards.
 St. Marylebone Workhouse Infirm Wards.
 St. Olave's Union Infirmary.
 Thermhydic Fireplaces—Details.
 Water Closets, Sinks, Baths, &c., for Sick Wards—Details.
 Window Sashes for Sick Wards.
 Workhouse Infirmary, A, with Circular Ward.

Spence's Metal Manufacturing Co. **No. 354.**

Specimens of Spence's Metal as used for joining gas and water pipes; for fixing iron railings; for repairing and re-covering roofs; and for lining tanks.

Steven Brothers and Co. **No. 250.**

Iron Railings.	Columns.	Balusters.	Verandahs.
Rain Pipes and Gutters.		Railings and Gates.	
Finials and Weather Vanes.		Ornamental Staircases.	

James Stiff and Sons. **No. 255.**

Art Stoneware.—Large Etruscan Vase, coloured and salt glazed, made of various clays and colours, price £21.

Three Water Filters, etched and coloured, made of various clays and colours, price from £3.

Group of Vases, Tankards, Bowls, Jugs, Cruets, &c., made of various clays and colours, price from 3s.

The Thames Bank Iron Co. **No. 280.**

Iron Skirting. Roof for Laundry, showing gear for ventilating.

Yeoville Thomason, F.R.I.B.A., Architect. **No. 63.**

Plans of Sanitary Arrangements.

Dr. Thaulow. **No. 69.**

Photographs and Plans of the Sanatorium Modum and Sandefjord.

W. Tonks and Sons. **No. 242.**

Door Chains and Bolts (Patent) for securing doors when shut and when open a little way for ventilation, made of metal, price from 1s. 6d. each.

Steel Ribbon Sash Lines (Hookham's Patent) for securely hanging heavy sashes, made of metal, price from 3d. per foot.

Wedge Casement Stays (Patent) for fastening casements by means of wedged-shaped arms, made of metal, price 1s. 3d. each.

Fanlight Opener and Fastener (Currall's Patent) for fastening fanlights at any distance by pulling a cord, made of metal.

Keyed Door Furniture (Patent) with the patent key fitting into shoulder of knob, for securing it to the spindle of the lock, made of metal, glass, china, and wood, price, from 3s. 4d. per set.

Flush Bolts, with Hayward's registered knob, for preventing the second folding door being locked when the first door is not bolted, made of metal, price, from 5½d each.

Window Fasteners (Hopkinson's Patent) with shoulder on arm for tightly wedging instruments with which the window is attempted to be opened, made of metal, with knobs of brass, china, and wood, price, from 6½d each.

Sash Openers and Fasteners (Patent) for automatically fastening the windows when shut and when slightly open for ventilation, and for opening large windows with cords, made of metal, with cords, price 16s. per set.

Sash Fasteners (Patent) for automatically fastening windows when shut and when slightly open for ventilation, made of metal, price 4s. 10d. per set.

Dr. A. Tripier. **No. 78.**

Ventilation.—Plans for the ventilation of theatres and hospitals.

Ernest Turner, F.R.I.B.A., Architect. **No. 64.**

Hospital Plans. Plans for House Drainage.

Plans for Steam Laundry.

Drs. Waiz Brothers. **No. 79.**

Plans of the Baths at Roncegno.

Thos. Waller and Co. **No. 249.**

Drawings of Sanitary Arrangements. Model of Hospital.

Alfred Walker. **No. 362.**

Concrete Building Material. Concrete Flooring.

Fredk. Walton and Co. **No. 288.**

Wall Decorations.—Lincrusta Walton, Daelves, Fillings, Friezes, Borders, Panels, &c., made of oxidized linseed oil and wood fibre price, from 6d. per yard.

R. W. Winfield and Co. **No. 419.**

Decorative Work for Building Purposes.—Metallic and tiled paneling for external and internal walls of buildings, made of copper, earthenware, stone, marble, iron, and wood.

Brass, Copper, and Tin Tubes. Copper Tubes lined with tin.

Wm. Woollams and Co. **No. 439.**

Wall and Ceiling Papers.—Bright colours and neutral tints, free from arsenic, paper size, flock, and non-arsenical pigments, price from 3d. per yard.

Thos. Worthington, F.R.I.B.A., Architect. **No. 54.**
Hospital Plans. Plans for Dwellings.

The Wortley Fire Clay Co. **No. 365.**
Glazed Bricks, white and coloured, made of Leeds Clay.





SECTION XIV.

Ventilating, Lighting, and Warming.

Judges.

H. H. COLLINS, F.R.I.B.A.
CAPTAIN DOUGLAS GALTON, C.B., F.R.S.
GEORGE GODWIN, F.R.S., F. S. A.
ERNEST HART, M.R.C.S.
PROFESSOR KERR, F.R.I.B.A.
J. P. SEDDON, F.R.I.B.A.

M. J. and S. H. Adams. **No. 68.**

Drawings of System of Ventilation.

The Anthracite Coal Company, Limited. **No. 368.**

Anthracite Smokeless Coal, as raised, not manufactured, price from £1 1s. per ton.

J. L. Bacon and Co. **No. 423.**

Heating Apparatus, coil cases, Renaissance design (Registered), made of cast iron, price £12 12s.

Gothic Design, cast iron, price £7 4s.

Perforated, wrought iron, £5.

Glass Vessel, with patent non-freezing fluid.

Drawings, showing system of heating and ventilating.

Model of skirting, showing arrangement of hot-water pipes, concealed behind ornamental gratings, with stop valve to shut off a portion, made of cast iron, wrought iron, gun-metal, and wood.

Furnace complete, with coil as used for hot water apparatus, made of wrought iron, cast iron, and fire-brick.

Knotted pipe, showing possibility of bending to suit any requirement; made of wrought iron.

Coil, bent cold, wrought iron.

Standards, for carrying pipes around rooms, made of cast iron.

Banner Bros. and Co. **No. 264.**

Ventilators.

Beard, Dent, and Hellyer. **No. 254.**

Cowls.

Benham and Sons. **No. 410.**

Ventilator and Cold Air Grating (War Department pattern).

Ventilating Globe Light (Benham's) fitted with ventilating pipes, cold air inlet, and valve.

Gas Fire (Dr. Seimen's) Anglo-German Porcelain Stove.

Hospital Ward Kitchen, Hot Plate and Oven (gas and coal).

Independent Hospital Cooking Apparatus for coal and wood fires (Benham's) as made for military hospitals.

Peter Hinckes Bird, F.R.C.S. **No. 378.**

Ventilator Inlets (models) made of wood, glass, and linen.

Ventilator Outlet (model) made of zinc.

Daniel T. Bostel. **No. 268.**

Cowl.

Robert Boyle and Son. **No. 258.**

No. 27. System of Ventilating Steamships, &c. (Boyle's), made of wood and galvanized iron, price £1.

No. 26. Vertical Tubes.—Vertical Tubes for admission of fresh air; made of wood and galvanized iron, price £1.

No. 23. Chimney Cowls, galvanized iron.—(Boyle's patent) for preventing a blow down, price £1 15s.

No. 24. (Boyle's patent) for preventing a blow down, and also to assist the up draught in sluggish chimneys, to fit 9in. diameter pot, price £1 10s.

No. 25. Do. with a base 14in. by 9in., price £1 15s.

Ventilators, made of Galvanized iron:

No. 1. Ornamental Gothic, price £15.

No. 2. Ornamental Gothic, for ventilation of churches, price £15.

No. 3. Ornamental Gothic, for ventilation of schools, price £14.

No. 4. Ornamental Design No. 2, for ventilation of halls and public buildings, price £13.

No. 5. Ornamental Ventilator for museums, price £26.

No. 6. Ornamental Design No. 1, for billiard rooms and dwelling houses.

No. 7. Plain Ventilator for cottages and workmen's houses, price £3 10s.

No. 8. Ventilator for hospitals and infirmaries, price £5 5s.

No. 9. Plain Ventilator for warehouses, workshops, factories, &c., £7.

Nos. 10. 11, 12 and 13, Specimens of Air Pump Ventilators.

No. 14. 10in. Soil Pipe Ventilators for 3in. and 4in. pipe, price £1 12s. 6d.

No. 15. 8in. Soil Pipe Ventilators for 2in. to 3in. pipe, price £1 5s.

- No. 16. 12in. Water Closet Ventilator for 4in. pipe, price £2 2s.
 No. 17. 14in. Drain Ventilator, 4½in. pipe, price £2 12s. 6d.
 No. 18. 16in. Sewer Ventilator, 5in. pipe, price £3 10s.
 No. 19. 18in. do. do. 6in. pipe, price £4 10s.
 No. 20. 10in. Double Action Soil Pipe Ventilator, for 3in. to 4in. pipe. £2 5s.
 No. 21. Ship Ventilator, price £6.
 No. 22. Yacht Ventilator, price £3.

Wm. Paton Buchan. **No. 261.**

- Ventilators.—Self-acting, Induced Current, Fixed Ventilator.
 No. 1 pattern, 9in. diameter for 4in. soil pipes, &c. (Buchan's patent) made of metal, price £1 4s.
 No. 2 pattern, 13ins. diameter, for 6in. pipe (Buchan's patent) metal, price £1 19s.
 No. 3 pattern (model), 7½ins. diameter (Buchan's patent) metal, price double that of No. 2 pattern of same size.
 Ventilator for Railway Carriages (Buchan's patent), metal, price from £16.

Chorlton and Dugdale. **No. 411.**

- Stoves.—“Sunlight” Cooking Stove, of iron, price £5 5s.
 “Sunlight” Heating Stove, made of iron, price from £3 5s.
 Hot-water Apparatus.—Safety Stove Coil for baths, lavatories, &c., with syphon safety cylinder complete, made of metal.
 Cooling Utensils.

Frank W. Clark. **No. 355.**

- Gas Engine. Gas Lamps. Atmospheric Burners.
 Portable Gas Machine.—An apparatus for manufacturing gas from gasoline by the aid of heat generated by the machine itself.

Joseph Cliff and Sons. **No. 270.**

- Fireplaces. Fenders. Stoves.

Comyns, Ching, and Co. **No. 391.**

- Ventilators (Thomas Boyle's patent).—Turret, outlet, mica valves, made of iron, brass, zinc, and mica, price from £2 10s.
 Chimney Breast Outlet, mica valves, price from 4s. 6d.
 Inlet Rotary Disc Deflector, made of iron, brass, zinc, and copper, price from 6s. 6d.

Joseph Constantine. **No. 374.**

- Heating Apparatus.—Convolute Stove (patent), made of cast iron, price £40.

T. J. Constantine. **No. 366.**

- Cooking Apparatus.
 “Treasure” Smoke Consuming Cooking Ranges, price from £1 10s.

With wrought iron high pressure circulating Steamer Boiler, price £22.

"Treasure Stoves," enamelled, price from £1 10s.

H. W. Cooper. **No. 386.**

Glass Ventilators.

Crossley Bros. **No. 357.**

"Otto" Silent Gas Engine.

Dean and Co. **No. 430.**

Register Stove.—Side flues for burning anthracite, and for curing smoky chimneys, made of iron and fire brick, price from £3 3s.

J. Defries and Sons. **No. 433.**

Glass Globes for Lamps.

John Drysdale, M.D., and Jno. W. Hayward, M.D. **No. 387.**

Model of Dwelling House, illustrating system of self-acting Ventilation by suction power, made of ordinary building materials

Fredk. Dyer. **No. 307.**

Hot Water Apparatus.

Fredk. Edwards and Son. **No. 417.**

Fire Grates, made of iron and fire-brick, price from £2 10s. each.

Jas. Ed. Ellison. **No. 278.**

Ventilating Bricks.—Conical perforations, made from earthenware in various colours, price from 1s. 6d. each.

Ventilating Valves, made of iron, price, from 5s. 6d. each.

Ventilating Skirting, conical perforations, made of wood, price 1s. 6d. per lineal foot.

Air Diffuser, with wedge-shaped compartments, by which means the air is dispersed in all directions, made of wood and metal, price £1 2s. each.

Ventilating Air Grates, conical perforations, made of earthenware in various colours, price, from 2s. 6d. each.

Faraday and Son. **No. 377.**

Ventilating Gasfittings.—Pendants for Sitting-rooms, 16in. reflector, composed of brass and opal glass, price £5 10s.

Pendant for Offices, 14in. reflector, price £4.

Bracket, price £3.

Gas-fittings.—Bracket, with Heating Burner and Kettle, made of brass and copper, price £2 10.

J. F. Farwig. **No. 418.**

Gas Stoves for warming and ventilating, made of sheet iron, price £3 3s. to £10 10s.

Ditto, sheet copper, price £5 5s.

Slow Combustion Stove, for warming and ventilation, made of sheet iron and fire-clay, price £6 6s.

Robert Renton Gibbs. **No. 415.**

Ventilators.—Air Cleaning Apparatus, made of wood and glass, price £10 10s.

Hot Water Apparatus—Boilers—(Renton Gibb's Patent), made of iron and brickwork, price £8 per lineal foot for iron-work only.

Furnaces (Renton Gibb's Patent), made of ironwork and fire-brickwork, price from £5 to £21.

Coil Cases, made of iron-work and marble.

Large Classic Case, £10.

Large Gothic Case, £10.

Small Classic Case, £5.

Small Gothic Case, £5.

Long Gothic Case, £10.

Pillar Case, £6.

Valves, Cocks, &c.—Pumping Valve (Gibb's Patent), made of gun metal, price £1.

Stop Cock (Gibb's Patent), made of gun metal, price £2.

Insulator (Gibb's Patent), made of china, price 2s.

Solution, Anti-Freezing (Patent), price 1s. per gallon.

Gilmore and Clarke. **No. 385.**

Ventilators.—To ventilate and regulate temperature automatically, made of metal and earthenware, price from 6s. each.

Induced Current Air Bricks.—To prevent in-draughts and excite out-draughts, metal and earthenware, price, from 6s. each.

Chimney and Shaft, Tops and Caps.—To induce up-draughts and out-draughts in chimney air shafts and sewer ventilators, metal and earthenware, price, from 15s. each.

Robert H. Griffin. **No. 375.**

Stoves.

Francis Hammond. **No. 413.**

Gas and Coke Stoves.

Gas Lighting Apparatus.

Gas Stoves.

Gas Ventilating Apparatus.

Gas Warming Apparatus.

William Hellier. **No. 367.**

Instantaneous Water Heater (Patent), made of copper, brass, and galvanised iron, price, for gas, from £4 4s.; for oil, £14.; with cistern for storing the water, from £7 10s.

Heater for Hot Water Coil, made of cast-iron, price £3.

Ditto ditto copper, brass, and iron, price £4 4s.

Bath, made of zinc, price £3 15s.

Hooper and Co. No. 432.

Heating Stoves, to burn hydro-carbon oils, requiring neither flues or fixing of any kind, made of tin, iron, copper, brass, and cotton wicks, price 6s. each.

Lamps to burn hydro-carbon oils, made of crystal, brass, bronze, and procelain, price, from 12s. each.

W. W. Hopkinson. No. 241.

Libra Lamps, with independent reservoir for mineral oil, and Hopkinson's Patent Valve for regulating the supply of the oil to the lamp in place of constant filling and trimming, made of metal, glass, vulcanised indiarubber filtering substance. Brackets, from £2 15s. each; Table Lamps, from £4 10s. each; Chandeliers, from £6 each.

House Improvement and Supply Association. No. 373.

Heating Apparatus.

Lighting Apparatus.

James Howorth. No. 388.

Ventilators.—Self-acting Air Pump and Induced Current fixed Ventilator (James Howorth's New Patent).—For foul air, gas, or steam; also for soil pipes; made of tin sheets, galvanised iron, wrought and cast iron, price from £1 15s. each.

James's Howorth's New Patent Valve for Ventilators.—For preventing down draughts in ventilating shafts; made of cast-iron and talc, or mica, price, from 7s. 6d. to 12s. 6d. each

James Howorth's Patent Archimedean Screw Ventilators and Chimney Cowls; made of tin sheets, galvanised iron, steel, wrought and cast-iron, price, from £1 5s. each.

James Howorth's New Patent Ventilator.—Designed for extracting foul air and gases from mines and ships, and for forcing fresh air into the working places; made of tin sheets, galvanised iron, steel, wrought and cast-iron, price, from £10 10s.

Harry Hunt. No. 429.

Warming Stoves.—The "Crown Jewel" Base Burner, for burning anthracite coal, and other smokeless fuels, for economically warming dwelling-houses and other building; made of cast-iron, price £10 10s.

W. Ingham and Sons. No. 266.

Ventilators.

C. Kite and Co. No. 389.

Ventilators.

Chimney Tops.

Modern Building.

S. Leoni and Co. No. 376.

Heating Stoves, made of china cover fire-clay tiles, price £2 14s.

Ditto enamelled cast-iron, copper reflector, price £5 10s.

Nickelised Colorifere (Patent), made of iron, fire-clay and platinum, price £10 10s.

Kitcheners and other Cooking Stoves, made of iron, metal, tiles, price, from £6

Thomas Lloyd. **No. 384.**

Ventilators.—For Ship's Cabin, made of brass, price £2 5s.

For Carriages, made of zinc, price 9s. 6d.

For Buildings, made of copper, price £2 5s.

For Buildings, made of zinc and glass, price £1 6s.

For Drains and Sewers, made of zinc, price 10s. 6d.

Ventilating Shaft (Model), made of zinc.

Longden and Co. **No. 428.**

Stove.

Smoke Burning Apparatus.

Leeds' Patent 16-inch Floor Warming Stoves, burning anthrachite coal, to heat room 10,000 cubic feet, iron and firebrick, price £9.

Leeds' Patent 13-inch Warming Stove, burning gas (Bunsen's principle), with asbestos lumps, price £5 10s.

Fire grate, with air tubes to assist combustion.

Walter Macfarlane and Co. **No. 251.**

Ventilators, Lamps, Pillars, and Brackets.

Musgrave and Co. **No. 412.**

Stoves.—Slow Combustion, made of iron and fire-brick linings, price from £1 10s.

Slow Combustion and Ventilating Stoves, price from £4.

Slow Combustion Ventilating Stoves, ornamental iron casings, price from £6 10s.

Slow Combustion Ventilating Stoves, enamelled tile exterior, price from £7 10s.

Heating Apparatus.—Slow Combustion and Ventilating Air Warmer, for placing in a brick chamber underground, price, from £12.

Stove Grate.—Slow combustion, smoke consuming, open fire, made of iron, brass, and fire-clay linings, price from £5.

Henry Newman. **No. 80.**

Plan shewing a Scheme for supplying London with Water, collected from a high level along each side of the Thames watershed.

John Reynard Pickard. **No. 315.**

Domestic Fire Grate.—Consuming smoke, and prevention of draught in chimney, and economising fuel, made with fire-brick, iron, and brass, price £3.

Charles Portway and Son. **No. 421.**

Stoves.—Tortise Slow Combustion Heating Stoves, made of iron and fire-clay, from £1 1s.

Tortise Slow Combustion Heating Stoves, with boiler for water pipes and coils, made of iron and fire-clay, from £3 10s.

Tortise Slow Combustion Laundry Stoves (Patent), made of iron and fire-clay, price from £1.

Thomas Potter and Sons. **No. 420.**

Stoves.—Thermhydic Ventilating Hot Water Open Fire Grate.
Revolving Smoke Consuming Fire Grate.

Mrs. Priestley. **No. 353.**

Window Ventilator.

G. E. Pritchett, F.S.A., F.R.I.B.A. **No. 248.**

Ventilating and Heating Apparatus for passage, and changing of Air without draught or loss of temperature, made of metal, price, about 2s. per foot super.

Heating Apparatus, composed of metal, price from 2s. per ft. super.

Heating Apparatus, portable, for oil or gas, made of metal, price from £3 3s.

Quirk, Barton, and Co. **No. 372.**

Gas Pipe.—Composition of lead and tin, price 17s. 6d. per cwt.

Radiator Range Co. **No. 431.**

Cooking Range.—To roast one to three joints in front of the fire, to burn the smoke and ventilate the kitchen with grill fire, and requires no building, made of metal, price £21.

Wm. Ramsey. **No. 352.**

Reflectors, made from wood and silvered glass.

Ventilator, made from glass, iron, and zinc. Lamps.

Ritchie and Co. **No. 382.**

The Lux Calor Gas Heating, Lighting, and Ventilating Apparatus, made of cast-iron, price from £3 3s.

Rosser and Russell. **No. 427.**

Range and Boiler Safeguard.
Stoves.

Ventilating Apparatus.
Warming Apparatus.

Russell and Erwin Manufacturing Co. **No. 394.**
Ventilators and Window Adjusters.

The Sanitary Engineering and Ventilation Co. **No. 286.**

Ventilators.—Imperial Vertical Tube, with air cleaning arrangements, made of zinc, iron, and wood, price from £1.

Imperial Ventilating Bracket. A concealed ventilator with air cleaning arrangements, made of zinc, papier-maché, price £1 5s.

Imperial Self-acting Exhausts, enamel painted, made of zinc and iron, price from 12s. 6d.

Silber Light Co. **No. 380.**

Lamps.

Lighting Apparatus.

C. H. Sharp and Co. **No. 327.**

Ventilators and Model of Building, showing system of ventilation.

Archd. Smith and Stevens. **No. 425.**

Grates, Self-feeding, to burn anthracite coal, made of iron, brass, and indiarubber, price £4.

Steel and Garland. **No. 346.**

Stove Grates and Chimney Pieces.—Wharnccliffe Patent Warming and Ventilating Grate, admitting cold air from external walls, made of iron, brass, and fire brick, price £10 10s.

Talbert Hole Grate, designed by the late B. J. Talbert, Esq., made of iron, brass, and firebrick, and china tiles, price £6 15s.

Repouse Brass and Engraved Fender, Curb, and Tile Hearth, made of wrought and cast brass. Fender, price £9 15s.; rests, price £5 5s.; fire brasses, price £3 15s.

Square Brass Grate, with hand-painted plaques representing fishing subjects, made of Pold brass and B.B. iron and china tiles, price £37 10s.

Lion Fender Curb for the Tile Hearth, made of Pold brass, price £15.

Fine Art Tile Grate, with moulded curtain tills and front, made of iron and china, price £3.

Parsons' Slow Combustion Grate, fitted with Japanesque curtain and tiles, made of electro-bronze, and fire and china tiles, price £5 2s. 6d.

Chas. Richard Stevens. **No. 383.**

Models of Improvements in Outlets and Inlets for Ventilation, made of iron, zinc, and brass.

Steven Brothers and Co. **No. 250.**

Hot Water Apparatus.

Kitchen Ranges.

Stoves.

Coils for Hot Water.

Coil Cases.

Hot Air Stoves.

Register Stoves, slow combustion and others.

Lamposts and Lanterns.

Patent Hot Water Valves.

Kitchen Ranges, open and close fire.

Hot Water Boilers, Pipes and Fittings.

Strode and Co. **No. 426.**

Strode and Co.'s Patent Sun Burners, with self-acting valve for preventing down draught, made of iron, brass, and mica.

Schonheyder's Sanitary Gas Stove, made of wrought and cast iron, brass and tin.

- Electric Lamp, made of brass, &c.
 Bolton's Vortex Burner, for heating, made of iron and brass.
 Gas Governor (Strode's Patent) in action, made of cast and wrought iron, brass, and mercury.
 An Automatic Electrical Apparatus for lighting gas burners by electric spark, made of wood, iron, copper, and ebonite.
 Various Gas Burners on a standard bar.
 Heating Apparatus for Toilet Purposes, &c., made of iron and brass.
 Two Cylindrical Warming and Ventilating Gas Stoves, made of Iron and brass.

The Sun Auto-Pneumatic Lighting and Heating Co. **No. 436.**
 Lighting and Heating Apparatus.

The Thames Bank Iron Company. **No. 280.**

- Gill Stove for Hot Air purposes, price £14.
 Slow Combustion Stove for Hot Air purposes, price £2 17s. 6d.
 Cast-iron spiral pattern Lamp Column, with cast-iron Lamp Spray and Lamp, glazed and painted, price £3 14s. 6d.
 Cast-iron Street Lamp Post, with wrought iron frame, and Tin Lamp, glazed and painted, price £4 12s. 6d.
 Hot Water Apparatus :—
 Coil of 9 Ornamental Foot Water Pipes, price £5 17s.
 Coil of 16 2-inch Hot Water Pipes, price £4 12s.
 Round Coil Column of 19 2-inch pipes, price £6.
 Cast-iron Ornamental Case for covering coils of pipes, price £3 17s.
 Cast-iron Ornamental Case for covering coils of pipes, bronzed and decorated, and with marble top, price £6 12s.
 Cast-iron Ornamental Case for round coil column, price £3 15s.
 Wrought-iron Welded Hot Water Saddle Boiler, price £3s. 7s. 6d.
 Wrought-iron Welded Saddle Boiler, with flue and terminal end, price £16 10s.
 Wrought-iron Rivetted Saddle Boiler, price £6 18s.
 Wrought-iron Independent Boiler for use without brickwork, price £5 2s. 6d.
 Cast-iron Saddle Boiler, price £4 2s.
 Cast-iron Tubular Boiler, price £5 15s.
 Cast-iron Saddle Boiler, with waterway end, price £6 17s. 6d.
 Cast-iron Conical Boiler, price £3 3s.
 Cast-iron Dome-top Boiler, for use without brickwork, price £6 10s. 6d.
 Independent Vertical Steam Boiler, 42in. by 24in., 15in., cross tube in fire-box, fitted with cast-iron stand, fire hole door, cleaning plugs, manhole, and cover, with bridges, and 1 complete set of brass mountings, made from best Staffordshire plates, price £24 10s.

Recessed Doors and Frames for boilers.
 Arched Doors and Frames for boilers.
 Hot Water Pipe, 6 feet long.
 Hot Water Coil, or Spigot Pipes.
 Flange Steam Pipe, 6 feet long.
 Underground Socket Pipe, 6 feet long.
 Two Pieces for hot water pipe.
 Elbow, for hot water pipe.
 Outside Elbow, for hot water pipe.
 Syphon Bends, for hot water pipe.
 Flange Sockets, for boiler connections.
 Flange Socket Elbows, for boiler connections.
 Hot Pipes, for boiler connections.
 Throttle Valves, for hot water pipe.
 Slide or Pressure Valves, for hot water pipe.
 Diaphragm, or Screw-down Valves, for hot water pipe.
 Improved Double Foot-door and Frame.

William Tonks and Sons. No. 242.

Architrave Ventilators, an adaptation of Currull's patent, designed by Mr. Mark H. Judge, for fixing over the architrave of door, and windows, for circulating the air in rooms without draught, made of metal, price 6s.
 Outlet Ventilators (Currull's patent) for fixing in chimneys and walls for removing vitiated air from rooms, made of metal, price 1s. 6d.
 Inlet Ventilators (Currull's patent) for fixing on doors and windows, for enabling fresh air to ascend to the top of the room, and to be diffused with draught, made of metal, price from 1s. 6d.

The Universal Ventilating, Sanitary, and Engineering Company, Limited. **No. 390.**

Ventilators. Chimney Tops.

Verity Bros. No. 416.

Gas Fires.—Fire Clay Burners, made of fire-clay and brass, price from £1 17s.
 Lighting Apparatus.—Ventilating sunlights, made of iron, price £5 5s.
 Do. do. shade-lights, made of brass, price £4 10s.
 Heating Apparatus.—“Osborne” combined Boiler and Coil, made of brass and copper, price from £6.
 Circulating Tubular Boilers, copper, price £4 10s.
 Warm Air Apparatus, made of copper and iron.
 Ventilating Apparatus.—Air Propeller, made of iron and copper, price £6 6s.

Vertical Tubes, with regulating mouthpieces and air brick,
complete, made of iron and zinc, price 17s. 6d.

Hot Air Stove, with hot water boiler for warming and ventilating purposes, price from £20.

Economic Hot Water Boiler, "Duplex," made of iron, price from £4 10s.

Fireplaces. Stoves. .

Enamelled Stoves, iron, price, from £2 7s. 6d.

Fire Dogs Brasses. do.

Chandeliers for Gas and other Gas Fittings.—Ventilating Lamp, hermetically sealed from contact with air of room in which used, made of brass, terra cotta, copper, and glass.

Adjustable Gas Brackets for Medical Examination; Kitchener Bracket, for use of invalids, made of brass, porcelain, and iron.

Specimens of Ornamental Gas Chandeliers and Brackets, specially constructed for economical consumption of gas burners made under Sugg's Patents, made of brass, iron, and steatite.





SECTION XV.

Water Closets, Sinks, Baths, &c.—Sewage and Drainage.

Fudges.

PROFESSOR W. H. CORFIELD, M.D.

WILLIAM EASSIE, C.E.

ROGERS FIELD, M. INST. C.E.

R. THORNE THORNE, M.B.

ERNEST TURNER, F.R.I.B.A.

A. Torrington Angell. **No. 304.**

Air-tight Covers for Air Chambers and Inspection of Pipes (Angell's), made from cast iron, indiarubber, and compressed felt, price £1 17s. 6d.

The Antiseptic Apparatus Manufacturing Co. **No. 324.**

Apparatus for Neutralizing and Destroying Foul Gases, specially for water closets, made of copper and brass, price £1 16s.

Banner Bros. and Co. **No. 264.**

Sewer Traps. Water Closets.

Beard, Dent, and Hellyer. **No. 254.**

Baths.	Cast Lead Traps.	Gullies.	Lavatories.
Sinks.	Stoneware Traps.	Urinals.	Water Closets.
Water Waste Preventers.			

Benham and Sons. **No. 410.**

Disinfecting Oven, heated by steam.

Disinfecting Oven, heated by gas.

Birmingham Sanitary Association. **No. 271.**

Sewer Traps.—Edinboro' Air-chambered trap (Pott's Patent), earthenware with metal grids for 9 in. drain, price £3 3s.; for 6 in. drain, price £2 10s.; for 4 in. drain, price £2 2s.; for single closet, price £1 1s.; for bath wastes, &c., price 15s.

John Bolding and Sons. **No. 247.**

Baths. Lavatories. Urinals.

Water Closets.

Water-Waste Preventers.

Daniel T. Bostel. **No. 268.**

Sewer Traps. Urinals. Water Closets.

Flushing Cisterns.

Braithwaite and Co. **No. 347.**

Patent Syphon Water Waste Preventer, dispensing with valve in cistern, made of brass and copper.

Brithwaite's Wash-out Water Closet, made of earthenware.

Cloughton's Patent Oval and Round Stench Traps, made of cast lead.

The Briton Ferry Coal and Pottery Co., Limited. **No. 252.**Invert Blocks. Sewer Traps. Sinks. Stoneware Gullies.
Stoneware Pipes. Urinals.Edwd. Brooke and Sons. **No. 259.**Gullies. Invert Blocks. Radiated Sewer Bricks.
Ribbed Pipes. Sewer Traps. Sewer Ventilators.
Sinks. Stoneware Pipes. Trough Closets.Wm. Paton Buchan. **No. 261.**

Drain Pipe, with rest, and access, and opening lid (Buchan's Patent), made of fire clay.

Drain Trap, cascade action, ventilating trap for drains, soil pipes, waste pipes, &c. (Buchan's Patent), made from fire clay.

Water Closet, "Carmichael" washdown accessible, P trap style (Buchan's Patent), with patent adjustable metallic jet fan, made of earthenware, price £1 10s. 6d.

Candy and Co. **No. 301.**

Sanitary Pipes of salt glazed stoneware.

Yard Sink with Trap and Sill Bucket.—A new yard trap and gully, fitted with a large movable sill bucket, arranged for the drain to remain trapped when the bucket is removed for cleansing, the bucket to act as a strainer, and prevent floating substances entering the drain, made of glazed stoneware, price 7s. 6d.

The "Chudleigh" soil pipe trap, and sewer ventilator, for fixing at bottom of vertical soil pipes, fitted with inspection opening, and for ventilating the sewer and soil pipe, glazed stoneware, price 7s. 6d. each.

Mason's Trap.—A substitute for the old-fashioned brick and cement mason's trap, with access or inspection hole, and opening for ventilating the sewer, made of glazed stoneware, price 7s. 6d. each.

Sewer Gas Excluder and Drain Ventilator (Registered).—A double water seal, deeply trapped, with a flushing or cascade-like action to each seal. Air chamber for open sink. Outlet for sewer and soil pipe ventilation, made of glazed stoneware, price for 3 in. pipe, price 7s. 6d. each; for 4 in. pipe, price 10s. 6d. each; for 6 in. pipe, price 12s. 6d. each.

Capper, Son, and Co. **No. 332.**

Trapless "Twin Basin" Water Closet (Pearson's Patent), made of earthenware, metal, and indiarubber, price £4 4s.

Trapless Twin Basin Water Closet with Brian Jones's patent joint for connecting the closet with the soil pipe, made of earthenware, metal, and indiarubber, price £4 10.

F. W. Clarke. **No. 355.**

Machine for Filtering Sewage.

Joseph Cliff and Sons. **No. 270.**

Architectural Terra-cotta.

Glazed Bricks.

Chimney Tops.

Damp Proof Courses.

Majolica and Salt Glazed Ware.

Terra-cotta Steps.

Sinks.

Stoneware Pipes.

Stoneware Traps.

P. J. Davies. **No. 318.**

Sewer Traps.

Stoneware Pipes.

Doulton and Co. **No. 253.**

Lavatories.—Earthenware, marble, metal, Doulton ware, and wood.

Tip-up basin, walnut enclosure ornamented with Doulton ware, price £30.

Angle Tip-up, with mahogany decorated enclosure, price £14 5s.

Oval Plug Cabinet Basin, with shampooing apparatus and oak decorated enclosure, price £14 10s.

Slop Sinks for Housemaids, made of plain and enamelled slate, earthenware, and metal, price, from £4.

Sinks for kitchens.

Urinals fitted for two persons, with patent treadle action, made of earthenware, marble, and metal, price £18 5s.

Urinals, unfitted, angles lipped, flat backed, &c., made of earthenware and stoneware.

Lambeth Valve Closet, with stoneware trap, and patent regulating valve, the whole to be fixed complete above the floor, made of earthenware, stoneware, metal, and indiarubber, price £4 3s. 6d.

Lambeth Trapless Closet, with water waste preventer, made of earthenware, metal, and india rubber, price £2 19s.

Lambeth Flush out Closet, with water waste preventer, made of earthenware and stoneware, price £1 1s.

Lambeth Flush out Closet, with patent seat action, valve $1\frac{1}{2}$ ins., made of stoneware, metal, and indiarubber, price £2 6s. 6d.

Ordinary Valve Closet, made of earthenware, metal, and india-rubber. Price £4 10s.

Common Hopper, with flushing rim, and 1-in. waste-preventing valve under the seat, made of stoneware, metal, and indiarubber, price £1 13s. 6d.

Bath Fittings.—Valves and locking apparatus attached to prevent waste of water, made of metal and indiarubber.

Water Waste Preventers, for use with valve and pan closets, metal and indiarubber, from 18s.

For use with Flush out and all Hopper closets. Patent vacuum, made of metal, from 18s.

For fixing to closets under the seat, in metal and indiarubber, £1 6s.

Grease Interceptor, easy cleansing and removal, stoneware.

Stoneware Drain Pipes, with patent joint for quick laying and perfect soundness. Doulton's Patent and Stanford's Patent.

"Kenon Air Chamber Floor" and Trap, for intercepting sewer gas, and the examination and cleansing of house drains, made of stoneware, £2.

Traps, made of Stoneware.

Sanitary Stoneware.—Series of traps and pipes.

Charles Drake and Co, Limited. **No. 361.**

Marble Bath.

C. W. Durham, of Chicago. **No. 351.**

Model of House, with Durham's patent system of drainage throughout, with water closets, sink, baths, and gullies. The whole connected with screw joints, as with gas and steam engineering.

A. Emanuel and Sons. **No. 331.**

Valve Water Closet, with arrangement for flushing trap and overflow, made of earthenware, metal, and indiarubber, price £7.

Ditto, to be used with a water waste-preventer cistern, price £5 10s.

Bellows Regulator, made of copper, leather, &c, price 10s. 6d.

Water-Waste Preventing Cistern, made of copper and glass. Price £2 10s.

Lift Pump, made of gun metal, iron and oak. Price £8 10s.

"Eureka" Concrete Co. **No. 363.**

Sewers, 4 ft by 2 ft. 8 in. Price 12s. 6d. per lineal foot.

Ditto, 20 ft. by 18 ft. Price 3s. per lineal foot.

Sinks.—Ordinary Sinks. Price from 1s. 8d. per superficial foot.

J. Finch and Co. **No. 302.**

Porcelain Bath, moulded and glazed, in one piece, made of fireclay, bisque glaze, price £8 17s. 6d.

Bath Fittings. Separate inlet and outlet, made of gun metal, brass, iron, and porcelain, price £6 15s.

Porcelain Sinks, made of fire clay, bisque glaze, price from £1.

Ventilating Drain Traps and Pipes.

Water Closet, self-acting, works from seat, earthenware case, made of earthenware, iron, and mahogany, price £6 10s.

W. J. Fraser and Co. **No. 445.**

Disinfecting Apparatus (Patent).—A portable apparatus for disinfecting, at a small cost, by heat, and destroying at same time all vapours given off, made of iron, price £120.

Gillow and Co. **No. 381.**

Lavatories, specially designed for a limited space, made of earthenware and walnut, price £15 each.

Hayward, Tyler, and Co. **No. 329.**

Hot and Cold Water Valves, for baths and lavatories, made of metal, price from 7s. 6d. each.

Urinals, with treadle and other arrangements, made of earthenware and metal.

Earthenware Side Outlet Closet, fitted with Howard's Patent Water Regulator.

Door-Action Pan Closet, with valve and regulator, made of earthenware and metal, price from £3 15s.

Hopper Closet and Trap, fitted with water regulator and Chandler's Patent Flushing Cistern, 2-gallon flush, made of earthenware and metal, price from £2 6s.

Flushing Cistern, or Water Waste Preventer, made of metal, price from 19s. each.

Pan Closet, fitted with 1-in. valve and brass regulator, made of earthenware and metal, price from £2 each.

Elastic Valve Closet, fitted with Howard's Patent Regulating Valve, flushing rim basin, made of earthenware and metal, price from £3 10s. each.

Elastic Valve Closet, fitted with brass and bellows air regulator, flushing rim basin, made of earthenware and metal, price from £2 10s. each.

Edward Howard. **No. 306.**

Automatic Flushing and Ventilating Arrangement for water closets, sinks, urinals, &c., made of wood, iron, &c., price from £5 each.

W. Ingham and Sons. **No. 266.**

Lever Traps and Stoneware Pipes.

George Jennings. **No. 257.**

Waste Water Preventers, connection to closet under seat, made of metal and indiarubber, price £1 5s. each.

Water Closets.—Valve closet and trap in one piece, branch valve closet, made of earthenware, metal, and indiarubber, price £3 10s. each.

Patent Trapless Valve Water Closet, made of earthenware, metal, and indiarubber, price £3 each.

Lavatories.—Patent trip-up basin, marble top, metal cap, mahogany enclosure, price £15 each.

Sinks.—Combined Sink and Wash Tub, made of galvanized iron and wood, price £5 each.

Slop Sinks, made of earthenware and enamelled slate, price £5 5s. each.

Urinal.—Concealed arrangement, made of earthenware, metal, marble, wood, price £12 each.

Journeymen Plumbers. **No. 320, 321, & 322.**

Slip Socket Joints. Bends. Traps. Wiped Joints.
Specimen of jointing of pipes of different metals, and other plumber's work.

S. Leoni and Co. **No. 376.**

Bath Boiler (Patent Safety), made of zinc, copper, iron, price £10.

Washington Lyon. **No. 364.**

Model of Portable Disinfecter.

Walter Macfarlane and Co. **No. 251.**

Pipes and Gutters. Baths. Sinks. Urinals.
Wash-hand and Foot Basins. Dry Closets. Water Closets.

Maguire and Co. **No. 282.**

Dr. Scott's Disinfecting Chamber, heated by gas, made of timber, iron, and non conducting felt, brass, and copper, price £60.

Dr. Scott's Disinfecting Chamber, heated by coal or wood, price £56, exclusive of brickwork.

Dr. Scott's Portable Disinfecting Chest on Wheels, heated by gas or charcoal, price £25 for charcoal; price £30 for gas.

Non-conducting Door and Frame, specially for brick disinfecting chamber, made of timber, iron, brass, and non-conducting packing, price £10.

Patent Drain, joint doubled underneath, for free inspection of interior of drains.

Patent Drain Cradle for jointing under common drain pipes.

Patent Flushing Tanks, automatic, price, from £2.

Disconnecting Receivers, to disconnect wastes of baths and sinks from drain, price, from 7s.

Professor Barff's Patent Anti-Corrodo Tubes for Water and Drain Pipes.

Enamelled Iron Tubes supplied by the Rustless and General Iron Company, adapted for water pipes, soil pipes, and drain pipes.

Matheson and Gardner. No. 403.

Sanitary Pipes.—Lead incased block-tin pipe: medium for the supply of pure water to dwellings to prevent lead poisoning, made of lead and pure block tin.

Moule's Patent Earth Closet Co. No. 317.

Earth Closet.—Pull up apparatus No. 5A, made of galvanised iron wood, and earthenware, price £2 16s. 6d. each.

Earth Closets.—Pull up apparatus No. 9, price £6.

Model of an Earth Closet.—Upstairs apparatus showing means of filling and emptying from below.

Model of an Earth Closet.—Out door closet, showing method of filling and emptying behind.

Receptacles of various sizes for earth closets, made of galvanised iron.

Pull-up Earth Commode, No. 6, made of galvanised iron, wood, and earthenware, price £5 1s.

Henry Owen. No. 330.

Water Closets and Water-Waste Preventers.

Valves. Urinals. Gullies and Sewer Traps.

John Parker. No. 313.

Dry Earth Closets.—Self-acting, made of mahogany, iron, and enamel, price £5.

Works earth or ashes, pull up handle and pail receptacle, trough under seat, separates liquid—this can be run to drain or pot in $\frac{1}{2}$ in. pipe—large hopper when fixed, made of deal and iron, price £1 18s.

Dry Earth Closet, self-acting, fits place 3 feet along seat, large earth hopper and grating inside, and liquid separator under seat; also tank on wheels for receptacle, made of deal, iron, and enamel, price £3 10s.

“Patentee.” Care of King and Co. No. 283.

Earth Sewage Filters.—To filter sewage direct immediately on discharge from W.C.'s; made of galvanised iron, wood, or earthenware, price from £1 10s.

John Reynard Pickard. No. 315.

Ash Closet.—To separate the refuse and deodorise the excreta; made with bricks, stone, and timber, price £10.

Carbonizing Oven.—To carbonize all vegetable matter from public markets or ashpits, made of iron, fire-brick, and stone, price from £100.

Sewer Trap.—Ventilating Sewers of large towns, made of brick and iron.

Furnace for reducing and purifying town refuse, made of brick, stone and iron, price from £1000.

J. Purnell and Son. No. 342.

Water Waste Preventer.—“Purnell's” Syphon Water Waste Preventer, made of iron, brass, and lead, price £1 5s. each.

Manholes, Doors, and Frames, made of cast iron.

Light closed 18s. 6d.

Heavy „ £1 5s. 6d.

„ Ventilating, £1 5s. 6d.

White Glazed Stone Ware Channels, straight, tapered, and curved, made of earthenware, price from 1s. 6d.

Flushing run Water Closet Basins, earthenware, from 6s. each.

William Ramsey. No. 352.

Lavatory (Miller's patent), made of wood, earthenware, and brass, price £7.

Jewell's Closets, made of iron, earthenware, and indiarubber, price £1 12s.

Sink, enamelled iron, price £1.

Traps.—Double Syphon Trap, iron and earthenware, price from £1 15s.

Sink Traps, iron and lead, price from 3s.

Stench Traps (Claughton's), lead, price from 2s.

Sewer Pipe Ventilator, made of zinc, price from 12s. 6d.

Syphon (patent), made of brass, price £1.

B. Scott and Read. No. 340.

Flushing Cistern (100-gallon), to act without working parts, and to start with small quantity of water, made of galvanized iron, price £8 each.

Flush Tank, to act as flush tank and fat trap combined (Field's Patent), made of iron and stoneware, price from £6 10s.

Annular Syphon for Flushing Sewers (Field's Patent), made of iron, price from £6 10s.

Henry Seward, F.C.S. No. 305.

Disinfecting Vaporizer, applied to drain gullies and ventilators in streets, made of iron, price £1 10s.

Ditto, applied to soil pipes, made of lead, price £1 10s.

Shanks and Co. No. 281.

Lavatories.—Range of cast iron lavatories for 2 persons, enamelled porcelain, for schools, institutions, &c., price £3 16s.

Sinks.—Slop hopper encased in iron, with flushing rim, made of iron and earthenware, price £1 1s.

Butler's Earthenware Sink, with hot and cold taps, and patent discharge arrangement, price £1 10s.

Water Closets.—Trapless closet, with “Safety” encased basin and supply valve, made of iron, brass, earthenware and indiarubber, price £2 5s.

Water-Waste Preventers.—Copper syphon supply cistern, price £1 10s.

Cast iron double valve supply cistern, with after flush box, price £1.

Cast iron single valve supply cistern, galvanized, price 18s.

Water Closets.—Bramah valve closet, with ventilated valve box, Shanks' patent safety basin, supply valve, and regulator, made of cast-iron, earthenware, brass, lead, and indiarubber, price £3.

Washout Closet (Shanks' Patent), Crown encased safety washout closet and trap, ventilated, with seat and pull-handle, made of earthenware, cast-iron, brass, and wood, price £2.

Baths.—Sitz Bath in copper, enamelled with bottom spray, back spray, and back wave, all fitted with Shanks' Patent supply arrangement, price £12.

Copper Bath with spray, shower, and Douche canopy, enamelled metallic, having Shanks' patent arrangement for supply and discharge, price £23 10s.

Cast-Iron Enamelled Bath (Shanks' patent), with fittings at end for hot, cold, and waste, price £6 15s.

Cast-Iron Bath, similar to above, with fittings at side, price £6 3s.

Lavatories.—Large white, with discharge arrangement, taps, &c. Shanks' Patent, made of earthenware, brass, walnut wood, and indiarubber, price from £12 10s.

Small, price from £3 2s. 6d.

Cast-iron enamelled porcelain, price £2 0s. 6d.

C. H. Sharp and Co. **No. 327.**

Water Closets. . . Sink Traps.

Henry Sharp, Jones, and Co. **No. 341.**

Stoneware Pipes, fitted with Stanford's joint, made of stoneware, of Poole clays, joint of tar, sand, and sulphur.

Sewer Disconnector, made of stoneware.

Yard Gully, double trapped, made of stoneware.

Rock Concrete Tubes, for large sewers, made of Portland cement, concrete.

Alfred Shaw. **No. 316.**

Dry Closet.—Self contained mechanical closet, requiring no water flush, made of metal and earthenware, price £22.

The Shone Drainage, Sewerage, and Water Supply Co., Limited. **No. 284.**

Automatic House Drainage. . . Flushing Apparatus
Automatic Sewage Ejector.

Thos. Smith and Co. **No. 269.**

Gullies.	Inverted Blocks.	Sewer Traps.	Sinks.
Stoneware Pipes.	Urinals.	Water Closets.	

Smith and Barnes. **No. 325.**

Cast Lead "D" Traps.

Peter Spence. **No. 106.**

Aluminoferrie Cape, Patent, for defecating, clarifying, and decolorizing town sewage, and the waste waters of dye and print works, tanneries, and other manufactories; also turbid, clayey, or peaty water, for drinking and for manufacturing purposes.

Steven, Brothers, and Co. **No. 250.**

Baths, enamelled iron, with patent fittings. Urinals.

Water Closets. Dry Closets. Lavatories.

Kitchen Sinks. Patent Drain Traps.

Gully Gratings and Manholes.

Chas. Richd. Stevens. **No. 383.**

Hot Water Apparatus.—Circulating Water Heater for supplying hot water to baths, hand basins, sinks, &c., made of iron, copper, and brass, with 30 gallon tank, price £10.

Combined Hot Air and Steam Apparatus for warming green-houses, bedrooms, churches, and public buildings, made of iron, copper, and brass, price, from £2.

Thomas Pridgin Teale, M.B., F.R.C.S. **No. 142a.**

Diagrams of Defective Sanitary Arrangements from illustration in "Dangers to Health."

The Thames Bank Iron Co. **No. 280.**

Cast-Iron Manhole Doors and Frames for sewers, 24 in., price £1 15s.

Sewer or Gully Grates and Frames for Roadways, 18 in. by 16 in., price 18s.

Grates and Frames for garden drains, 10 in., price 3s.; 8 in., price 1s. 10d.; 6 in., price 1s. 2d. each.

Swanneck or Off set for Noman Shaw's Water Closets.

J. Tylor and Sons. **No. 256.**

Baths. Lavatories. Closet Regulators. Sinks.

Urinals. Water Closets. Water Waste-Preventers.

Lavatory.—Marble top, flushing rim, back outlet basin, screw-down Z.V.-taps, spoke knobs, and quick waste valve, marble, earthenware, wood, and metal.

School or Hospital Lavatory.—Improved metal tip-up basin and receiver, self-closing tap, can be fixed in a row, marble, wood, and metal.

Hospital Slop Sink.—J. Tylor & Sons' patent regulator and "waste-not" tap, as fitted in St. Bartholomew's Hospital, iron (enamelled), earthenware, and metal.

Surgery Sink.—Round basin, with draining top, earthenware.

Housemaid's Sink.—Square, with overflow arm, earthenware.

Valve Water Closets.—J. Tylor and Sons' Patent Regulator, ornamental basin, nickel plated, silvered glass valve plate, made of earthenware and metal.

J. Tylor and Sons' Patent "Waste Not" Regulator, Air Vessel, clear way without overflow, made of earthenware and metal.

J. Tylor and Son's Patent Regulator, side outlet valve, earthenware, brass, and Beoffed iron.

J. Tylor and Son's Patent Regulator "Waste Not" Hopper Water Closet; earthenware trap, with connection for ventilating pipe.

J. Tylor and Sons' Patent Model Cistern Valve (Waste Not), in glass cistern to show the action.

Urinal.—Syphoning Trapped Basin, model "Waste Not" Supply Cistern.

Bath.—Screw down valves and quick waste, made of copper, with mahogany top. Casing removed to show valves and pipes.

Bath Valves.—A portion of bath to show supply and waste valves, with locking arrangements for the prevention of waste, made of metal and wood.

Improved Traps, for disconnecting all soil and waste pipes of a house from the sewer or drains, made of earthenware and metal.

A small Cistern (intermediate) to show how the closet supply may be cut off from the house cistern, made of metal.

F. G. Underhay. No. 326.

Underhay's Patent Valve Water Closets, made of earthenware, metal, and indiarubber.

Bramah Valve Water Closets, made of earthenware, metal, and indiarubber.

Pan Water Closet, with valve and regulator, iron stool frame, with oval basin and trap.

Pumps and Well Frames.—Lift and Force Pumps on Planks, made of metal, leather, and wood.

Deep Well Pump and Well Frame, made of metal, leather, and wood.

Sluice Cock, Ball Valves, and Cocks, made of metal and indiarubber.

Double Cylinder Water Meter.

Detector.

Waste Preventer.

Verity Bros. No. 416.

Bath Boiler.—Tubular Boiler, made of copper, brass, and iron, price £6 10s.

Alfred Walker. No. 362.

Concrete Drain Pipes.

Concrete Sinks.

Thos. Waller and Co. **No. 249.**

Water Closets, with ventilating apparatus, made of wood and iron.
price, from £10.

Edward Warner. **No. 263.**

Syphon Disinfectors for Water Closets, Urinals, &c. (Patent)
made of wood, glass, and metal, price, from £1 10s.

John Warner and Sons. **No. 333.**

Public Water Closet, with self-acting water-waste preventer, made
of earthenware, iron, brass, indiarubber, and leather, price £3.

Valve Closets, with sealed overflows, made of earthenware, iron,
brass, and indiarubber, price, from £4.

Pan Closets, with containers of earthenware, made of galvanized
iron, brass, indiarubber, and earthenware, price, from £4.

Lavatories, made of earthenware.

Urinals, made of iron, brass, and earthenware.

Bath and Fittings, with facility of cleansing the overflow, made of
cast-iron, brass, leather, and indiarubber, price £12.

Portable Water Closets, made of wood, zinc, brass, leather, iron,
and earthenware, price £5 10s.

Robert Weare. **No. 311.**

Inodorous Carbon Closet Commodes and Slop Pails, made of wood,
earthenware, and metal.

William White, F.S.A. **No. 262.**

Water Closet and Waste Preventer.—Flushing Basin, made of
earthenware and metal, price, from £3 5s.

Wilcock and Co. **No. 279.**

Trough Closets.

James Wood. **No. 358.**

Disinfecting Apparatus.

James Woodward. **No. 323.**

Lavatories. Sinks. Stoneware Pipes and Stoneware Traps.
Urinals. Water Closets and Water Closet Basins.

The Wortley Fire Clay Co. **No. 365.**

Earthenware Pipes, fitted with Jackson's airtight, gastight, and
watertight joint, suitable for either sewer or water pipes, made of
fireclay.





SECTION XVI.

Water Supply and Filtration.

Judges.

LIEUT.-COL. FRANK BOLTON.

PROF. FRANCOIS DE CHAUMONT, M.D., F.R.S.

R. B. GRANTHAM, M. INST. C.E.

PROFESSOR PRESTWICH, F.R.S.

Beard, Dent, and Hellyer. **No. 254.**
Valves.

John Bolding and Sons. **No. 247.**
Valves.

Henry Chapman, **No. 399.**
Filters.

J. Defries and Sons. **No. 433.**
Filters.

Doulton and Co. **No. 253.**
Filters.—Manganous Carbon (Dr. Bernay's Patent) Automatic
Aerating, for fixing to stone cisterns (Bailey Denton's Patent),
made of stoneware and carbon, price, from £2.
Ball Valves.—High and Low Pressure, to shut off with the pres-
sure, and requiring only short lever and small ball, made of
metal and indiarubber.
Supply Valves.—High and Low Pressure (Patent), made of metal
and indiarubber.

A. Emanuel and Sons. **No. 331.**
Deep Well Pump, made of gun metal and iron, price £6.
Cocks and Valves.—
1½ in. Screw Down Stop Cock, made of gun metal, price
£1 8s.
1 in. Screw Down Bib Cock, gun metal, price 10s. 6d.
1¼ in. Wheel Valve, gun metal, price 16s.
1¼ in. Gland Cock, gun metal, price £1 8s.
1 in. Boiler Cock, gun metal and ebony, price 16s.
1 in. Gland Bib Cock ditto price 18s.
1½ in. Ball Valve ditto price £1 10s.
¾ in. Ball Valve, gun metal and copper, price 7s.

E. and J. Gardner. **No. 398.**

Filters Filtering Materials.

Haywood, Tylor, and Co. **No. 329.**

Fire Hydrants and Test Pumps for Water Mains, with Fittings, made of metal, price, from £2 2s.

Hooper and Co. **No. 432.**

Carbon Blocks.—To soften water and prevent incrustation in boilers and kettles, price 6d. each.

Filters.—Compressed Vegetable Carbons, made of stoneware and glass, price 1s. 9d.

W. W. Hopkinson. **No. 241.**

Libra Valves.—For filling kitchen boilers and filters; with Hopkinson's Patent Counterbalanced Float for regulating the supply without overflowing, made of metal and vulcanised indiarubber, price, from £1 1s.

George Jennings. **No. 257.**

Traps.—Patent Ball Trap, made of indiarubber.
Drawn Lead Traps, made of lead.

Walter Macfarlane and Co. **No. 251.**

Fountains and Cattle Troughs.

P. A. Maignen. **No. 401.**

Filters.—Maignen's Patent "Filtru Rapide," for purifying and aerating water; made of earthenware, asbestos, cloth, and patent carbo-calcio, and other filtering media, price from £1 10s. each upwards.

Maguire and Co. **No. 282.**

Valves.

Maguire's Patent Renewable Animal Charcoal Filters for Domestic Use, made of earthenware and animal charcoal, price, from 12s. 6d.

Quirk, Barton, and Co. **No. 372.**

Pipe (Patent).—Tin lined lead piping, made of lead and pure block tin, price £1 12. cwt.

Water Pipe.—Lead water pipe, made of lead, price 16s. 6d. per cwt.

William Ramsey. **No. 352.**

Priestley Drinking Water Tank (Ramsey's Patent), made of wood, glass, and tinned or plated fittings, glass ball.

Filters, glass and charcoal.

The Sanitary Engineering and Ventilation Company. **No. 286.**

Water Cisterns.—Self cleansing, fitted with flushing arrangements, made of iron, price, 100 gallons, £4 3s. 4d.

Cistern Filters.—Imperial Self-cleansing Mineral Carbon Filters, with solid carbon ring, made of earthenware, galvanised iron, indiarubber, silicated carbon, price £5.

Portable Filters.—Imperial Aerating Mineral Carbon Filters, with all parts accessible for cleansing and renewal, made of earthenware, silicated carbon, price from £1 5s.

Table Filters.—Handle and valve, made of glass, silicated carbon, price 10s.

Diagrams of Cistern Filters, and Portable Filters.

Shanks and Co. **No. 281.**

Supply Taps.—Bath Taps combined and single.

Lavatory Taps, combined and single.

Ball Taps, in glass top case, made of brass.

Bib Taps,
Pillar Taps.

C. H. Sharp and Co. **No. 327.**

Filters.

The Silicated Carbon Filter Co. **No. 402.**

Filtering Medium.—Silicated Carbon, made of carbon, price £1 10s. per cwt.

Filters.—Domestic Filters, made of silicated carbon, earthenware, and metal, price from 10s. 6d.

Ascension Filters, made of asbestos, price from 18s.

Table Filters, made of glass and cork, price from 2s. 6d.

Pocket Travelling Filters, made of indiarubber, price from 2s. 6d.

Main and Constant supply Filters for placing under cistern or attaching to main, price from £3 3s.

Thos. Smith and Co. **No. 269.**

Filters.

The Spongy Iron Domestic Filter Company. **No. 400.**

Water Filters.—Domestic Spongy Iron Filters of different constitution, made of spongy (metallic) iron, prepared sand, and stone-ware filter cases, price from 9s. 6d. each.

The Thames Bank Iron Company. **No. 280.**

3 Sluice Valves for water main. 1 Hydrant for water fire mains.

J. Tylor and Sons. **No. 256.**

Valves and Taps.—An assortment for Water Supply, from 3in. to 12in. All sizes in stock, metal.

Patent Grooved Joints.—For making joints to lead pipe without solder. They will stand the highest pressure.

Water Main Pipe.—With hydrant, sluice valve, main stop valves, and ferrules, to show the mode of connecting the supply pipes to street mains, metal.

Water Meters.—An assortment of J. Tylor & Sons' patent meters, metal; one made of glass to show the working parts.

Automatic Meter.—An apparatus for registering the quantity of water that passes through a pipe in any given time, made of metal.

Pumps, Double and Treble Barrel for Deep Wells.

Water Post or Street Well, with J. Tylor and Son's Patent "Waste Not" Valve, as fixed for the Corporation in the courts and alleys of the City, under constant supply from the New River mains, made of metal.

Fire Valve, Hose, etc.—J. Tylor and Sons' Screw-down Valve Hose Unions, with old and new Brigade gauge, metal, and canvas hose.

Geo. T. Tonks. **No. 243.**

Cistern Supply Valves.—Fractionless Balanced Supply Valve (Meakin's Patent), made of brass, glass, and galvanised iron wire, price $\frac{1}{2}$ in., $\frac{5}{8}$ in., $\frac{3}{4}$ in. 4s.

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Stoneware Well Tubes.





SECTION XVII.

School Furniture, Window Blinds, Clothing, Books, &c.

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ALFRED CARPENTER, M.D.

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Universal Venetian Blinds (Protected).—Quadruple action.

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Refrigerator and Butter Box.

Baillière, Tindall, and Co. **No. 146.**

Books.—Medicine, Hygiene, General.

Sir Sherston Baker, Bart. **No. 25c.**

Books, &c.—“Laws of Quarantine.”

“International Rules of Quarantine.”

Dr. Jean Baptiste Bastien. **No. 90.**

Drawings of Bathing and Gymnastic Apparatus.

William Benger and Sons. **No. 131.**

Wollen Underclothing. **No. 131.**

Benham and Sons. **No. 410.**

Davey's Washing Machine. Washing Trough.

Centrifugal Washer. Drying Closet, with Sliding Horses.

Peter Hinckes Bird, F.R.C.S. **No. 378.**

Glass Carburettor, made of metal, glass, and cotton wick.
Spirit Thermometer.

David Bogue. **No. 150.**

Books.—Medical and Scientific.

Diagrams.

Thomas Bradford and Co. **No. 441.**

Drying Closets. Washing Machines.

British Syphon Manufactory. **No. 197.**

Syphons and Seltzogenes for Aerated Waters.

John Bryden and Sons. **No. 303.**

Window Blinds.—Outside Spanish, made of wood, brass, iron, and tick cloth, price 2s. per square foot.

Roller Actions for Sun Blinds, made of brass and gun metal, 4s. per set.

Chorlton and Dugdale. **No. 411.**

Ship Appliance:—

“Excelsior” Spring Ship’s Berth, made of metal.

J. and A. Churchill. **No. 142.**

Books.—Medical, Hygienic, and General.

Medical Times and Gazette.

British Journal of Dental Science.

Pharmaceutical Journal.

Year Book of Pharmacy.

Coleman and Glendenning. **No. 235.**

School Desks.—“Adjustable Modern Desk” (Patent), adapted to any height with Dr. Roth’s chair, seat and desk to rise, made of walnut wood and iron, price £2 10s. each.

“Adjustable School Desk” (Patent), with Dr. Roth’s chair, a top seat only to rise, pitch pinewood and iron, price £1 5s.

“Modern Desk” (Patent), top movable, horizontal, with Dr. Roth’s chair, pitch pinewood and iron, price £1 5s.

Head Master’s Desk, the Widnes, made of pitch pinewood and brass, price £10.

Draper’s Seat.—“Automaton” (Patent) seat for draper’s assistants, made of iron and birchwood, price 7s. 6d. each.

Tables.—Science and Art Table, folding, for drawing, writing, and reading, made of pitch pinewood and iron, price 10s. 6d.; walnut wood, price 17s. 6d.

University Folding Table, made of oak, price 14s.

Queen’s Drawing Table, made of walnut wood, price £1 1s.

J. R. Corsan. **No. 130.**

Sanitary Tablets.

John J. Croft. **No. 143.**

Books.—A complete set of the *Lancet* in volumes, from its commencement in 1823 to the end of 1880.

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P. Pfeiderer. **No. 212.**

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Fire Screens.

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Books and Pamphlets.

Sanitary Assurance Certificate.

M. A. Shaw. **No. 369.**

Cinder Sifter—

“Dustless.”—The sifter enclosed in box with slide at bottom, made of wood and galvanised iron, price, from 10s. 6d.

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Books and Diagrams.—Medical, Hygienic.

The “Sanitary Record,” from its commencement.

Smith and Turner. **No. 397.**

Clothes Washer.—Automatic (Hughes’ Patent), made of zinc, price, from 5s. each.

Door Holder, made of steel, brass, and stone, price, from 4s.

Society for the Prevention of Blindness. **No. 117.**

Books and Diagrams.

Gymnastic Models.—Adapted for the Use of the Blind, made of papier mâché.

Léon Somzée. No. 110.

Hygienic Apparatus for Mines, and Lamps for Miners.
Diagrams of Life-Saving Apparatus.

Henry Tylor and Son. No. 238.

Ventilating Blinds.—Tylor's Patent Action, made of best pine-wood, with painted and varnished laths, price from 8d. per superficial foot.

Outside Louvre Blinds, made of pine-wood, tick, and ironwork, price from 1d. per superficial foot.

Outside "Universal" Blind, made of pine-wood, cloth, and ironwork, price from 1s. per superficial foot.

Case of Spring Roller Blinds, made of pine-wood, cloth, tick, and ironwork, price from 10d. per superficial foot.

Brass Flange Roller Blinds, made of pine-wood, cloth, and brass, price 10d. per superficial foot.

T. Pridgin Teale, M.B., F.R.C.S. No. 142a.

Books.—"Dangers to Health." Diagrams.

W. Tonks and Sons. No. 242.

Blind Furniture (Wethind's Patent) for automatically securing window blinds in any position by releasing the cord, made of metal, price 1s. 11d. per set.

Book Case Fittings (Patent) for permitting an easy re-arrangement of book shelves, made of metal, price, strips from 4d. per foot.
plates „ 7d. per doz.

Allen's Registered Hat Holder, for fixing under pews and chairs, made of metal, price 10d. each.

Picture Line and Adjusting Fasteners (Hookham's Patent), for securing hanging pictures, and adjusting their height with facility, made of metal, price, picture line, 2s. 6d. per 100 feet, adjusting fasteners, from 2d. per doz.

Trübner and Co. No. 144.

Books.—Medical and Scientific.

Dr. F. Vallardi. No. 147.

Books.—Medical.

Edward Warner. No. 263.

Drawings, enlarged from text books for lecturing purposes.

William White, F.S.A. No. 262.

Book.—Domestic Plumbing, and Water Service.

R. W. Winfield and Co. No. 419.

Lacquer.—Spirit Varnish for the prevention of oxidation of metallic surfaces.



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- Edwards and Bradley, 266, South Lambeth-road, S.E. **No. 207.**
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- Finch, J., and Co., 9, Buckingham-street, Strand. **No. 302.**
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 Hammond, Francis, 5, Chandos-street, W.C. **No. 413.**
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 Hastings Association (W. L. Vernon, Architect), 26, Great George-street, Westminster, S.W. **No. 86.**
 Harzer Natural Mineral Water Company, Limited, The, 135, London Wall, E.C. **No. 193.**
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 Hoff, M. and Leopold, 3, Charterhouse Buildings, E.C. **No. 190.**
 Holt, Henry P., S.E., 18, Park-row, Leeds. **No. 260b.**
 Hooper and Co., 7, Pall-mall East, S.W. **No. 178.**
 Hooper and Company, 121, Newgate-street, E.C. **No. 432.**
 Hopkinson, W.W., 141, Fetter-lane, E.C. **No. 241.**

- Horn and Son, 46, Elgin-road, Croydon. **No. 22b.**
- Hospitals of the Army and Navy. **No. 465.**
- House Improvement and Supply Association, Limited, The, 41 Parliament-street, S.W. **No. 373.**
- How, James, and Co., 73, Farringdon-street, E.C. **No. 16f.**
- Howard, Edward, 34, Upper Gloucester-place, N.W. **No. 306.**
- Howard, Heaton H., M.R.C.S., 1, Devonshire-road, South Lambeth. **No. 29d.**
- Howard and Sons, 27, Berners-street, W. **No. 442.**
- Howorth, James, Victoria Works, Farnworth, near Bolton, Lancashire. **No. 388.**
- Humphreys, J. C., 15, Albert Gate, Knightsbridge, S.W. **No. 285.**
- Hungarian State Railway, The Council of the, Budapest. **No. 111.**
- Hunt, Harry, 117, Newington Green-road, N. **No. 429.**
- Hutchison and Co., A., 3 and 4, Great Winchester-street, London Wall, E.C. **No. 406.**
- Ihlee and Horne, 31, Aldermanbury, E.C. **No. 328.**
- Indiarubber, Gutta Percha, and Telegraph Works Company, The, Limited, 106, Cannon-street, E.C. **No. 17.**
- Ingham and Sons, W., Wortley, near Leeds; and 35, Bucklersbury, E.C. **No. 266.**
- International Society for the Manufacture of Wound-dressing Materials, Schaffhausen, Switzerland. **No. 43.**
- Isenschmidt, Dr., 15, Sophien Strasse, Munich, Bavaria. **No. 140d.**
- Jamieson, W. and J., 10, Broad-street, Golden-square. **No. 50.**
- Jennings, George, Palace Wharf, Stangate, S.E. **No. 257.**
- Jeyes' Sanitary Compounds Company, Limited, 54 $\frac{1}{2}$, Bishopsgate-street, E.C. **No. 105.**
- Jones, Francis E., 20, Cockspur-street, Pall Mall, S.W. **No. 81.**
- Journeymen Plumbers. **No. 320, 321, & 322.**
- Joy, Albert Bruce, 76, Fulham-road, South Kensington. **No. 74.**
- Judge, Mark H., 8, Park-place Villas, London, W. **No. 61.**
- Kahnemann, Max, 3 and 4, Spandauerstrasse, Berlin. **No. 26.**
- Kappeller, H., jun., 2, Kettenbrückengasse, Vienna, V. **No. 14.**
- Karl, Heinrich, Olmutz. **No. 123.**
- Kaye, Joseph, and Co., College Chambers, High Holborn, W.C. **No. 396.**
- King's College Hospital, Portugal-street, Lincoln's Inn, W.C. **No. 458.**
- Kirby, H. and T., and Co., 14, Newman-street, Oxford-street, W. **No. 166.**
- Kite C., and Co., 117, Charlton-street, N.W. **No. 389.**
- Kopf's Extract of Meat Company, Limited, 2, Draper's-gardens, E.C. **No. 115.**
- Krohne and Sesemann, 8, Duke-street, Manchester-square, W. **No. 45.**
- Labus, Professor, 8, Rue S. Andrea, Milan. **No. 16b.**
- Ladies' Sanitary Association, 22, Berners-street, Oxford-street, W. **No. 148.**

- Lanchester, Henry J., 3, Abchurch-yard, E.C. **No. 72.**
 Landolt, Dr., 4, Rue Volney, Paris. **No. 16e.**
 Laura, Dr. Giambattista, 41, Via Cavour, Turin. **No. 230.**
 Lee, Robert J., M.D., 6, Savile-row, W. **No. 38d.**
 Leiter, Josef, 11, Mariannengasse, Vienna. **No. 44.**
 Leoni, S., 66, St. Paul's-street, New North-road, N. **No. 376.**
 Liebe, J. Paul, Dresden. **No. 176.**
 Lipowsky, Eduard, Heidelberg. **No. 140a.**
 Lloyd, Thomas, Winchester. **No. 384.**
 Lloyd, W. H., Heath-road, Harborne, near Birmingham. **No. 233.**
 Lloyd, J. and C., and Co., Verulam-street, Gray's Inn-road, E.C.
No. 103.
 Local Government Board, The, Whitehall, S.W. **No. 467.**
 Loefflund, Ed., Stuttgart. **No. 127.**
 Lœwenberg, Dr., 15, Rue Auber, Paris. **No. 16d.**
 London Hospital, The, Mile End, E. **No. 454.**
 London Necropolis Company, 2, Lancaster-place. Strand, W.C.
No. 371.
 Longden and Co., Phoenix Foundry, Sheffield. **No. 428.**
 Loreta, Professor Pietro, Bologna, Italy. **No. 16c.**
 Lyon, Washington, 1, Cooper's-court, Cornhill, E.C., and 85,
 Asylum-road, Peckham, S.E. **No. 364.**
 Macfarlan, J. F., and Co., North Bridge, Edinburgh. **No. 177.**
 Macfarlane and Co., Walter, Saracen Foundry, Possilpark, Glasgow.
No. 251.
 Mackenzie, G. Hunter, M.D., 1, Northumberland-street, Edinburgh.
No. 29e.
 Mackey, Mackey, and Co., 1 and 2, Bouverie-street, Fleet-street,
 E.C. **No. 232.**
 Maguire and Son, 10, Dawson-street, Dublin. **No. 282.**
 Maignen, P. A., 22 and 23, Great Tower-street, E.C. **No. 401.**
 Maltine Manufacturing Company, Limited, The, 92 and 93, Great
 Russell-street, W.C. **No. 200.**
 Marr, David, 27, Little Queen-street, W.C. **No. 40.**
 Marratt and Ellis, 63, King William-street, E.C. **No. 97.**
 Marshall, Thomas, 46, Leadenhall-street, E.C. **No. 124.**
 Martindale, William, 10, New Cavendish-street, W. **No. 171.**
 Matheson and Gardner, 59 and 61, Bridgewater-street, Liverpool.
No. 403.
 Matthews Brothers, 27, Carey-street, W.C. **No. 37.**
 Maw, Son, and Thompson, 7 to 12, Aldersgate-street, E.C. **No. 4.**
 Mayer and Meltzer, 71, Great Portland-street, W. **No. 46.**
 Mazzolini, Cav. Giovanni, 18, Via Quattro, Fontane, Rome.
No. 223.
 McIlroy, T., 7, Grafton-street, Fitzroy-square, W.C. **No. 162.**
 Medland, J. B., 12, Borough High-street, S.E. **No. 16a.**
 Merck, E., Darmstadt, Germany. **No. 213.**
 Messter, Ed., 99, Friedrich Strasse, Berlin, N.W. **No. 128.**
 Metz, Paul, 10, Jewin-street, E.C. **No. 18.**
 Middlesex Hospital, Berners-street, W. **No. 456.**

Middlesex Sanitary Association, 205 and 206, High Holborn, W.C.

No. 265.

Millikin and Down, 3, St. Thomas-street, Borough. **No. 5.**

Mitchell, Wm. Stephen, M.A., Fulham, S.W. **No. 70.**

Monk and Co., W., 103, Great Russell-street, W.C. **No. 153.**

Moorhouse and Co., J., Queen-street, Hulme, Manchester. **No. 185**

Morson, T., and Son, Southampton-row, W.C. **No. 216.**

Mottershead and Co., 7, Exchange-street, Manchester. **No. 24.**

Mouat, Frederick J., M.D., 12, Durham Villas, Kensington, W.

No. 91.

Moule's Patent Earth Closet Company, Limited, 5a, Garrick-street, W.C. **No. 317.**

Musgrave and Co., 97, New Bond-street, W., and Ann-street Iron Works, Belfast. **No. 412.**

Nachet, M., 17, Rue St. Severin, Paris. **No. 21.**

National Dwelling Society, Limited, The, 35, Spring-Gardens, S.W. **No. 58.**

National Hospital for the Deformed, 234, Great Portland-street.

No. 73.

Neale, Richard, M.D., 60, Boundary-road, N.W. **No. 98.**

Newberry, Francis, and Sons, 1, King Edward-street, Newgate-street, E.C. **No. 165.**

Newman, Henry, Winchester (with Samuel J. Newman, A.R.I.B.A.) **No. 80.**

Newman, S., 9 and 10, Railway Approach, London Bridge, S.E. **No. 136.**

Newman, Samuel J., A.R.I.B.A., 32, Abington-street, Northampton (with Henry Newman). **No. 80.**

New Marylebone Infirmary, Notting Hill, W. **No. 462.**

Newry Mineral Water Company, Limited, Downshire-road, Newry, **No. 184.**

Nixon, Newton H., Secretary to University College Hospital, W.C. **No. 140e.**

Nineteenth Century Building Society, Adelaide-place, London-bridge, E.C. **No. 149.**

Nycander, Professor, Georgstasse, 20, Bremen. **No. 76.**

Oliveti, Dr. Francesco, Naples. **No. 27.**

Order of St. John of Jerusalem in England, The, St. John's-gate, Clerkenwell, E.C. **No. 157.**

Owen, Henry, County-house, West Croydon. **No. 330.**

Packham and Co., Katherine-street, Croydon. **No. 183.**

Parker, John, Woodstock, Oxford. **No. 313.**

Parker, John Battishill, 6, Bradninch-place, Exeter. **No. 209.**

"Patentee," care of King and Co., 65, Cornhill, E.C. **No. 283.**

Pfleiderer, Paul, 37, Farringdon-street, E.C. **No. 212.**

Philpson, G. H., M.D., 7, Eldon-square, Newcastle-upon-Tyne. **No. 22e.**

Pickard, J. Reynard, 5A, Commercial-buildings, Leeds. **No. 315.**

Pickard and Curry, 195, Great Portland-street, W. **No. 41.**

Pillischer, 88, New Bond-street, W. **No. 10.**

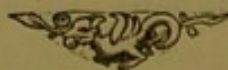
Planck, August, 16, Getreidemarkt, Vienna. **No. 121.**

- Pocock Brothers, 235, Southwark-bridge-road, S.E. **No. 156.**
 Poore, Dr. G. V., 30, Wimpole-street, W. (in conjunction with A. Waterhouse, A.R.A.) **No. 59.**
 Portway, Charles, and Son, Halstead, Essex. **No. 421.**
 Potter, Thomas, and Sons, 44, South Molton-street, W. **No. 420.**
 Pratt, Henry J., 3, Blossom-street, York. **No. 180a.**
 Priestley, Mrs., 17, Hertford-street, Mayfair, W. **No. 353.**
 Pritchett, G. E., F.R.I.B.A., 20, Spring-gardens, S.W. **No. 248.**
 Price's Patent Candle Company, Belmont Works, Battersea, S.W. **No. 119.**
 Pulvermacher, Isaac L., 194, Regent-Street, W. **No. 32.**
 Purnell, J., and Son, 15A, Kensington Place, Page-street, Westminster. **No. 342.**
 Quirk, Barton, and Co., 61, Gracechurch-street, E.C. **No. 372.**
 Radiator Range Company, The, 43, Cannon-street, E.C. **No. 431.**
 Ramsey, Wm., 55, Farringdon-Street, E.C. **No. 352.**
 Renner, Dr. Charles, 80, Portsdown-road, Maida Vale, W. **No. 180e.**
 Richards, John M., Great Russell-Street, W.C. **No. 102.**
 Richardson, John, and Co., 10, Friar-lane, Leicester. **No. 163.**
 Rimmel, Eugene, 96, Strand, W.C. **No. 109.**
 Ritchie and Co., 23, St. Swithin-lane, E.C. **No. 382.**
 Roberts and Cie., 76, New Bond-street, W. **No. 217.**
 Robins, Edward C., F.R.I.B.A., 14, John-street, Adelphi. **No. 62.**
 Robinson and Sons, Wheat Bridge Mills, Chesterfield. **No. 204.**
 Ross and Co., 164, New Bond-street, W. **No. 7.**
 Rosser and Russell, 22, Charing-cross, S.W. **No. 427.**
 Royal Free Hospital, Gray's Inn Road, W.C. **No. 463.**
 Russell, William, 57, George-street, Portman-Square. **No. 20.**
 Russell and Erwin Manufacturing Company, Limited, 47, Upper Thames-street, E.C., and New York. **No. 394.**
 Rutterford, G. W., 11, Poland-street, Oxford-street, W. **No. 47.**
 St. Bartholomew's Hospital, West Smithfield. E.C. **No. 451.**
 St. George's Hospital, Hyde-park-corner, S.W. **No. 455.**
 St. Mary's Hospital, Cambridge-place, Paddington, W. **No. 461.**
 St. Thomas's Hospital, Albert Embankment, Westminster-bridge, S.E. **No. 453.**
 Salmon, Ody, and Co., 292, Strand, W.C. **No. 203.**
 Salt and Son, 21, Bull-street, Birmingham. **No. 39.**
 Sanitary Appliance Company, The, Grafton-street, Ellor-street, Pendleton, Manchester. **No. 88.**
 Sanitary Assurance Association, 5, Argyll-place, Regent-street, W. **No. 141.**
 Sanitary Engineering and Ventilation Company, 115, Victoria-street, S.W. **No. 286.**
 Sanitary Paint Company, The, 34, Leadenhall-street, E.C. **No. 289.**
 Sanitas Company, Limited, The, Bethnal-green, E. **No. 108.**
 Savory and Moore, 143, New Bond-street, W. **No. 3.**
 Schieffelin, W. H., and Co., New York. **No. 169.**

- Schmidt, Victor, and Son, 48, Alleegasse, Wieden, Vienna. **No. 221.**
- Schneider, E. A., 4, Cambridge-villa, Chesterton-road, Cambridge. **No. 180b.**
- Schramm, K. R., 64, Belmont-street, Chalk Farm-road, N.W. **No. 170.**
- Scott, Bowes, and Read, Broadway Chambers, Westminster. **No. 340.**
- Seward, Henry, F.C.S., 147, Queen Victoria-street. **No. 305.**
- Seymour, Philip William, Guy's Hospital, S.E. **No. 34.**
- Shanks and Co., Tubal Foundry, Barrhead, near Glasgow. **No. 281.**
- Sharp, C. H., and Co., 11, Holborn-circus. **No. 327.**
- Sharp, Henry, Jones, and Co., Bourne Valley Pottery, Poole. **No. 341.**
- Shaw, Alfred, St. Ann's, Lewis. **No. 316.**
- Shaw, M.A., Heath Villa, Leighton Buzzard. **No. 369.**
- Shone Drainage, Sewerage, and Water Supply Company, Limited, The, 3, Westminster-chambers, S.W. **No. 284.**
- Siemens, Frederick, 5, Fabrik-strasse, Dresden. **No. 443.**
- Silber Light Company, The, 49, Whitefriars-street, E.C. **No. 380.**
- Silicated Carbon Filter Company, Limited, The, Battersea, S.W. **No. 402.**
- Smale Brothers, 19, Great Marlborough-street, W. **No. 48.**
- Silicate Paint Company, The, 107, Cannon-street, E.C. **No. 287.**
- Slater, Henry and Leigh, 12, Dantzic-street, Manchester. **No. 206.**
- Smith and Barnes, 43, Bermondsey-square, S.E. **No. 325.**
- Smith, T. and H., and Co., 12, Worship-street, E.C. **No. 168.**
- Smith and Stevens, Archd., 48, Leicester-square, W.C. **No. 425.**
- Smith, Thomas, and Co., Canal Potteries, Old Kent-road, S.E. **No. 269.**
- Smith, Professor T. Roger, F.R.I.B.A., 10, Lancaster-terrace, Somerset-house, W.C. **No. 55.**
- Smith, Elder, and Co., 15, Waterloo Place, S.W. **No. 145.**
- Society for the Prevention of Blindness, 48, Wimpole-street, W. **No. 117.**
- Smith and Turner, 56, Bartholomew-close, E.C. **No. 397.**
- Snell, H. Saxon, F.R.I.B.A., 22, Southampton-buildings, W.C. **No. 56.**
- Somzée, Leon, 217, Rue Royale, Brussels. **No. 110.**
- Southall Brothers and Barclay, Birmingham. **No. 225.**
- Spence, Peter, Pendleton Alum Works, Manchester. **No. 106.**
- Spence's Metal Manufacturing Company, Limited, 31, Lombard-street, E.C. **No. 354.**
- Spitzert, Dr. Bernhard, Szabadka, Hungary. **No. 222.**
- Spongy Iron Domestic Filter Company, The, 505, Oxford-street, W.C. **No. 400.**
- St. John's Ambulance Association, St. John's-gate, Clerkenwell. **No. 159.**

- Steel and Garland, 45, Holborn Viaduct, E.C. **No. 346.**
- Stevens, Charles R., 56, Loampit Vale, Lewisham. **No. 383.**
- Stevens, H. K., Flitwick Mineral Springs, near Ampthill, Beds. **No. 405.**
- Steven Brothers and Co., 35 and 36, Upper Thames-street. **No. 250.**
- Stidolph, Thos. Wm., 82, High-street, Dartford, Kent. **No. 155.**
- Stiff, James, and Sons, London Pottery, Lambeth, S.E. **No. 255.**
- Stretton, Samuel, M.R.C.S., Kidderminster. **No. 160.**
- Strode and Co., 48, Osnaburgh-street, N.W. **No. 426.**
- Sun Auto-Pneumatic Lighting and Heating Company, The, 115, Southwark-street, S.E. **No. 436.**
- Swift, James, and Son, 81, Tottenham-court-road, W.C. **No. 8.**
- Tabrich, Jules, 97, Boulevard St. Germain, Paris. **No. 28.**
- Tapling, Thos., and Co., Gresham-street, E.C. **No. 409.**
- Teale, T. Pridgin, M.B., F.R.C.S., 38, Cookridge-street, Leeds. **No. 142a.**
- Thames Bank Iron Company, The, Upper Ground-street, S.E. **No. 280.**
- Thaulow, Dr., Modums Kuranstalt, Norway. **No. 69.**
- Thistleton, J. B., 1, Old Quebec-street, W. **No. 11.**
- Thomason, Yeoville, F.R.I.B.A., 40, Bennett's-hill, Birmingham. **No. 63.**
- Tommasi, Dr., 12, Borgognissanti, 2 P., Florence. **No. 38f.**
- Tonks, George T., 62, Rea-street, Birmingham. **No. 243.**
- Tonks, William, and Sons, Moseley-street, Birmingham. **No. 242.**
- Townson and Mercer, 89, Bishopsgate-street Within, E.C. **No. 19.**
- Tripier, A., 4, Rue de Hanovre, Paris. **No. 78.**
- Trübner and Co., 56 and 57, Ludgate-hill. **No. 144.**
- Tudor, E. C. Buchanan, Goole, Yorkshire. **No. 260a.**
- Turner, Ernest, F.R.I.B.A., 246, Regent-street, W. **No. 64.**
- Twining, Thomas, Perryn House, Twickenham. **No. 96.**
- Tylor, Henry, and Son, 28 and 30, East-road, City-road, N. **No. 238.**
- Tylor and Sons, 2, Newgate-street, E.C. **No. 256.**
- Ulbrich, Anton, Pullna, Bohemia. **No. 218.**
- Underhay, F. G., Crawford Passage, Farringdon-road, E.C., **No. 326.**
- Universal Ventilating, Sanitary and Engineering Company, Limited, The, Lewisham-bridge, S.E. **No. 390.**
- University College Hospital, Gower-street, W.C. **No. 457.**
- Valentine, Mann S., Richmond, Va., U.S.A. **No. 174.**
- Vallardi, Dr. F., 15, Via Disciplini, Milan, Italy. **No. 147.**
- Vajda, Dr., 28, Naglergasse, Vienna. **No. 25e.**
- Verity Bros., 1, Stanhope-street, Euston-road, and 127, Regent-street, W. **No. 416.**
- Victoria Bitter Water, Company, 92, Great Russell-street, W.C. **No. 198.**
- Waiz Brothers, Drs., Cormans, Austrian Tyrol. **No. 79.**
- Walker, Alfred, 8, Crystal Palace-road, East Dulwich, and 94, Wellington-street, Leeds. **No. 362.**
- Waller, and Co., 47, Fish-street-hill, E.C. **No. 249.**

- Walton, Frederick, and Co., Sunbury-on-Thames, and 9, Berners-street, W. **No. 288.**
- Ward, John, 245 and 246, Tottenham-court-road, W.C. **No. 152.**
- Warner, Edward, Stowmarket. **No. 263.**
- Warner, John, and Sons, 27, Jewin-crescent, Cripplegate, E.C. **No. 333.**
- Waterhouse, A., A.R.A., 20, New Cavendish-street, W. (In conjunction with Dr. G. V. Poore.) **No. 59.**
- Weare, Robert, 178, Higher Broughton, Manchester. **No. 311.**
- Weeks and Co., J., King's-road, Chelsea. **No. 414.**
- Weiss, J., and Son, 62, Strand, W.C. **No. 53.**
- Wells, George, 12, North-street, Westminster. **No. 210.**
- Westminster Hospital, opposite Westminster Abbey, S.W. **No. 459.**
- White, Samuel S., Chesnut-street, corner of Twelfth-street, Philadelphia, U.S.A. **No. 51.**
- White, William, F.S.A., 30a, Wimpole-street, W. **No. 262.**
- Wilcock and Co., Burmantofts, Leeds. **No. 279.**
- Wilson, J. P., Reading. **No. 180c.**
- Wilson Engineering Company, Limited, The, 247, High Holborn, W.C. **No. 444.**
- Windler, H., 3, Dorotheen Strasse, Berlin. **No. 12.**
- Winfield and Co., Cambridge-street Works, Birmingham, and 47, Holborn Viaduct, E.C. **No. 419.**
- Winter, R. J., and Co., 57 and 59, Goodge-street, Tottenham-court-road, W.C. **No. 228.**
- Wood, James, Clythia Park-road, Newport, Monmouthshire. **No. 358.**
- Woodward, James, Swadlincote, near Burton-on-Trent. **No. 323.**
- Woollams, William, and Co., 110, High-street, Manchester-square, W. **No. 439.**
- Wordsworth and Co., H., 6, Sloane-street, Knightsbridge, S.W. **No. 140c.**
- Worthington, Thos., F.R.I.B.A., 110, King-street, Manchester. **No. 54.**
- Wortley Fire Clay Company, The, Elland-road, Leeds. **No. 365.**
- Wright, C., and Co., 108, New Bond-street, W. **No. 9.**
- Young's Paraffin Light and Mineral Oil Company, Limited, 7, West George-street, Glasgow. **No. 120.**
- Young and Postans, 35, Baker-street, W. **No. 214.**
- Zemsch, August, Worms-on-Rhine. **No. 38e.**
- Zimmermann, A. and M., 21, Mincing-lane, E.C. **No. 175.**





Parkes Museum of Hygiene.

LIST OF SUBSCRIPTIONS.

Those marked with an asterisk are Annual Subscriptions.

Her Majesty the Queen	...	...	£50	0	0
H.R.H. Prince Leopold	...	...	20	0	0
H.R.H. the Duke of Cambridge	...	...	10	0	0
The Baroness Burdett-Coutts	...	...	50	0	0
			£	s.	d.
Abraham, G. T. Frederick, Lock Hospital	...	...	1	1	0
Acland, Sir T. Dyke, Bart., Athenæum Club, S.W.	...	...	5	0	0
Agnew, Dr. J. W., Hobart Town, Tasmania	...	...	10	10	0
Airy, Hubert, 3, Kidbrook-grove, Blackheath, S.E.	...	...	1	1	0
Aitchison, G., 150, Harley-street	...	...	1	1	0
Aitken, Dr. (Netley)	...	...	2	2	0
Alford, S. S., 51, Haverstock-hill	...	...	2	2	0
Anonymous (Reading)	...	...	2	2	0
Atwool, Josiah, 9, Altenbury-gardens, Clapham-common	...	...	10	10	0
Barker, Arthur E., 87, Harley-street, W.	...	...	1	1	0
*Barnard, Geo., M.R.C.S., 42, Colville-terrace, Bayswater, W.	...	...	5	5	0
Bastian, Charlton, M.D., 20, Queen Anne-street, W.	...	...	2	2	0
Bateman, Thos., Devereux-Court, Temple	...	...	1	1	0
Beck, Marcus, 30, Wimpole-street, W.	...	...	2	2	0
Beddoe, John, M.D., Mortimer House, Clifton...	...	...	2	2	0
Bell, A. W. C., 31, Fopstone-road, Earl's-court, S.W.	...	...	5	0	0
Bell, the Rev. G. C., Queen's Hotel, Norwood	...	...	2	2	0
Belper, Lord, 75, Eaton-square, S.W.	...	...	10	10	0
Benham, James, 50, Wigmore-street, W.	...	...	1	1	0
Best, Palemon, M.B., 64, Eastgate, Louth, Lincolnshire	...	...	2	2	0
Billing, Archibald, M.D., 34, Park-lane, W.	...	...	2	2	0
Bolding and Sons, John, 19, South Molton-street, W.	...	...	10	10	0
Booth, James, C.B. (Deceased), 2, Princes-gardens, S.W.	...	...	20	0	0
*Bostel, Daniel Thos., Brighton	...	...	1	1	0
Brace, Dr., 7, Queen's Gate-terrace, S.W.	...	...	5	5	0
Brown, Frederick J., M.D., Rochester, Kent	...	...	1	1	0
Buchan, William Paton, 21, Renfrew-street, Glasgow	...	...	1	1	0
Buchanan, George, M.D., 24, Nottingham-place, W.	...	...	5	5	0
Bucknill, Dr., 37, Wimpole-street, W.	...	...	10	10	0
C. A. S., 7, 8, and 9, Broad-street, Gordon-square, W.C.	...	...	1	1	0
Cadge, W., Norwich	...	...	5	5	0
Catterson, S. P., 34, and 36½, Great Dover-street, S.E.	...	...	5	5	0
Cave, Rt. Hon. Stephen, M.P., 35, Wilton-place, S.W.	...	...	5	5	0
*Chadwick, Edwin	...	...	1	0	0
Chappuis, P. E., 69, Fleet-street, E.C.	...	...	1	1	0
Chattock, Miss Frances C., Solihull, Birmingham	...	...	5	0	0
Chavasse, Pye, H., F.R.C.S., 214, Hagley-road, Egbaston, Birmingham	...	...	2	2	0
Clark, Rev. J. M.	...	...	1	1	0
Clarke, T. Chatfeild, F.R.I.B.A., 132, Westbourne-terrace, Hyde Park	...	...	1	1	0
*Clarke, T. Chatfeild, F.R.I.B.A.	...	...	1	1	0
Clothworkers' Company, The, 41, Mincing-lane, E.C.	...	...	21	0	0
Clothworkers' Company, The (Second Donation)	...	...	52	10	0
Clover, J. T., F.R.C.S., 3, Cavendish-place, W.	...	...	5	5	0
Cock, F., M.D., 1, Westbourne Park-terrace, W.	...	...	2	2	0
Corfield, W. H., M.A., M.D., 10, Bolton-row, Mayfair, W.	...	...	5	5	0
*Corfield, W. H., M.A., M.D.	...	...	1	1	0
Cranbrook, Lord, 17, Grosvenor-crescent, S.W.	10	10	0

	£	s.	d.
Crossley, David, Brighouse, Yorkshire...	...	1	1 0
Cunningham, D., M.D., India	...	5	0 0
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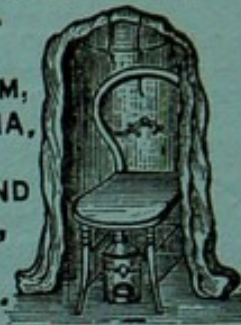
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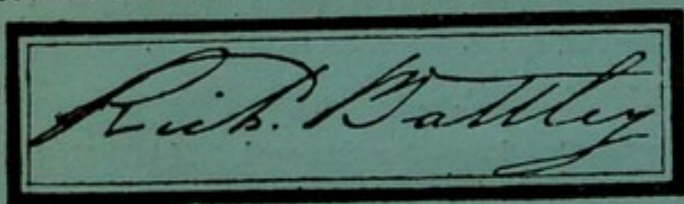
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The Loaves can be sent through the Post, 1s. each.

Dr. PAVY, in his recent work on "Diabetes," p. 245, says:—

Mr. Bonthron, of 106, Regent Street, has recently succeeded in producing some Gluten Biscuits and Bread, which are more eatable than anything of the kind I have ever yet met with. The Biscuits present somewhat the character of a cracknel; they eat short and crisp, and are readily reducible in the mouth, have no unpleasant taste, and, consumed with other food, possess the power of cleansing the palate. The Bread is moist, and will not keep good for more than about ten days.

The Medical Times & Gazette, under the head of New Inventions, says:

To obtain a bread at once palatable and nutritious, and at the same time sufficiently free from starchy material to render it suitable for Diabetic patients, has long been much to be desired. But although almond biscuits, gluten bread and biscuits, and bran biscuits have been introduced, the desired end has not hitherto been attained. In Mr. Bonthron's biscuits we have probably a nearer approach to perfect success than in any other we have seen, for although they are not absolutely free from starch—that, indeed, being hardly attainable with such materials as gluten and bran—still the percentage is very small—in fact, practically unimportant. Bran bread and biscuits are prepared from carefully powdered and bolted bran, but it is almost impossible to separate the starchy material in its entirety from these constituents, and the bread itself is heavy, and we might say disagreeable. With gluten the same objection applies, only in another way. It is next to impossible to get it thoroughly freed from starch, and the bread formed from it is tasteless and insipid. In Mr. Bonthron's biscuits we have a combination of the two along with a proportion of albumen and a small quantity of butter, which gives a biscuit sufficiently free from starch to be used by a Diabetic patient with impunity.

The Lancet, under the head of Analytical Records, says:—

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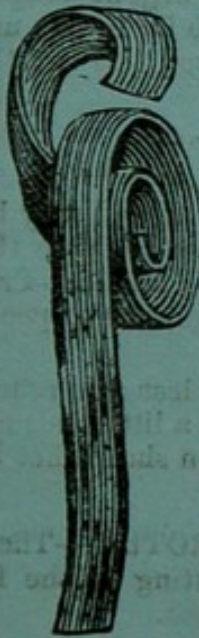
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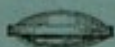
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THE covering entirely disguises the taste, and, because of the ovoid form, they are easily taken by persons who cannot swallow round pills—even when coated with sugar. The Pills are perfectly sealed by a complete envelope of pure transparent gelatine—applied while the mass is soft—protecting all delicate substances from the oxidising influences of the atmosphere, and keeping the Pills in a perfectly soluble condition. The capsule dissolves very quickly when placed in the mouth. They are not subjected to that injurious application of heat, which so greatly impairs the ordinary coated Pills.

THE LANCET SAYS:—"They are so full of taste and neatness as to give the medicines an inviting appearance, and can be easily be received by the mouth and the oesophagus."

THE BRITISH MEDICAL JOURNAL SAYS:—"They well deserve the favourable consideration which they have gained from the medical profession for purity and integrity." "They are all that can be desired in point of solubility."

THE MEDICAL PRESS AND CIRCULAR SAYS:—"We have seen nothing recently to compare with these, either in efficacy or appearance."

LIST OF FORMULÆ

Of the British Pharmacopœia and other Standard Authorities.

Purest quality and Exactness of composition can be relied upon with confidence by the Profession.

PUT UP IN BOTTLES CONTAINING 100 EACH.

Chemists dispense any number of these Pills that may be ordered in prescriptions.

The dash denotes fractions, as 1-2 for half.

A

Acid, Salicylic.
(See Salicylic Acid.)

Aloes Barb. B.P. 5 gr.
Aloes Barb. Pulv. 2 1-2 gr.
Conf. Rosæ, 1, 1-4 gr.
Saponis Pulv., 1 1-4 gr.
Ol. Carui.

Aloes, Dilute. 4 gr.
(Dr. Hall's Dinner Pill.)

Aloes Barb. Pulv.
Ext. Glycyrrh., Saponis Pulv.
Theriaca, aa, 1 gr.

Aloes, Socotrine, B.P. 5 gr.
Aloes Soc. Pulv., 2 1-2 gr.
Conf. Rosæ, 1 1-4 gr.
Saponis Pulv., 1 1-4 gr.
Ol. Myristica.

Aloes & Assafœtida, B.P. 5 gr.
Aloes Soc. Pulv.
Saponis Pulv. Assafœtida

Conf. Rosæ, aa, 1 1-4 gr.

Aloes & Iron, B.P. 5 gr.
Aloes Barb. Pulv., 1 gr.
Ferri Sulph., 3-4 gr.
Pulv. Cinnam. Co., 1 1-2 gr.
Conf. Rosæ, 1 3-4 gr.

Aloes & Myrrh. B.P. 3 gr.
Aloes Soc., 1 gr. Croci,
Myrrhæ, 1-2 gr. [1-4 gr.]

Conf. Rosæ, 1 1-4 gr.

Aloes & Myrrh. B.P. 5 gr.
Aloes Soc., 1 2-3 gr.
Croci, 5-12 gr.
Myrrhæ, 5-6 gr.
Conf. Rosæ, 2 1-12 gr.

Alterative. (See Calomel, Co., B.P.)

Anti-Bilious.
(See Cathartic, Comp. U.S.P.)

Anti-Malarial. (See Quinia Comp.)

Aperient. (See Podoph., Comp.)

Arsenious Acid. 1-50 gr.
Great care is exercised to insure exact quantity in each.

Assafœtida, Comp. B.P. 5 gr.
Assafœtida.

Galbani, aa, 1 3-7 gr.
Myrrhæ, 1-37 gr.
Theriaca, 5-7 gr.

B

Blue Pill. (See Hydrarg.)

C

CALCI SULPHID, 1-4 and 1-2 gr.

Calomel, Colocynth, &
Hyoscymus.
Hyd. Subchlor, 1 gr.
Ext. Coloc. Co., 3 gr.
Ext. Hyoscy., 1 gr.

Calomel, Comp., B.P. 5 gr.
(Plummer's)

Hyd. Subchlor.,
Antim. Sulph., aa, 1 1-8 gr.
Res. Guaiac. Pulv., 2 1-4 gr.
Ol. Ricini.

Calomel & Opium.
Hyd. Subchlor., 2 1-2 gr.
Opil Pulv., 1 gr.

CAMPHOR, MONOBROMIDE, 2 gr.
An elegant form for administering this salt. Monobromide of Camphor is very difficult to dispense in solution.

CATHARTIC, COMP., U.S.P.
(Purgative.)

Ext. Jalapæ Pulv.
Hyd. Subchlor., aa, 1 gr.
Ex. Coloc. Co. Pulv., 1 1-3 gr.
Gambogiæ Pulv., 1-4 gr.

A very popular prescription.
Dose—one to three.

Cathartic, Vegetable.—
Improved Cath.

(See Laxative, Veg.)

Colocynth. Comp. B.P. 4 gr.
Coloc. Pulvæ Pulv., 4-5 gr.
Aloes Barb. Pulv.
Scam. Pulv., aa, 1 3-5 gr.
Potass. Sulph.
Ol. Caryoph.

Colocynth, Comp., B.P. 5 gr.
Coloc. Pulvæ Pulv., 1 gr.
Aloes Barb. Pulv.
Scammon Pulv., aa, 2 gr.
Potass Sulph.
Ol. Caryoph.

Colocynth, Comp. & Calomel. 5 gr.
Ext. Coloc. Co., 4 gr.
Hyd. Subchlor., 1 gr.

Colocynth, Comp. & Hydrarg. 5 gr.
Pil. Coloc. Comp., 3 gr.
Pil. Hydrarg., 2 gr.

Colocynth & Hyoscymus, B.P. 5 gr.
Pil. Coloc. Comp., 3 1-3 gr.
Ext. Hyoscy., 1 2-3 gr.

Conii Comp., B.P. 5 gr.
Ext. Conii, 4 1-6 gr.
Ipecac. Pulv., 5-6 gr.
Theriaca.

GOPAIBA & CUBEBS. 5 gr.
Pil. Copaibæ, 3 gr.
Ol. Resinæ Cubebs., 3 gr.

D

Digitalin, Pure, Crystal. 1-60 gr.
Dinner Pill, Dr. Hall's
(See Aloes, Dilute.)

Dover's Powder. 5 gr.
(See Ipecac. Comp.)

BURROUGHS, WELLCOME, & CO., LONDON.

(CONTINUED ON NEXT PAGE)

ADVERTISEMENTS.

CAUTION.—SPECIFY "McK. & R." PILLS. No. in Catalogue, 2

E

Ext. Colocynth, Comp., B.P. 5 gr.
Coloc. Pulv., 1-5 gr.
Saponis Pulv., 3-5 gr.
Ext. Aloes Soc., 2-5 gr.
Cardam. Sem., 1-5 gr.
Scammon Res., 4-5 gr.

Ergotin 3 gr.
Each pill contains the active principles of 30 grains Ergot of Rye, or 30 minims of the Liquid or Fluid Extract.

F

Ferri Carb., B.P. 5 gr.
Ferri Carb. Sacch., 4 gr.
Conf. Rosæ, 1 gr.
Ferri et Quiniæ Cit. B.P. 2 gr.
Ferri Cit., 1-2 gr.
Quiniæ Cit., 1-2 gr.
Ferrum Redactum. 1 gr.

H

Hydrarg. B.P. 1, 2, 3, & 5 gr.
(Blue Mass).
Hydrarg., Coloc. et Hyoscy.
Pil. Hydrarg., 1 gr.
Ex. Colocynth Co., 3 gr.
Ex. Hyoscy., 1 gr.
Hydrarg. Iod. Rub. 1-16 gr.
Hydrarg. Iod. Vir. 1-4 gr.
The Proto-Iodide is freshly prepared and is perfectly preserved from oxidation by the capsule covering.
Hydrarg. Subchlor. Comp., B.P. 5 gr.
(See Calomel, Comp.)
Hydrastia 1-2 gr.
(White Alkaloid).
Representing the tonic properties of Hydrastis Canadensis.

I

Ipecac. Comp. Pulv. 5 gr.
(Ipecac. and Opium).
An agreeable medium for exhibiting this exceedingly nauseous compound.
Ipecac. & Squills, B.P. 5 gr.
Ipecac. Co. Pulv., 3 gr.
Ammoniac Pulv., 1 gr.
Scillæ Pulv., 1 gr.
Theriaca.
Iodoform 1 gr.
Iron and Compounds.
(See Ferri.)

L

LAXATIVE, VEGETABLE.

(Imp. Cathartic).
Res. Podoiph.
Ext. Hyoscy.
Ext. Tarax., aa, 1-4 gr.
Ext. Coloc. Co. Pulv., 1 gr.
Jalapæ Pulv.
Res. Leptand., aa, 1-2 gr.
Ol. Menth. Pip.
Dose—one to three.
Lead and Opium. (See Plumbi.)
Liver Pill. (See Cath. Co. U.S.P.)

M

Mercury. (See Hydrarg.)
Morphia, Hydrochlorate.
1-8 & 1-4 gr.

N

Neuralgia.
(See Phosphorus and Combinations.)

O

Opium. (See Soap Comp.)

P

Pepsin, Pure, Concentrated. 1 gr.
Each Pill equal in digestive properties to 5 gr. Pepsin B.P.

PHOSPHORUS.

1-30, 1-50, & 1-100 gr.
Phosphorus & Iron.
Phosphor. Pur., 1-50 gr.
Ferri Redact., 2 gr.
Phosphorus & Nux Vomica.
Phosphor. Pur., 1-50 gr.
Ex. Nuc. Vom., 1-4 gr.
Phosphorus, Nux Vomica, & Iron.
Phosphor. Pur., 1-50 gr.
Ex. Nuc. Vom., 1-4 gr.
Ferri Carb., 1 gr.
Phosphorus & Quinia.
Phosphor. Pur., 1-50 gr.
Quiniæ Sulph., 1 gr.
Phosphorus & Valer. Zinc.
Phos. Pur., 1-50 gr.
Zinci Valer., 1 gr.
Plumbi et Opio, B.P. 5 gr.
Plumbi Acet., 3-4 gr.
Confect. Rosæ, 5-8 gr.
Opil Pulv., 5-8 gr.
Plummer's.
(See Hydrarg. Subchlor. Co.)
Podophyllin. 1-4 & 1-2 gr.
Podophyllin, Comp.
Podoph. Res., 1-2 gr.
Ext. Coloc. Co., 2 gr.
Ext. Hyoscy., 1-gr.
Purgative.
(See Cathartic, Comp. U.S.P.)

Q

QUINIA, BI-SULPH.

1-4, 1-2, 1, 2, 3, 4, & 5 gr.
Quinia, Bi-Sulph. (Soluble Sulphate) dissolves in 10 parts of Water, while it requires 700 parts of water to dissolve the ordinary Sulphate of Quinine.

Quinia Comp. (Anti-Malarial).
Quiniæ Sulph.,
Cinchonid, Sulph., aa 1 gr.
Acid, Carbolic
Mentha, Camphor, aa 1-8 gr.
Acid, Arsenios, 1-40 gr.
Capsici Pulv., 1-4 gr.

This Pill is largely prescribed in the most severe malarial districts of America with remarkable results.

R

Rhei Comp. B.P. 5 gr.
Rhei Pulv., 1-4 gr.
Myrrhæ Pulv., 5-8 gr.
Aloes Soc. Pulv., 1 gr.
Theriaca, 1-2 gr.
Saponis Pulv., 5-8 gr.
Ol. Menth. Pip.
Rhei Comp. et Hydrarg.
Pil. Rhei Comp., 3 gr.
Pil. Hydrarg., 3 gr.
Rheumatic
(See Salicylic Acid, Comp.)

S

SALICYLIC ACID. 2 & 5 gr.
Salicylic Acid Comp.,
(Rheumatic).
Acid. Salicylic, 5 gr.
Morphiæ Hydrochlor., 1-8 gr.
Saponis Comp., B.P. 5 gr.
(Pil. Opil.)
Opil Pulv., 1 gr.
Saponis Pulv., 4 gr.
Squills, Comp. B.P. 5 gr.
Scillæ Pulv., 1 gr.
Ammoniac. Pulv.
Saponis Pulv.
Zingiber. Pulv., aa, 4-5 gr.
Theriaca, 1-35 gr.
Strychnia. 1-50 gr.
We use great care to insure exact quantity in each.

Z

Zinc, Valerianate 1 gr.
Zinc, Phosphide. 1-4 & 1-2 gr.

We would recommend Practitioners to prescribe these Pills in original Bottles of 100 each, whenever convenient so to do.

Private Formulæ of 3,000 or more Pills prepared to Order.

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Carbolic Preparations
ARE
MORE EFFICIENT AND CHEAPER
THAN
ALL OTHER DISINFECTANTS,
A FACT
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UNBIASSED SCIENTIFIC
EXPERIMENTS.

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Cases of Debility.

Ferro Manganique Elixir.

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Prices from 21s.



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Patent Revolving Bed-Table.

Adjustable to any height or inclination, for reading and writing.

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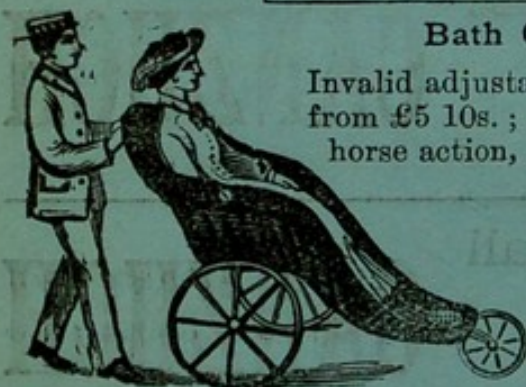


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Bath Chairs, £2 2s.

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Merlin Chairs, £5 5s.; Bed Tables from 15s., &c.

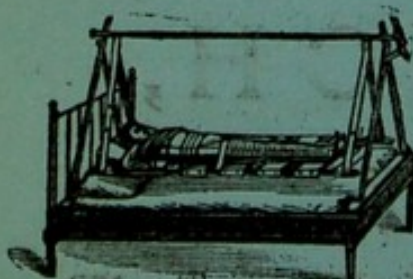


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GREAT EXHIBITION PRIZE MEDAL, 1851. INTERNATIONAL PRIZE MEDAL, 1862,
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From 10 to 2.

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COMPOUND

COD LIVER OIL EMULSIONS.

THESE Preparations (now on view at the International Medical and Sanitary Exhibition) are the result of a Pharmaceutical and Mechanical process, whereby Cod Liver Oil is made palatable, easy of Digestion and Assimilation, and combined with other valuable therapeutic agents.

They contain 85 per cent. of the finest Cod Liver Oil.

There are four different preparations, designated Nos. 1, 2, 3, and 4, according to following

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Compound Cod Liver Oil Emulsion,

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Each ounce contains, besides emulsifying and flavouring ingredients, 7 drs. (by measure) of the finest Cod Liver Oil, 2 grs. of Pepsine, 5 grs. Hypophosphite of Lime, and 1 dr. of the Syrup of the Lactophosphate of Lime.

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Contains, in addition to No. 1, one grain Sulphate of Quinine in each ounce.

Compound Phosphorised Cod Liver Oil Emulsion.

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Contains, in addition to No. 1, one-fifteenth of a grain of free Phosphorus in each ounce.

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Contains, in addition to No. 3, one grain Sulphate of Quinine in each ounce. In each case the Emulsion is perfect and permanent, and does not separate.

Prepared only by JAMES N. DAVIDSON, Pharmaceutical Chemist, Dundee.

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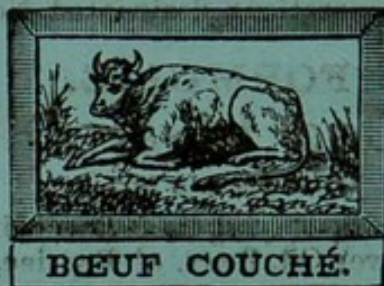
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For the use of Invalids, as a Restorative Tonic.

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W. F. W. ECKELL, MANUFACTURER OF Pure Extract of Malt.

Prepared in Vacuo at the Old Established Laboratory, The Swan,
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ECKELL'S PURE MALT EXTRACT possesses highly digestive and nutritious properties, and is acknowledged to be the best remedy for Consumption, Hooping Cough, Bronchitis, and all Throat and Chest Affections. It is highly recommended for Nervous Debility, Indigestion, Hæmorrhage, and pains in the Epigastrium. *Malt Extract is best used dissolved in a warm fluid, as Cocoa, Coffee, Tea, or Milk.*

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HELD AT THE

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WITH SPEECHES BY

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SIR GEORGE PALMER, M.P., MR. ERASMUS WILSON, F.R.S.
SIR WILLIAM JENNER, Bart., M.D., K.C.B., F.R.S., MR. GEORGE GODWIN, F.R.S., and
SIR JOSEPH FAYRER, K.C.S.I., M.D., F.R.S.

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Pliable, Adhesive, Antiseptic, Non-irritating. 3-yard Rolls, 4s.

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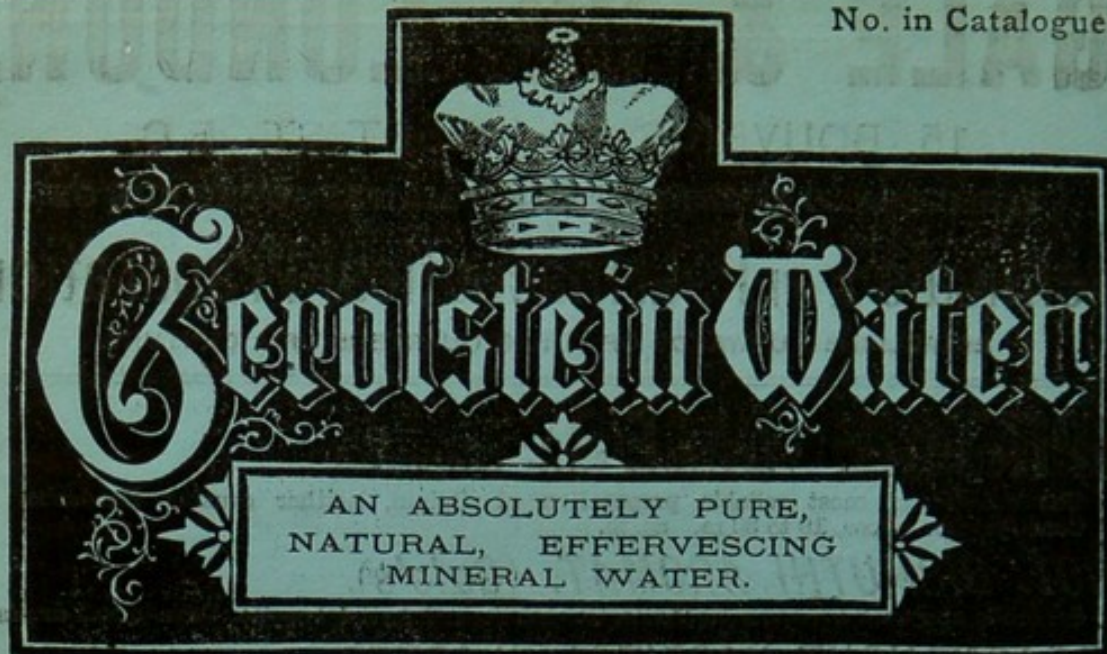
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DEAR SIR,—In reply to your letter of the 12th inst., I note that your former Agent is now trying to introduce some other article than "your" Hoff's Malt Extract, which was being supplied to him by you when I examined the Hoff's Malt Extract procured through him, and upon the analysis of which I commented in my Paper "On the Influence of Malt Liquors upon Digestion and Nutrition," read to the Philosophical Society of Glasgow, 17th April, 1878, and am quite astonished to learn that he allows himself to use my name and paper for the purpose of advertising a Malt Extract which does not come from "your" Hamburg Works, and with which you have no connection whatever.

The use of my name in conjunction with your former Agent's Caution Advertisement is quite unauthorised, and misleading to the profession and the public, as he has distinctly used my name formerly in recommending your article, and is now using it in recommending that of somebody else.

To M. HOFF, Esq., Hamburg.

Yours truly,
(Signed) J. J. COLEMAN.

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OF

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
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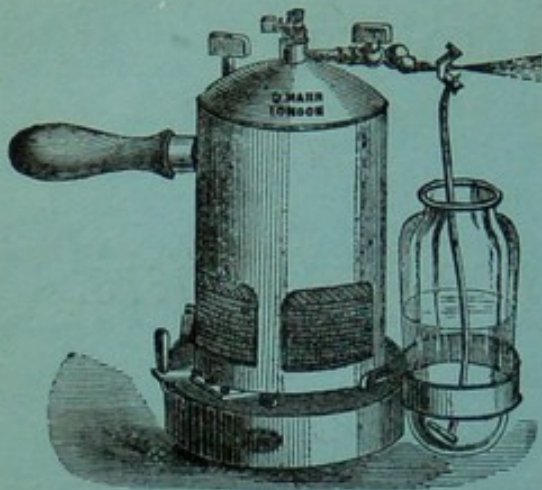
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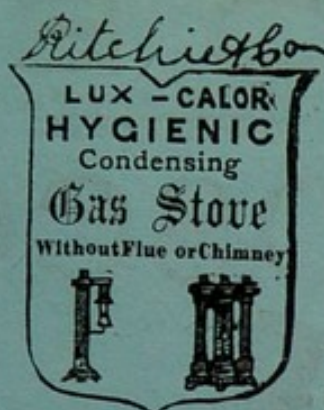
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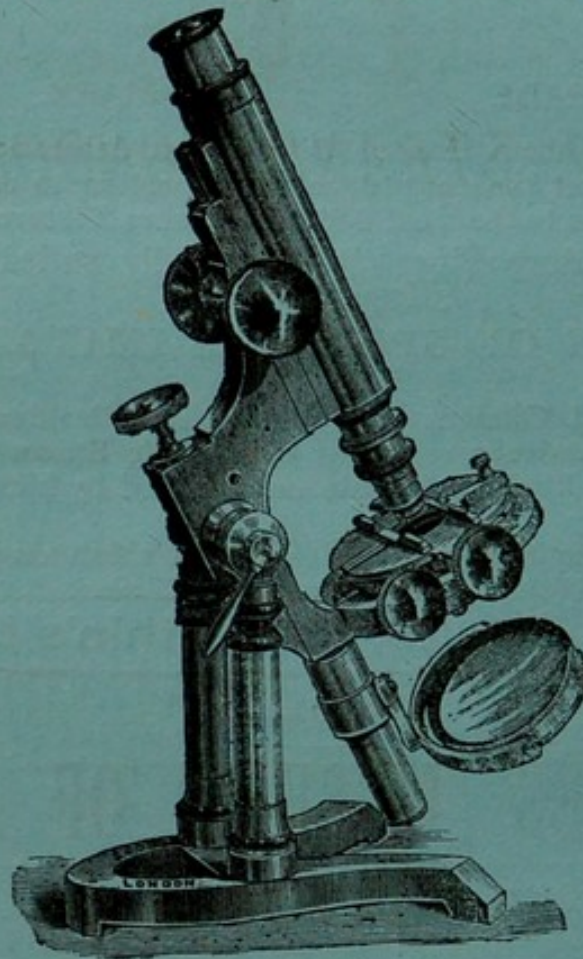
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A preparation containing the WHOLE CONSTITUENTS OF MEAT (except fat) in a LIQUID FORM.

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For Disinfecting the Atmosphere and Furniture of Rooms, Bedding, Clothes, &c. during Small-Pox, Fever, Cholera, and other Infectious Diseases.

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For the inhalation of Chloride of Ammonium and various Medicated Vapours in the treatment of Hay Fever, Asthma, Bronchial and Catarrhal Affections.

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Including FLUIDS, OIL, POWDERS, HARD AND SOFT SOAPS, TOILET WATER, NURSERY POWDER, OINTMENT, VETERINARY OINTMENT, and FURNITURE CREAM, are made under the patents of

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Are all perfectly *Non-Poisonous and without Stain*, and are claimed to be the only Disinfectant Preparations qualified for universal use.

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Are in active use by more than 430 Boards of Health, Sanitary Authorities, Hospitals, Workhouses, Railway and Shipping Companies, in the British Empire.

The "Sanitas" Disinfectants

Combine in themselves the properties of true antiseptics and oxidants. By their judicious employment all the diseases which have their origin in putrid and allied processes can be both prevented and arrested.

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Are characterised by the presence, or production by use, of Peroxide of Hydrogen and certain Camphoraceous substances generated by the processes employed.

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The most efficient known Filters for Table
and Domestic use.

The Water passes *upwards*, through the Carbon,
in the direction shown by the arrows.



The Carbon Block being moveable, can be taken
out to be cleansed, and can also be used as a
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Section of ASCENSION DOMESTIC FILTER,
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PRICES: 1-gallon 18s., 2-gallon 26s., 4-gallon 38s.

GLASS TABLE FILTERS, ascension principle, No. 38, 1-pint, 2s. 6d.
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SMALE BROTHERS, GENERAL DENTAL DEPOT.

Operating Chairs, Cabinets, Spittoons, Dental Brackets, Dental Engines, Reflectors, Lathes, and Vulcanizers.

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Goldfoils, Pellets, Cylinders, Amalgams, Gutta Percha, and White Cements, of all manufacturers.

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Instruments Nickel-Plated at Reduced Prices.

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No. in Catalogue,

PREVENTION OF TYPHOID FEVER

BY

Filtration of Water through Spongy Iron.

FROM THE LANCET, DECEMBER 25TH, 1880, P. 1038.

TROOPS AT SHOEBOURNE.

In the *Army and Navy Gazette* of the 11th inst. attention was called to the sanitary condition of Shoeboorne, which was described as "far from satisfactory." Typhoid fever is constantly "occurring there, and is very prevalent in the neighbourhood." We have made particular enquiry into the matter, and have found that, so far at least as the troops are concerned, this statement is quite erroneous. They are remarkably healthy, and not a single case of typhoid fever has occurred among them for a considerable period. Last year, in consequence of complaints regarding the quality of the water supplied to them, the War Office, on the recommendation of the Director-General, sanctioned the issue of Spongy Iron Filters to every barrack and quarter at the station, and this measure has been attended with the most satisfactory results, and the water is described as quite pure and good.

No such result was ever obtained with any other Filter. A large number of Official Reports post free.

PONGY IRON DOMESTIC FILTER COMPANY,
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GOLD MEDAL, MELBOURNE, 1881.

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As introduced by Mr. SAMPSON GAMGEE, Consulting Surgeon to the Queen's Hospital, Birmingham, &c., &c.

2. PREPARED MILLBOARD SPLINTS.

Readily mould to the limb and set perfectly hard, and *very inexpensive*.

3. LADIES' NEW SANITARY TOWEL.

Entirely superseding the old-fashioned diaper in catawena and childbed; economical, does not chafe the skin, and is burnt after use.

4. HOSPITAL STRAPPING.

Antiseptic and adhesive. Needs no heat but the warmth of the body.

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Finer, more absorbent and agreeable than oakum or carbolised tow.

6. THE "A 1" COD LIVER OIL and Preparations.

The Oil is prepared by us in Norway by a special process, retaining all the organic constituents as *biliary matter*, *gadwine*, etc., unchanged, but excluding indigestible solid fats. Is bland, brilliant, and digestive.

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Meat in a partially digested and agreeable form. Is more than an Extract, and contains the whole of the meat.

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Unlike others, contains the whole of the Salts of the Sea. Fish live in it.

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SOUTHALL BROS. & BARCLAY

Manufacturing Chemists,

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Flitwick Natural Mineral Water.

The most remarkable and powerful Chalybeate Water ever discovered.

This highly invigorating and digestible Natural Tonic has been found very efficacious in cases of Neuralgia, Diptheria, Indigestion, Rheumatism, and Gout. It has been used with great success for children with strumous tendencies, and as a child's tonic is far preferable to Steel Wine, &c.

It is extremely valuable for outward application in some cases of Skin Disease, especially Eczema, and for Scalds and Burns.

It is highly recommended by Dr. GODDARD ROGERS, Senior Physician to the Royal Hospital for Diseases of the Chest (see the *British Medical Journal*, Jan. 3rd, 1880); by Mr. H. T. WHITLING, M.R.C.S., of Croydon; by Dr. A. W. W. DOWDING, L.R.C.P., of Ampthill; and by Dr. JAMES WILLIAMS, author of works on Climate, Aspley Guise, &c., in cases of Anæmia and Chlorosis.

The Analysis, by Professor WHITE, M.P.S., of London, is as follows:—

	Grains per Gallon.
Oxide and Carbonate of Iron	144.00
Sulphate of Magnesia and Soda	59.20
Carbonate of Lime	11.54
Muriate of Magnesia (chloride)	15.16
Silica	3.40
Carbonate of Magnesia	5.42
„ Soda	0.22
Ulmic, Malic, and other acids, constituent of vegetable matters	13.32

DOSES: Three times a day—For Children under seven, one tablespoonful; for Children over seven, one tablespoonful and a half; for Adults, two or three tablespoonfuls.

It has been for some time in use at the Royal Hospital for Diseases of the Chest.

Price 1s. 6d. per Bottle; 5s. per Gallon, direct from the Springs.

May be obtained of MESSRS. SAVORY & MOORE, 143, New Bond Street; MESSRS. BLAKE, SANDFORD, & Co., Piccadilly, London; of MESSRS. SYMES & Co., 14, Hardman Street, Liverpool; and of all Chemists.

Wholesale Depôts, London:—MESSRS. INGRAM & ROYLE, 119, Queen Victoria Street, E.C.; MESSRS. BARCLAY & SON, 95, Farringdon Street; and MESSRS. MAY, ROBERTS, & Co., Cowcross Street.

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The Oldest and best Natural Purgative [Aperient] and Alterative  
Mineral Water Known.

The only Bitter Water that received the Prize at the International Exhibition in Philadelphia in 1876. Great Prizes at the International Exhibitions in Paris, 1878, in Sydney (N. S. W.), 1879, in Melbourne, 1880; Imp. roy corvette "Helgoland" to Sydney, 1879; Sydney Hospital, 1879; Hors concours Vienna, 1873, Teplitz, 1879; entered, International Food Exhibition, London, 1880, and International Balneological Exhibition, Frankfort-on-M., 1881.

This is the most effective and least weakening of any of the Alkaline Springs known.

Püllna, a small village between Teplitz and Carlsbad, owes its renown exclusively to its wonderful springs of bitter mineral water, the medicinal and healing qualities of which are acknowledged and praised by the most eminent physicians of both hemispheres. The diseases against which this mineral water is recommended as highly efficacious by eminent physicians are principally the following :

Torpidity of the Bowels, Constipation, Diarrhœa, Dysentery, Cholera, Gastric and Bilious Fevers, Congestions, Inflammation of the Throat and the Lungs, Diseases of the Liver and the Spleen, Jaundice, Catarrh and Colds, Obesity, Colic, Flatulency, Worms, Remittent, Intermittent and Malarious Fevers, Hysteria, Female and Hemorrhoidal Complaints, during Pregnancy, Diseases of the Skin, the Glands and the Kidneys, Gravel, Stone, Hypochondria, Paralysis, Apoplexy, Insanity, &c., &c.

*Caution.—Every genuine Jar bears the registered Mark :*

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AND THE CAPSULE :

**PÜLLNAER-GEMEINDE-BITTER-WASSER.**



# "Victoria" Ofner Mineral Bitter-Water.

## THE BEST AND CHEAPEST NATURAL APERIENT.

*Especially approved by the Academy of Medicine of Paris, and its sale in France authorised by decree of the French Government.*

As a safe, ordinary, and gentle aperient,

In inflammation and congestion,

In rheumatic and gouty disorders,

Against undue tendency to fat,

Against hæmorrhoids,

In bilious attacks and disorders of the liver,



During pregnancy and in many female diseases,

For habitual constipation,

In Organic Diseases resulting from fatty degeneration,

To remove the consequences resulting from excess in diet, etc.

The Proprietors of this Natural Spring of Laxative Water are desirous of bringing the leading features before the Medical Profession. The advantages specially claimed are, that it contains a larger amount of valuable active aperient solids than any other bitter water previously in vogue with the public, or prescribed by the faculty, and notwithstanding its rapid action as an aperient, it produces no uneasiness in its effects. It will be seen from the analytical data (below) of eminent Professional Chemists of England and the Continent, that this water contains nearly double the amount of Magnesia found in any other Bitter Water, hence it is entitled to be distinguished as a "SPECIFIC MAGNESIUM BITTER WATER."

|                                              | Analysis of<br>Prof. H. E. ROSCOE,<br>F.R.S. Owens College,<br>Manchester | Special Analysis of<br>Prof. M. BALLO,<br>Chemist of the<br>City of Budapest. | Analysis of<br>Dr. G. L. ULEX,<br>Official Chemist of<br>the City of Hamburg. |
|----------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| MAGNESIUM SULPHATE ...                       | 32.8107                                                                   | 32.3800                                                                       | 33.60                                                                         |
| SODIUM SULPHATE ...                          | 17.1693                                                                   | 20.9540                                                                       | 19.55                                                                         |
| POTASSIUM SULPHATE ...                       | 0.4407                                                                    | 0.3105                                                                        | 1.28                                                                          |
| CALCIUM SULPHATE ...                         | 2.3304                                                                    | 1.6020                                                                        | 1.33                                                                          |
| SODIUM CHLORIDE ...                          | 1.7708                                                                    | 2.2431                                                                        | 2.28                                                                          |
| SODIUM CARBONATE ...                         | 1.1884                                                                    | 0.4980                                                                        | 2.10                                                                          |
| ALUMINA ...                                  | 0.0108                                                                    | 0.0229                                                                        | 0.3                                                                           |
| SILICA ...                                   | 0.0587                                                                    | 0.0444                                                                        | 0.6                                                                           |
| PHOSPHORIC ACID ...                          | Trace                                                                     | Trace                                                                         | Trace                                                                         |
| SUMMARY OF TOTAL SOLUBLE<br>CONSTITUENTS ... | 55.1798                                                                   | 58.0459                                                                       | 60.23                                                                         |
| Do. Do. FOUND                                | 55.7250                                                                   | 58.156                                                                        |                                                                               |
| DIRECTLY                                     |                                                                           |                                                                               |                                                                               |
| SPECIFIC GRAVITY AT 17°C. ...                | 1.0534 AT 17°R.                                                           | 1.05362 AT 14°R.                                                              | 1.055                                                                         |

*Soluble Constituents and Sulphate of Magnesia in "Victoria Bitter Water," as compared with other Mineral Waters.*

|                           | Soluble<br>Constituents. | Sulphate of<br>Magnesia |
|---------------------------|--------------------------|-------------------------|
| VICTORIA Bitter Water ... | 55.77                    | 32.87                   |
| Rakoczy ...               | 53.53                    | 23.06                   |
| Franz Josef ...           | 52.29                    | 24.78                   |
| Hunyady Laszlo ...        | 51.07                    | 24.20                   |
| Hunyady Janos ...         | 41.73                    | 18.44                   |
| Königsbitterquelle ...    | 37.55                    | 16.68                   |
| Elisabeth ...             | 26.29                    | 8.04                    |
| Pullnaer Bitterwasser ... | 32.72                    | 12.12                   |
| Friedrichshall ...        | 25.29                    | 5.15                    |
| Saidschutzer ...          | 23.21                    | 10.96                   |

Retail Prices:—Litres, 1/6 per bottle; Half-Litres, 1/- per bottle.

Cases are free and contain either 25 Litre Bottles or 50 Half-litre Bottles. May be obtained of any Chemist or Patent Medicine Vendor in the United Kingdom.

## The "Victoria" Natural Bitterwasser of Budapest, Hungary.

Wholesale Depot for England and Colonies:—92, & 93 Great Russell Street (corner of Charlotte Street), London, W.C.



BY HER MAJESTY'S ROYAL LETTERS PATENT  
AND BY SPECIAL APPOINTMENT TO HER MAJESTY

AND THE  
ROYAL FAMILY



THE EMPRESS OF  
RUSSIA & FRANCE  
&c. &c.

JOHN WARD

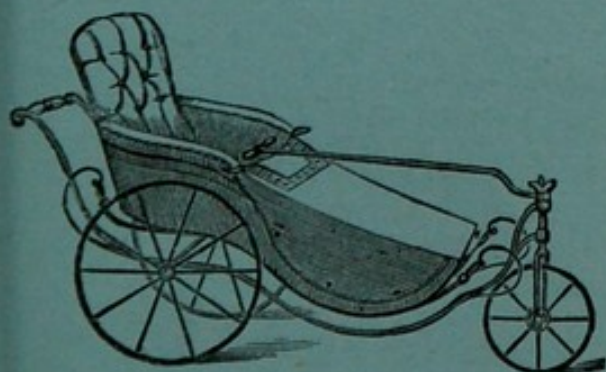
246 & 247, TOTTENHAM COURT ROAD, LONDON.

(LATE OF SAVILLE HOUSE, LEICESTER SQUARE.)



No. 1.

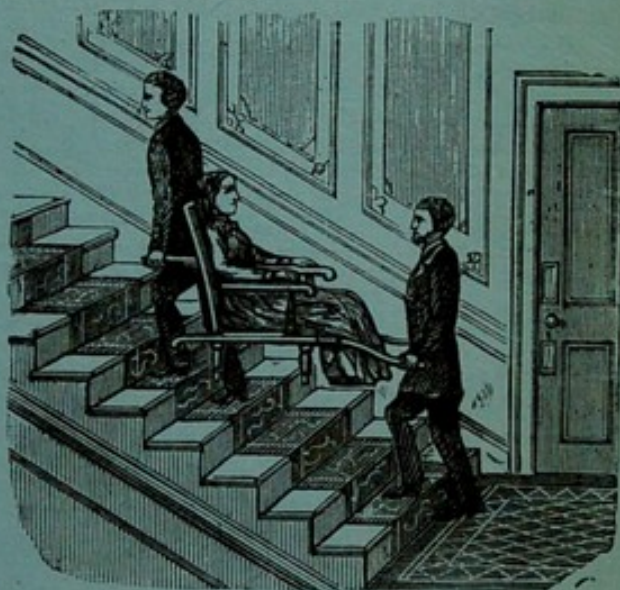
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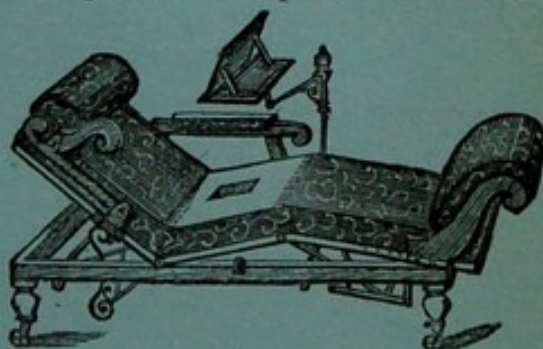
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PRIZE MEDALS—Vienna, 1873 (Two Medals);  
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No. 10 is Ward's General Invalid Couch, made with or without a convenience; it adjusts the back, seat, and legs to any given position, by means of machinery; and is recommended by the Faculty as being the most complete bed ever made for confirmed invalids or for fractured limbs.

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| GREY COTTON WOOL, by the cwt. | ...   | from | 5d. per lb. |
| BLEACHED                      | " " " | ...  | " 1s. 1d. " |
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|          | SIMPLE.      |          |
| FIRST    | CHEAP.       | SECOND   |
| QUALITY, | CLEAN.       | QUALITY. |
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(REGISTERED TITLE.)

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Beg to direct the attention of the Profession to their new and elegant mode of administering Nauseous Medicines, as supplied in their Granular Effervescent Preparations, which are now sent all over the World.

*Granular Effervescent Bismuth, Pepsine, and Steel.*

Granular Effervescent Bismuth & Pepsine, Granular Effervescent Bismuth, Pepsine & Strychnine Introduced at the suggestion of the late Dr. T. H. TANNER.

PHOSPHORIZED COD LIVER OIL, THE ORIGINAL PREPARATION,  
Recommended by the Medical Profession at home and abroad.

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*Always ready for use.*

*Keeps any length of time.*

*Easy of application.*

*Sets readily, yet not too soon.*

*Makes semi-elastic bandage, or a firm and solid splint.*

*Can be used many times.*

*Paraffin Splints can be cut with scissors or sharp knife.*

*May be made impervious to moisture or discharge.*

*Light, easy, and comfortable to the Patient.*

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# SCHERINGS' PURE CHEMICALS

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|-----------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>Acid, Carbolic or</b> .....                      | Fine white hard crystals...                                                              | Free from Cresylic Acid.                                               |
| <b>Phenol Absolut.</b> .....                        |                                                                                          | Watery solution will not show greasy spots floating on top.            |
| <b>Acid Gallic</b> .....                            | Almost white needles ...                                                                 | Freely and entirely soluble in alcohol or water.                       |
| „ <b>Pyrogallic</b> .....                           | Bi-sublimed, white, bulky                                                                | Ditto ditto ditto.                                                     |
| „ <b>Salicylic (Kolbe's)</b>                        | White, powder, crystallised, and dialysed                                                | Disolves colourless in water or alcohol.                               |
| „ <b>Tannic</b> .....                               | Lightest crystals .....                                                                  | Disolves almost colourless in water, alcohol, and ether.               |
| „ „ .....                                           | Powder and granulated                                                                    | Dissolves freely in water, alcohol, and ether.                         |
| <b>Celloidine (Patent)</b> ...                      | Gelatine plates .....                                                                    | Purest Pyroxylin; explosive.                                           |
| <b>Chloral Hydrate</b> ... ..                       | White cake and crystal...                                                                |                                                                        |
| <b>Chloral Hydrate (Liebreich's)</b> .....          | Transparent rhomboidals (facsimile of Dr. Liebreich's)                                   | Will not decompose by age.                                             |
| <b>Chloroform (ex Liebreich's Chloral)</b> .....    | Schering's original label                                                                | Free from foreign chlorides. Will leave no odour on evaporation.       |
| <b>Croton Chloral</b> .....                         | Shiny crystalline scales. (Powder form most objectionable)                               | Free from foreign chlorides.                                           |
| <b>Glycerine</b> .....                              | S.O. 1260, double distilled, brilliantly white, odourless; also lower S.G. and qualities | Free from lime, chlorides, metals; will stand severest chemical tests. |
| <b>Iodoform</b> .....                               | Dry yellow scales .....                                                                  | Purest.                                                                |
| <b>Potass, Bromide</b> .....                        | Fine white dry regular crystals .....                                                    | Perfectly free from iodide, and the most free from chloride.           |
| „ <b>Caustic</b> .....                              | Lump and stick, white...                                                                 | Commercially pure, and pure by alcohol.                                |
| „ <b>Cyanide</b> .....                              | Ditto ditto .....                                                                        | 20 per cent. 45 per cent. 60 per cent. and 95 per cent.                |
| „ <b>Permanganate</b> ...                           | Large and small crystals                                                                 | Chemically pure.                                                       |
| „ <b>Iodide</b> .....                               | Fine white dry regular crystals .....                                                    | Apply Baryta and other tests. This will never change colour.           |
| <b>Silver, Nitrate</b> .....                        | Fine large crystals .....                                                                | 63 to 63½ per cent. pure silver.                                       |
| <b>Soda, Caustic</b> .....                          | Lump and stick, white ...                                                                | Chemically pure, and pure by alcohol.                                  |
| <b>Soda Salicylate, and other Salicylates</b> ..... | White powder and crystals .....                                                          | Freely soluble in water and alcohol.                                   |

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ANDERNACH-ON-RHINE,

MANUFACTURER OF PURE CHEMICALS AND PEPSINE.

|                                                     |                                               |                                                                                                                                                                        |
|-----------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ergotine, pure Dialysed                             | Brown colloid, purified by Dialysis           | Free from all saline matter present in the ordinary Ergotine and extracts.                                                                                             |
| Ferrum Oxyd (5 per cent.) Dialysed)                 | Transparent brown liquid purified by Dialysis | Free from all saline matter. Diluted by ten times its weight of water, will stand the test of nitrate of silver.                                                       |
| Pepsin Porci (100 times according to German Pharmac | White, sweet, odourless powder                | Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine in 6 hours. |
| „ P.B. ....                                         | Strictly according to P.B.                    | Dissolving (by Wittstein's test) 50 parts of white of egg, and 125 parts fibrine within 6 hours.                                                                       |
| „ (500 times) ....                                  | Tenfold strength of P.B.                      | Will dissolve (by Wittstein's test) 500 parts of white of egg and 1250 parts of fibrine in 6 hours.                                                                    |

*Pure and crystalised Valerianic Acid Salts.*

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|                           |                                                                |                                                          |
|---------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| Potass, Bicarbonate ..... | White powder & crystals                                        | Dissoolves bright in water.                              |
| Soda, Bicarbonate .....   | Purest white powder, taste neutral, speciality for Soda powder | See tests P.B.                                           |
| Soda, Carb (purest) ..... | Dry, for pure Soda salts                                       | Indifferent to nitrate of silver and chloride of barium. |

### CHININ FABRIK, Brunswick.

|                          |                             |                         |
|--------------------------|-----------------------------|-------------------------|
| Chinine Sulph .....      | Purest, answering all tests | Snow white, very bulky. |
| Cinchonine mur .....     | „                           | „ same bulk             |
| Cinchonidine sulph ..... | „                           | as Chinine.             |
|                          |                             | Ditto.                  |

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*(Museum : Library : Reading Room),*

FOR THE  
DIFFUSION OF A PRACTICAL KNOWLEDGE  
OF  
SANITARY SCIENCE.

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THE MUSEUM IS OPEN FREE  
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From 10 to 2.

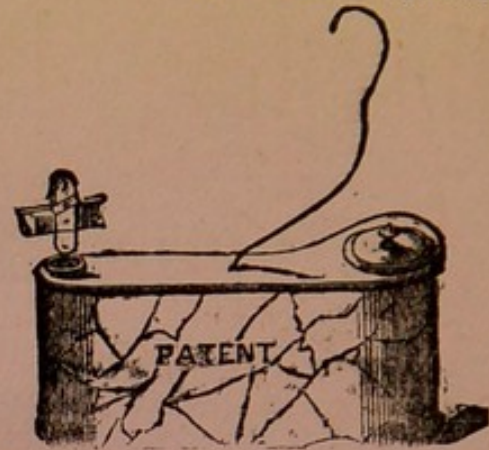
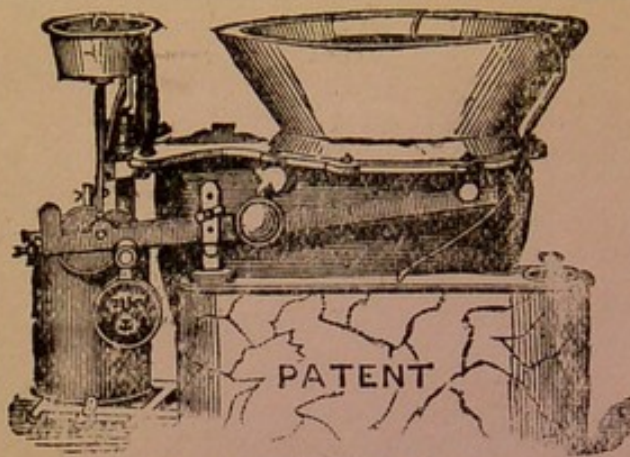


ADVERTISEMENTS.

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SANITARY SECTION.





The Apparatus fixed.

## The "Antiseptic Apparatus" Manufacturing Company, 27, HARROW ROAD, PADDINGTON, LONDON, W.

Patent automatic action. Perfect immunity insured from all foul gases and poisonous effluvia in closets, pipes, and drains. Price 36s. Fixed in a few minutes. Out of sight, cannot get out of order. Lasts many years.

*Patent Sealed 5th March, 1880.*

From "The British Medical Journal," April 2, 1881.

**ANTISEPTIC APPARATUS.**—One of the sanitary precautions most urgently needed at the present day is a means of preventing sewer-gas from entering houses. In the face of the continual sanitary improvements, diarrhoea, infantile and adult, typhoid poisoning, pseudo-diphtheric throat affections, &c., are still extensively fatal, and often most markedly so, in the house of the rich as well as of the poor. It has been noticed in some well-sewered towns that since the introduction of sewers such diseases appear to be on the increase; and it is especially to be noted that they haunt localities which are high and dry, and apparently removed from sources of infection of the soil, the air, or of the water. Some crucial examples have been observed in the best houses in Edinburgh, and in the best districts of London, as well as in regard to provincial towns. It is impossible not to attribute this prevailing plague of sewer gas in houses to the introduction of the water closet system in connection with arterial drainage by sewers. Remedies such as the re-laying of sewers, a thorough system of ventilation of the soil pipes, and the introduction of improved forms of waterclosets, and well-devised traps are indicated as radical; and wherever these cases can be applied they ought to be. On the other hand, it is often found that such remedies are so costly and difficult of application, often involving such an outlay on leasehold premises, that it is practically found very difficult to induce householders to adopt them, even when serious outbreaks of serious illness or chronic suffering from throat affections, headaches, and other indications of sewer-gas poisoning have attracted attention to this frequent source of disease. Again, where well trapped and well placed water closets have been introduced, it is certain that, with our present system of drainage, what are intended to be sewers of passage are (as is well known to be the case in a majority of London districts) rather sewers of deposit and sources of putrefaction and of exhalation of sewer-gas. Even the best appliances will with difficulty prevent sewer-gas from forcing the traps and passing up in gushes into the house whenever the closet is opened and water passes down the pipe displacing the gas. Hence practical men have long felt it to be a great desideratum that the water left in the water closet pan, should, as far as possible be charged with disinfecting antiseptic fluid, which should constitute the closet itself, and always acting antiseptic water-trap, capable of neutralising whatever sewer-gas passes from the soil-pipe. This is an additional precaution which is of great value where all the other arrangements are of the best kind, and it is really indispensable where they are less effective and where they cannot be depended upon (as is almost universally the case) for being in prime working order. Such an apparatus was some time since brought into public use by a Mr. Baker, and brought prominently before the attention of the public. It was extensively used both in the public service and in private asylums, and is still effectively used in many places. It was, however, found to be somewhat difficult to fit, on account of its shape, and of some complexity in valves and rods, and of other technical difficulties. These difficulties have been completely overcome by a new and simple apparatus of the sort which is now introduced under the name of "the Antiseptic Apparatus," and which has been in use for many months in the houses of various persons who have given it a thorough and searching trial. After such thorough trial we can speak of it with great favour. It is a copper cylinder, easily and cheaply attached to any closet-pan within the woodwork by an ordinary plumber, without deranging the existing arrangements, and it is charged with a strong solution of permanganate of potash. Each time the plug descends after it has been raised, it discharges into the water contained within the closet-pan a charge of the solution. This remains mixed with the water, and destroys all organic contaminations, neutralises sewer-gas, and has the advantage of acting as a continuous and valuable antiseptic barrier to the entrance of such gas. It does not require charging with the fluid more than about once a year in a closet which is extensively used, the cylinder containing 1000 charges of fluid. Quietly and unobtrusively this useful improvement has been brought under the notice of prominent sanitarians and practical men, and it is making its own way. It is, in our view, one of the most valuable, although simple, inventions of the day, and is likely, we believe, to come into very general and extensive use. It is always easy to renew the charge, and its practical operation is so simple that it appears to remain in working order for years without any effort.



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BRILLIANT, PURE, ECONOMICAL.

Non-poisonous.

Great covering power.

Permanent purest white.

Unchanged by gases.

No Smell.

Prices, Samples, and Testi-  
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A saving in material and  
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Mixes easily with Colours

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HEATING AND VENTILATING

ENGINEERS,

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AND

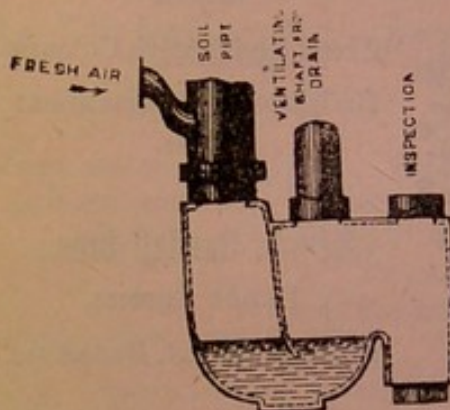
NEWCASTLE.



# WHOLESOME HOUSES.

GOLD MEDAL.—BRUSSELS EXHIBITION, 1880.

## SIMPLICITY ITSELF. BANNER'S PATENT VENTILATING COWL AND TRAP.

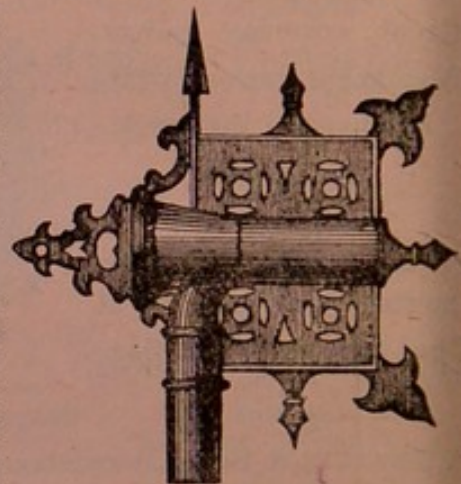


HOUSE TRAP.  
MAY BE PLACED ABOVE OR BELOW  
GROUND LEVEL.

No House should be without one of the latter in the Basement, and one of the former fixed on the Soil-Pipe carried above the Roof, WITH A PROPER INLET for Fresh Air.

Shafts from Soil - Pipe need only be  $2\frac{1}{2}$ -in. in diameter.

"I must say in justice to Mr. Banner, that the greatest possible credit is due to him for having succeeded in solving a problem which has hitherto baffled all the combined talent of the best sanitary authorities of the day."—Major C. H. SELDON, R.E.



NEW DESIGN OF COWL  
AND TRADE MARK.

"As near perfection as may be; nothing better need be desired."—*Sanitary Record*.

## BANNERS' PATENT SYSTEM OF SANITATION

*Entirely reverses the Method which, previous to its introduction, prevailed.*

Besides being the most effective, it is also the cheapest, is substantially recommended by the Local Government Board, and should be universally adopted.

"We believe Mr. Banner's system of sanitation will make any house absolutely safe from sewer gas, or noxious odours of any description. We have no doubt that some sanitary reformers will declare that such result is impossible. Our answer to such objectors is, Do as we have done: investigate the novel plan introduced by Mr. Banner, and judge for yourselves."—*Architect*.

"Baron's Court, Dec. 6, 1879. Sir,—I am glad to give my testimony of the complete success of the system which you have inaugurated at Baron's Court, and at my London residence, Hampden House, for the sanitary security of the drain. The system seems to be both simple and effective, and one which is not likely to suffer any derangement."—Faithfully yours, ABERCORN."

TESTIMONIALS to a like effect have been received amongst many others, from the following noblemen and gentlemen, at whose residences the system has been carried out:—The Marquis of Exeter, Marquis of Headfort, Earl Erne, Sir Warwick Moreshead, Sir D. Cooper, F. J. S. Foljambe Esq., E. Heneage, Esq., W. Grantham, Esq., M.P., F. Bassett, Esq., Leighton Buzzard.

It has been conclusively shown, from experiments scientifically made with these Cowls, if the wind at roof-level be blowing at four miles an hour, which is only one-third its average velocity, that fresh air is drawn in at the inlet if it be properly arranged, and out by the Cowl through any house-drain or soil-pipe in less than one minute.

In confirmation of the above, the Patentee is able to certify that there has not been a single failure, when the system has been properly carried out, at any of the hundreds of houses to which it has already been applied, and he is prepared to undertake to inspect and make good any defect therein, for a period of three years, FREE OF CHARGE.

CAUTION.—Individuals allowing the system to be carried out at their houses with other than the Patentee's appliances (which may be had of any respectable Builder, Plumber, &c.), subject themselves to penalties for infringements.

The Banner System has been applied at the Builders' and Manufacturers Exchange and Subscription Rooms, 205 and 206, High Holborn, where models illustrative of the same may also be inspected, and further information obtained.

FOR FURTHER PARTICULARS AND PRICES, ADDRESS—  
BANNER BROTHERS AND CO.

11, BILLITER SQUARE, LONDON, E.C.

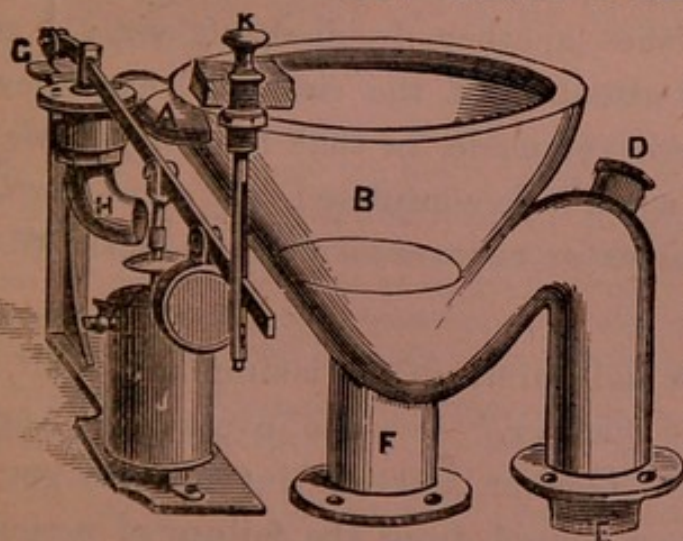


BEARD, DENT, & HELLYER,

Plumbers and Sanitary Engineers,

21, NEWCASTLE ST.,  
STRAND, LONDON.

HELLYER'S PATENT "VORTEX" CLOSET AND TRAP,  
IN ONE PIECE.



"VORTEX" WITH VALVE AND REGULATOR.

oil, painted all over the exposed part of the inside of the closet, is easily washed off by the great flush water brought to bear upon the sides of the basin, while, at the same time, a dozen pieces of ordinary W.C. paper are driven out both of the closet and trap, leaving the same clear and wholesome.

This "Vortex" closet is an improvement upon the "Artisan" and "Water-battery" closets, combining the advantages of both without their disadvantages. A body of water, about 5-ins. deep, is made to stand in the bottom of the basin having an exposed surface of about 9-ins. by 6-ins. to receive the excrement; and the configuration of the basin is such that on using the closet the deposit must fall directly into this water without touching the sides of the basin.

The trap of the closet is provided with a water lock or seal of about 2-ins.

There are no valves or fittings of any kind—except in connection with the water supply—to get out of order! and there is no reason why this closet, when once fixed, should not last half-a-century.

On usage every part, both of the basin and trap, is thoroughly cleansed: so much so that a good coating of plumber's

Hellyer's Patent cast lead "V-Dip Trap," or "ANTI-D." TRAP.

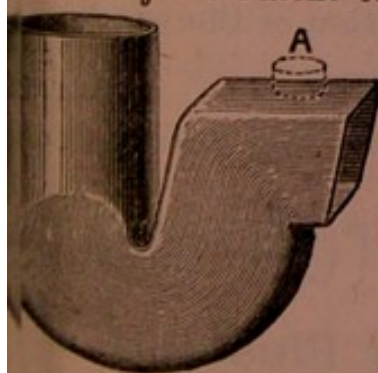


FIG. 5.

This trap is made of the softest and purest lead, without solder of any kind, and is perfectly smooth both inside and out. The substance of the lead is equal to sheet lead 8 lbs. to the superficial foot.

The trap is both self-cleansing and non-syphoning! There are no corners or places about it where any filth or paper can find a lodgment. The space between the bottom and the dip ( $3\frac{1}{4}$  ins.) is purposely made smaller than in any other part of the trap, to ensure the incoming water

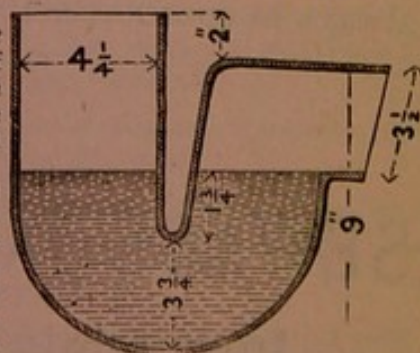


FIG. 6.

driving out the standing water, and, also, to get a scouring force upon the bottom of the trap to drive everything foreign out of it.

This "V-dip" trap has a water-lock or seal of  $1\frac{1}{2}$  ins. as shown in section, Fig. 6, to allow for evaporation, and any little syphoning which must occur, more or less, in all good self-cleansing traps, though this trap is specially designed to lessen the syphoning action of discharges passing either through the trap itself or through the soil-pipe on which the trap is fixed.

An air-pipe can easily be soldered to the top of the outgo, as shown in A, Fig. 5, but this is better done by the plumber on the job, as it can be fixed in any part of the outgo to suit circumstances.



# BOSTEL'S

NOW WELL-KNOWN AND EXTENSIVELY USED

## Brighton "Excelsior" Valveless Water-closet

No. 1,

And also his EXCELSIOR No. 2, accomplishes that which has been required for *years*, viz., a *sweet and wholesome W.C.*, and a Closet through which it is quite *impossible* for Sewage Gases to pass; and, in addition, every atom of matter delivered into it is immediately flushed completely out into the sewer.

HOLT'S Patent Pneumatic and Automatic Flushing Cistern for all purposes, also accomplishes another desideratum, viz.: a good flush, noiseless and without attention of the riser, and excels every other flushing valve or cistern yet made, in that it is *impossible* for water to leak out of it, and when it is considered *that three-fourths of Water wasted* is through valves or cisterns connected with W.C.'s this is of *vital importance*.

HALL'S Patent Ventilator and Chimney Cowl is simplicity itself, and fully justifies its title of the "PERFECT." It is the invention of ALFRED HALL, Esq., M.D., F.R.C.P.S., London, and was invented to get rid of the trouble and annoyance caused from the failure of action of every description of moveable and swinging Cowl, in consequence of the constant attention always required by a moveable Cowl. This Ventilator never requires the least attention, and being immovable is always in constant action whichever is the direction of the wind.

# BOSTEL'S

## SEWAGE GAS INTERCEPTOR TRAP:

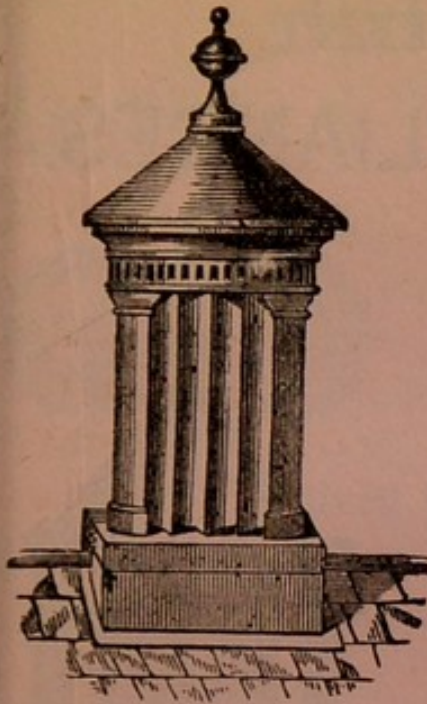
Immediate access, Fresh Air Flushing.

WHOLESALE AND RETAIL:

8, Golden Lane, E.C.; 4, Agar Street, W.C.,  
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18 and 19, Duke Street, Brighton.





# BOYLE'S PATENT SELF-ACTING AIR-PUMP VENTILATORS

Effectually extract the foul air, have no mechanical motion, are entirely free from down-draught, and can be constructed to harmonize with every style of architecture.

"They are constructed on sound scientific principles, act in strict accordance with the laws of Nature, and cannot fail to operate."—PROFESSOR GRANT, LL.D., Glasgow Observatory.

## EFFICIENT VENTILATION GUARANTEED.

These Ventilators are pronounced by the most eminent scientific and practical men in the kingdom to be the most efficient method of Ventilation yet brought out.

### TESTIMONIALS.

Dr. B. W. Richardson, F.R.S.—"Since these excellent Ventilators have been introduced we have now got perfect methods of ventilation."

From the late Sir Gilbert Scott, Architect.—"I have used your Patent Self-Acting Air Pump Ventilators with complete success. From experience of them in my own house and other buildings—public and private—where they have been applied under my direction, I can confidently and will always have great pleasure in recommending them."

From Sir William Thompson, F.R.S., Glasgow University.—"I have seen several different forms of Mr. Boyle's Air-Pump Ventilator in actual operation, and have much pleasure in testifying to their efficiency. They thoroughly realize the favourable anticipations which I formed from experiments on models shown to me by Mr. Boyle. Having one fitted up in my yacht, I find it has caused a very decided improvement in the draught."

## *Boyle's System of Sanitation.*

SOIL PIPES, DRAINS, and SEWERS VENTILATED on the most approved principles by means of BOYLE'S PATENT SELF-ACTING AIR-PUMP VENTILATORS, combined with an Improved Trap and Inlet for fresh air.

10-inch Ventilator, 3-inch Pipe, galvanized iron and enamel painted, specially made for the Ventilation of Soil Pipes. Price 32s. 6d.

"Boyle's Patent Self-Acting Air-Pump Ventilator, which does not revolve, is the best soil-pipe Ventilator that I know of."—ERNEST TURNER, Esq., F.R.I.B.A., &c.

*Estimates given and Designs supplied.*

PROSPECTUSES, PRICE LISTS, AND TESTIMONIALS ON APPLICATION.

**ROBERT BOYLE & SON, Ventilating and Sanitary Engineers,**

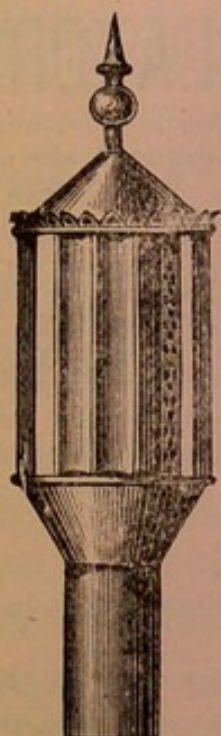
110, BOTHWELL-ST., GLASGOW, & 64, HOLBORN VIADUCT, LONDON.

WORKS: 154½, BOTHWELL-STREET, GLASGOW.

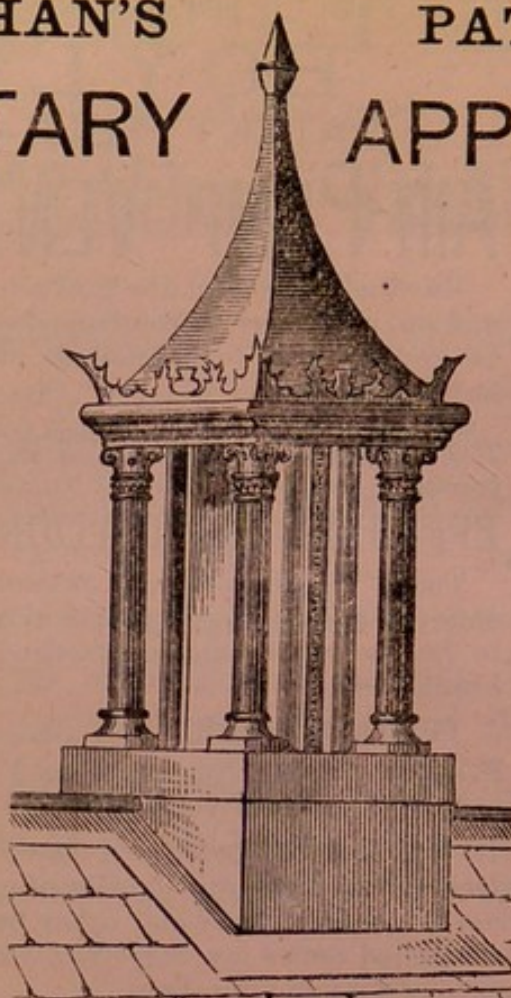
N.B.—The complete system may be seen in operation and tested at the above offices. Inspection respectfully invited.



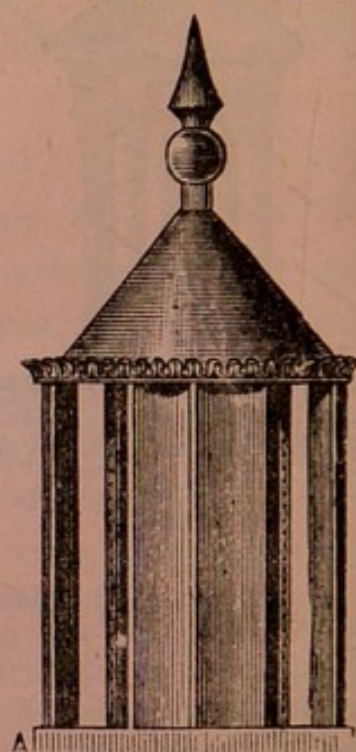
# BUCHAN'S PATENT SANITARY APPLIANCES.



No. 1,  
Induced-Current  
Fixed Ventilator,  
for  
Soil Pipes, &c.

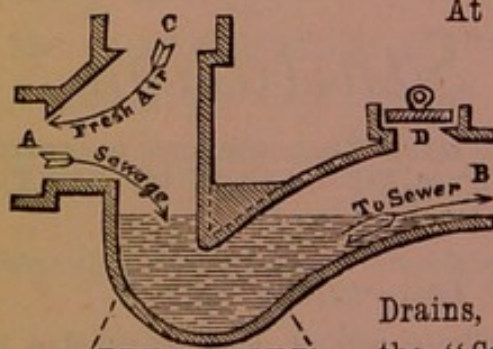


No. 3, Ornamental, for Churches, &c.



No. 2: Induced-Current  
Fixed Ventilator,  
For Halls, Schools, &c.

The Best and Cheapest Exhaust Ventilators in the Market. Beat all the leading makers Cowls by 82,739 feet in nine two-hours Tests at London.  
The Patent Ventilating Chimney Can is a Modification of the No. 1 Ventilator.  
The use of the Railway Carriage Ventilator would be a boon to all Travellers per Rail.

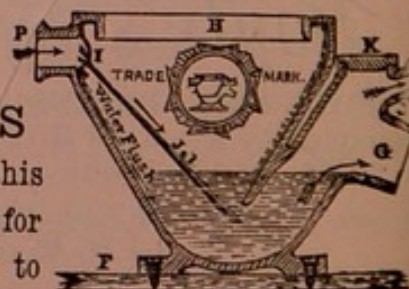


No. 2 Trap. 8,000 in use.

At the Philosophical Society's Exhibition, Glasgow,  
October, 1880,

First Prize  
MEDALS

were Awarded to this  
Ventilating Trap for  
Drains, Soil Pipes, &c., and to  
the "Carmichael" Water Closet here shown.



Professors James Thomson, F.R.S., and Fleeming Jenkin, F.R.S.; Drs. Wm. Wallace, J. A. Russell, J. B. Russell, Robert Bell, &c.; Messrs. Ernest Turner, G. H. Guillaume, Jas. Salmon & Son, Campbell Douglas, John Honeyman, &c., &c. Architects, Mr. R. Barnes Austin, C.E., and many other scientific and professional gentlemen of note, approve of or use these appliances.

Mr. Baldwin Latham, C.E., on page 408 of his "Sanitary Engineering," in referring to the Model Bye-Laws of the Local Government Board, says:—"This is in fact the system patented in April, 1875, by Mr. W. P. Buchan, a Plumber of Glasgow," &c.

PRICE LISTS, TESTIMONIALS, &c., FROM

**W. P. BUCHAN, M.S.A., F.S.Sc. (LOND.),**  
Sanitary Engineer, 21 RENFREW STREET, GLASGOW.



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## Air-Tight & Noiseless Sliding Sashes,

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1878.



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By being EASILY REMOVED AND READJUSTED they  
prevent all ACCIDENTS arising from CLEANING  
WINDOWS.

They are specially adapted for HOSPITALS, INFIRMARIES, and rooms  
for INVALIDS generally, as they EXCLUDE DRAUGHTS and DO NOT RATTLE.

Their SIMPLICITY OF CONSTRUCTION is such that they cannot get out of order.

There is NO FRICTION ON PULLEY STYLES, which may be POLISHED or PAINTED.

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ments, and well worthy of consideration, both as regards EXPENSE and  
RAPIDITY OF COMPLETION.

They are unequalled in NEATNESS OF APPEARANCE.

The above advantages, added to the fact that their SELF-ADJUSTMENT effects such  
PERFECT BALANCE as to be able to raise or lower them from any point on the  
upper or lower rails, renders them

IMMEASURABLY SUPERIOR TO ANY WINDOWS  
HITHERTO INVENTED.

PRICE—1s. 2d. Net. per foot super., for 2-in. yellow deal moulded and  
double tenoned sashes, with deal-cased frames, the pulley styles  
moulded on inner edge, oak double rebated and throated cills, rebated  
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wood guide-bars fitted with No. 8 best flax line, exclusive of Glass  
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DELIVERED AT THE G.W. RY. STATION.

Sole Proprietors & Manufacturers—

MR. BULLIVANT, TAGLIAFERRO, & Co.,

Offices—104, Ledbury Road, London.

Works—Dulverton, Somersetshire.

PRESENT SLIDING SASH WINDOWS ALTERED AT A SMALL COST,

As the Sash Frame is not disturbed, and no new sashes or glazing required.



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BELL HANGING,

Mechanical,

Electrical,

Pneumatic.



VOICE TUBES.

Hoists,

Gate opening Apparatus,

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Also Manufacturers of Every Description of

## WINDOW BLINDS.

Prices on application and Specimens shown at

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# PURE LIGHT

FOR

## COUNTRY MANSIONS, &c.,

PRODUCED BY THIS APPARATUS

Without Trouble or Nuisance, and at a small cost.

(See the Testimonials at the Stand.)

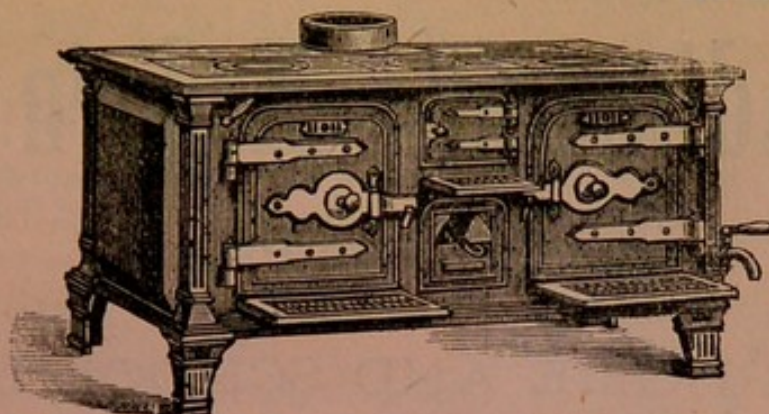
THESE MACHINES HAVE BEEN WORKING FOR THE PAST  
SEVEN YEARS.

Portable Gas Apparatus Company, 47, Millbank Street,  
WESTMINSTER, S.W.

## F. W. CLARK,

Patentee and Engineer.





70 PER CENT. LESS FUEL BURNT,  
Perfection and Economy in Cookery, ensuring perfect Combustion, thus curing  
smoky chimneys, by using the

## Patent Treasure Cooking Range,

Unsurpassed for Durability, Depth of Oven, and Capacity of Boiler.

MAY BE PLACED ANYWHERE. CANNOT GET OUT  
OF ORDER.

Illustrated Price Books post free.

**T. J. CONSTANTINE,**  
61, Fleet Street, E.C.

Established a Quarter of a Century  
N.B.—The Cheapest Coal most suitable.

No. in Catalogue, 270.

## JOSEPH CLIFF & SONS,

(Wortley, near Leeds),

MANUFACTURERS OF WHITE, COLOURED, AND  
PATENT

## ORNAMENTAL GLAZED BRICKS,

Patent Machine-made Gas Retorts,

ARCHITECTURAL TERRA-COTTA (GLAZED AND UNGLAZED),  
SANITARY TUBES,

STONEWARE AND BUFF GLAZED SINKS,

*Blue Staffordshire Bricks, Tiles, etc.*

POTT'S PATENT EDINBURGH SEWER TRAPS,

ELLISON'S PATENT CONICAL AIR BRICKS,

Knight's Patent Terra-Cotta, Chimney Terminals, etc., etc.

LONDON DEPÔT:

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# The Adjustable Modern Desk

(Glendenning's Patent),

FOR HOME AND SCHOOL USE,

WITH

## DR. ROTH'S CHAIR,

Is the most perfect Desk yet made.

Desk and Seat Moveable Vertically are adapted to all heights.

Desk adjustable horizontally gives correct distance for writing  
and reading.

*Seat, with all Dr. Roth's Improvements, 40s. & 50s. each.*

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## Dr. Roth's Hygienic Chairs,

From 10s 6d.

Support Thigh, Spine, and Shoulders. Spine Pad moveable vertically.

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## *Dr. Roth's Spinal Couch.*

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## COLEMAN & GLENDENNING,

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Number in Catalogue, 430.

## Smoky Chimneys A Thing of the Past.

CRANE'S Patent REGISTERED GRATE  
burns ANTHRACITE as easily as ordinary  
Coal.

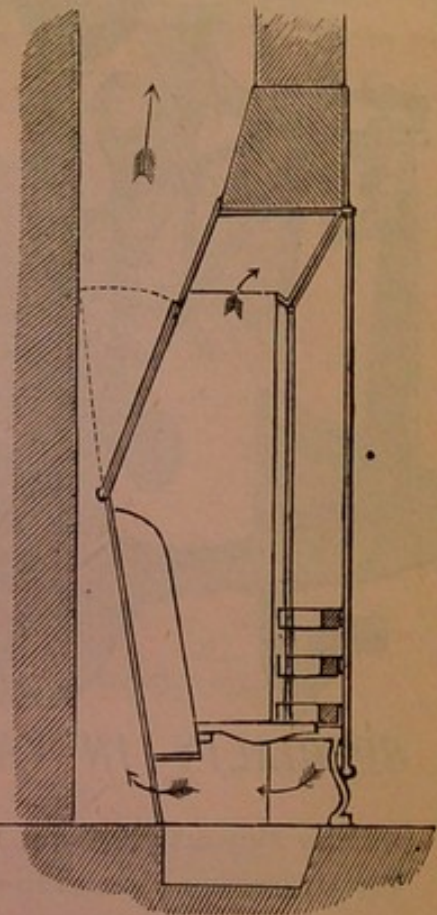
Effectually and certainly prevents Chimney Smoking  
Takes up no more space than the ordinary register  
stove, and can be fixed by any bricklayer.

Effects a great consumption of smoke when burning  
Bituminous Coal. Thoroughly ventilates the room.  
Can be seen fixed and in use at the Manufacturers'

**DEANE & CO.,**  
46, King William St., London Bridge.  
ESTABLISHED A.D. 1700.

Patterns and prices on application.

N.B.—THE PRINCIPLE OF THIS STOVE CAN BE  
APPLIED TO MANY EXISTING GRATES.



No. in Catalogue, 361.

## DRAKE'S MOSAIC MARBLE BATHS,

*Mosaic Marble and Mosaic Granite*

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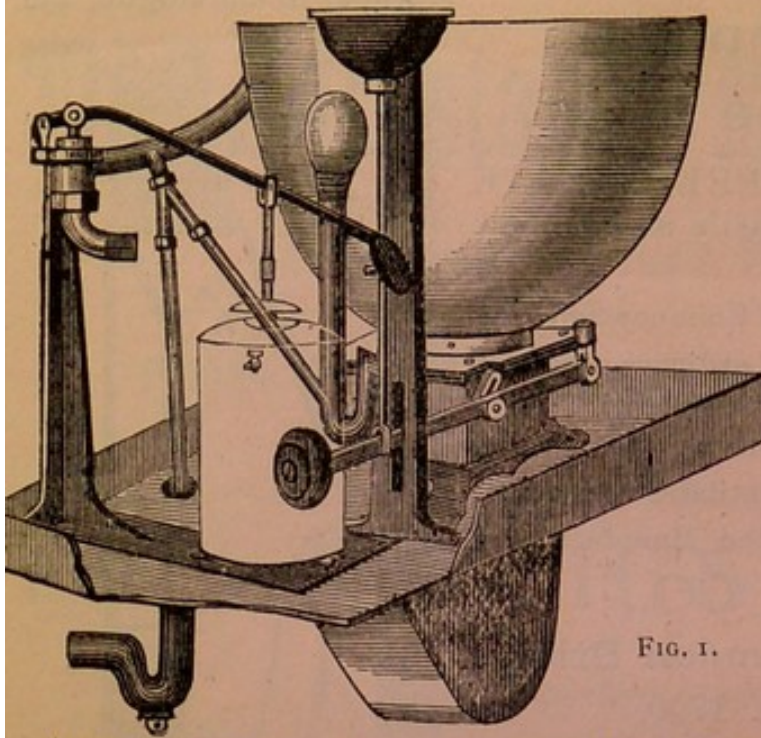


FIG. 1.

## SPECIALTY IN VALVE CLOSETS.

FIG. 1.

By this arrangement the Lead overflow of Valve Closet and also trap of lead safe, is flushed each time the handle of the Closet is pulled up.

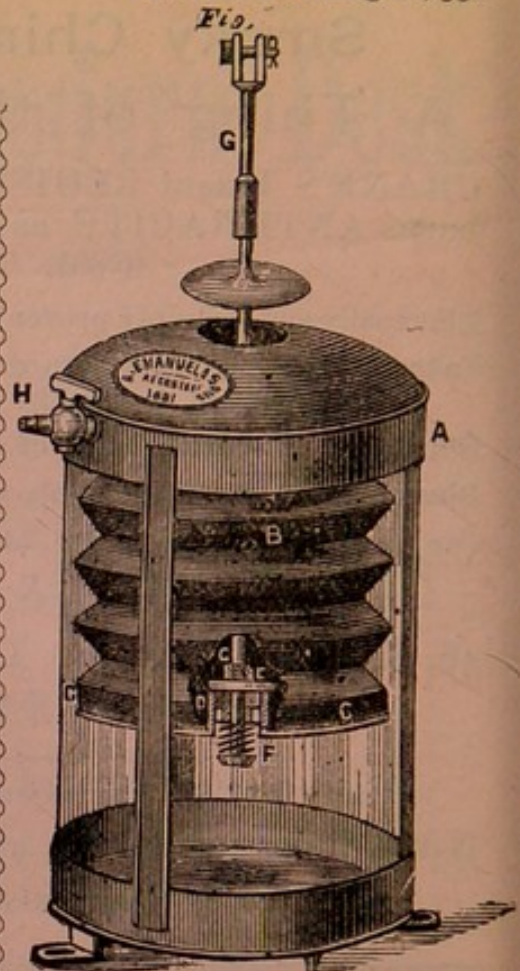


FIG. 2.

# Registered Closet Regulator.

FIG. 2.

The purpose of utility to which the shape or configuration of this design has reference, is to improve the form of air regulators used for controlling the closing of the water supply valve through which water is supplied to a closet basin each time the handle of the closet is pulled up, so that such Regulators may be made to act with greater certainty than hithertofore.

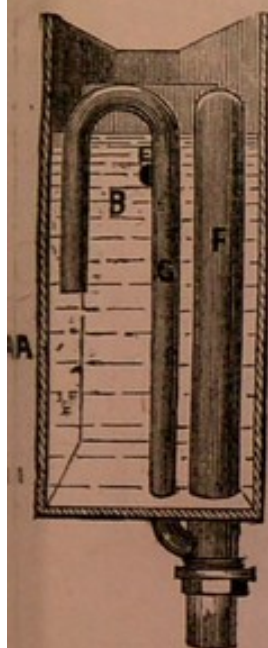
Fig. 2 is a vertical section of the Regulator. It consists of an outer case A, to the interior of the top of a flexible bag or diaphragm B. C is a rigid bottom to the diaphragm. D is a valve-seat standing up from the bottom C. E is a valve closing over the top of the valve-seat D. F is a spring by which the valve is held down on to its seat. G is a rod attached to the top of the valve E; this rod is coupled to the ordinary weighted lever arm of the closet, so that when the closet handle is pulled up the rod is also raised. H is a tap standing out from the outer case A, by which the escape of air from the interior case can be controlled. When the handle of the closet is pulled up, the rod G so raised, the valve E is lifted from its seat and air can then pass through it into the interior of case A. When the closet handle is put down and the weighted lever-arm is no longer held up by it, the lever arm is supported only by the rod G. The valve E is then at once closed by the action of the spring F, and by the weight resting upon it, and the escape of air from the outer case A, can only take place through the tap H; the descent of the rod is thus controlled, the time it takes to descend being adjusted by more or less opening the tap H.

**A. EMANUEL & SONS,**  
BIRMINGHAM—Phoenix Works, Speaking Stile Walk, Holloway Head.



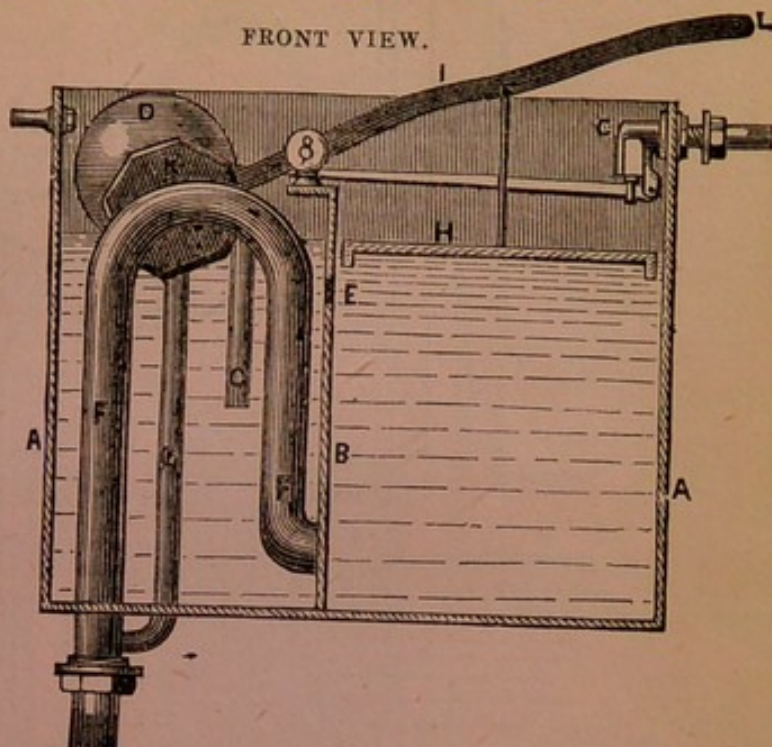
# A. EMANUEL & SONS'

SIDE VIEW.



THE Drawing shows a vertical section of the Water Waste Preventer.

FRONT VIEW.



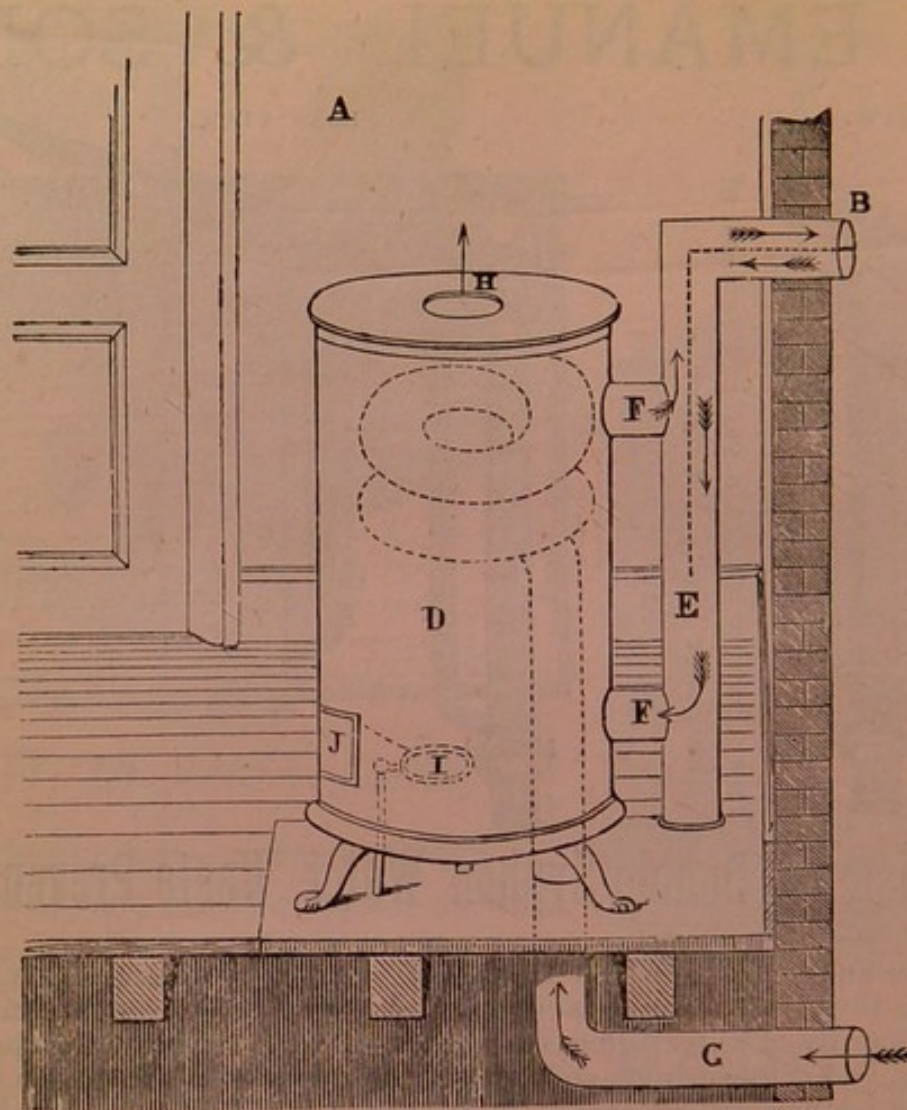
## Registered Double-Syphon Water Waste Preventer.

THE purpose and utility to which the shape or configuration of this design has reference, is to provide a simple and effectual means of preventing more than a regulated quantity of water being discharged at any one time into the pan of a water closet, and of ensuring a sufficient afterflow of water into the closet pan, after it has been flushed or cleaned out by the main discharge of the measured quantity of water into it.

A is a cistern divided into two compartments by a partition B. Water is supplied from a water supply pipe to the right hand compartment through a ball cock C, the ball, or float D, of which is in the left hand compartment. In the upper part of the partition B, is an opening E; when the right hand compartment has filled with water up to this opening, water flows through this opening into the left hand compartment, and fills that compartment, until by the rising of the ball cock or float D, the supply cock C is closed. F is a syphon pipe, the shorter limb of which opens into the right hand compartment of the cistern, and the longer limb of which is carried down to the closet pan or basin. G is a syphon pipe of smaller diameter, its shorter limb opens into the left hand compartment of the cistern, and its longer limb is led into the longer limb of the syphon F. H is a plate or float fitting loosely to the sides of the right hand compartment; it is attached to one arm of a lever I, and is held up by a weight K fixed to the other arm of the lever. A wire is attached to the lever at L, and when the wire is pulled downwards, by the pulling up of the closet handle in the ordinary manner, the plate or float H is forced downwards. Water is thus forced into the larger syphon, and this syphon becomes charged and at once empties the right hand compartment into the closet basin, the smaller syphon also becomes charged, and when the right hand compartment has been emptied, continues to deliver a small stream of water into the syphon F, until the water level in the left hand compartment gets below the end of the shorter limb of the smaller syphon. As the water level in the left hand compartment descends, the cock C opens and again fills the cistern, the right hand compartment being the first to fill as explained.

LONDON & BIRMINGHAM.





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The peculiarity of construction in this gas stove, which diffuses heat principally by convection, consists of an outlet so arranged with regard to the inlet (both being external to the apartment) that only so much air passes either way as is required to support and carry off the products of combustion.

The heat generated by combustion warms a thin coil of sheet iron in the interior of the stove, the coil being in communication at one end with the external atmosphere, and at the other with the apartment; thus a stream of fresh air, which is warmed in its passage, is drawn into, and equally diffused throughout, the apartment.

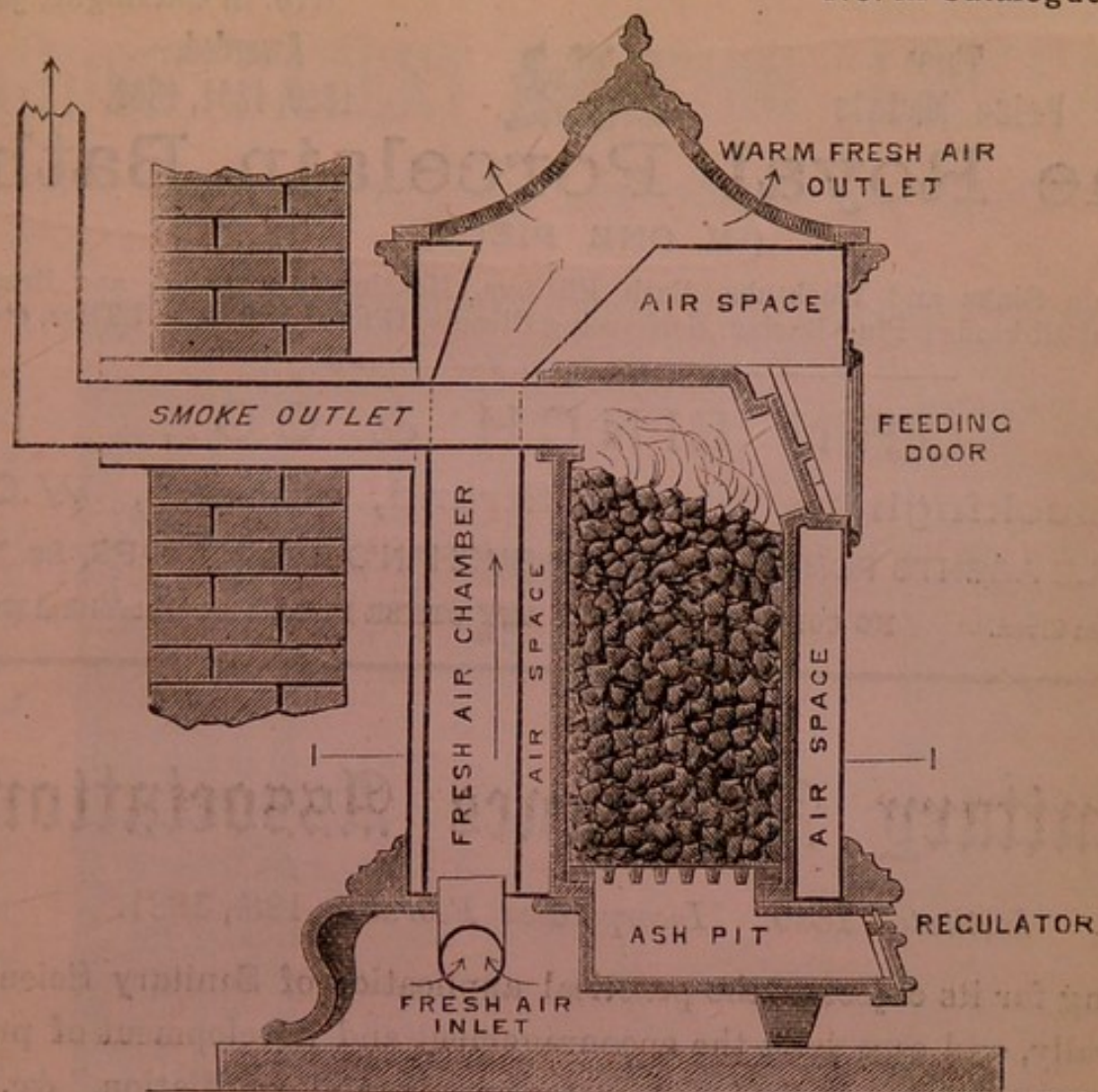
This stove is made in sheet iron, and also in copper; is suitable for warming bedrooms, sitting rooms, and small conservatories.

Consumption of gas from 10 to 15 feet per hour, according to size of burner.

Prices from £3 3s. upwards.

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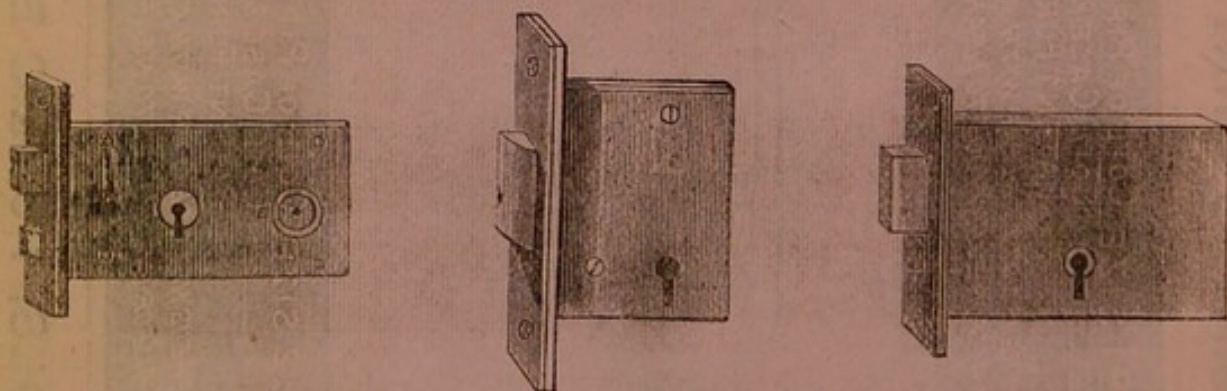
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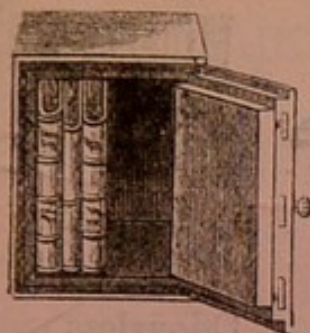
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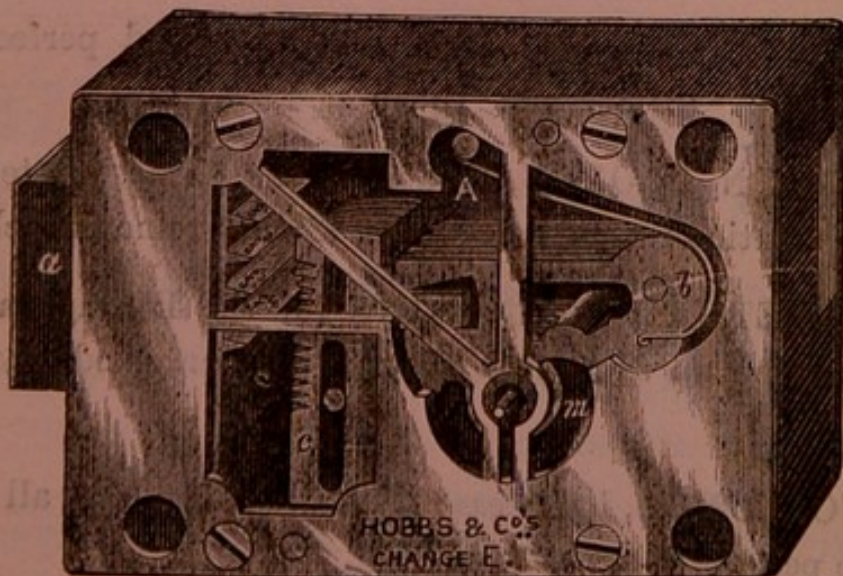
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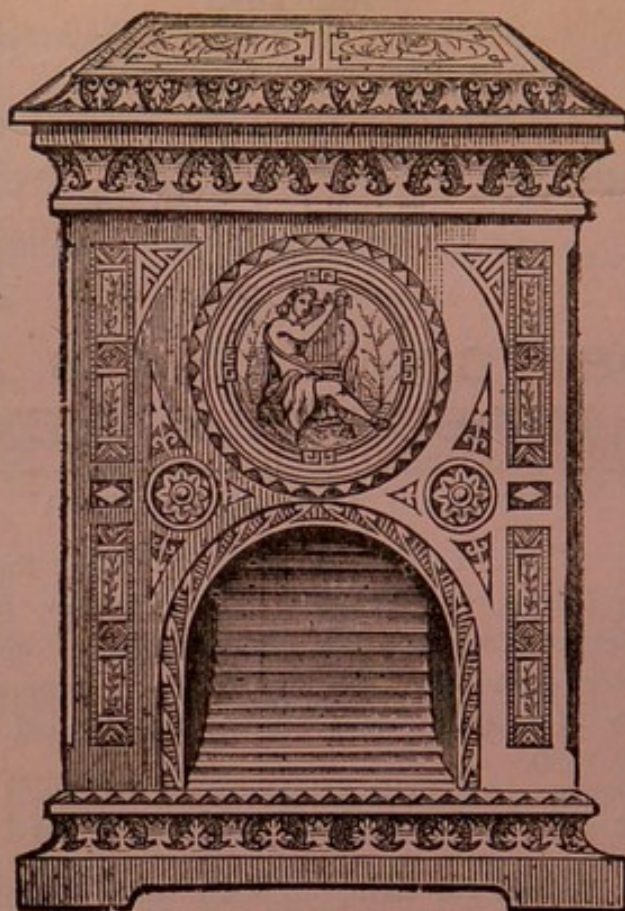


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The Necropolis Company's "Earth-to-Earth" Coffin, for which Letters Patent were taken out shortly after the appearance of Mr. Haden's famous "Letters" in the *Times*, was especially designed to carry out to its fullest extent the salutary system which had been publicly recommended, while it could not possibly offend the most sensitive eye, or jar upon any conceivable prejudice. Made so as to possess the strength, solidity, and general appearance of an ordinary Coffin, yet its construction is such that portions thereof become rapidly dissolved by the combined pressure and moisture of the ground, thus allowing the earth to act with its potent "drying and congealing power—to employ the forcible language of Aristotle—upon the decomposed elements of humanity.

*The Times* of January 15, 1879, while contrasting the claims of Cremation with the earth-to-earth burial, after a fair and dispassionate review of the proposed system in its several bearings, puts its *veto* on the rash and unpopular scheme. With all the weight of its authority, it thus concludes:—"All that cremation proposes to do might, it seems to us, be attained equally well by some other and less questionable process. If our mode of burial were changed after the fashion Mr. Seymour Hayden has recommended, if iron or leaden coffins were done away with, and *if earth were simply restored to earth*, there would be the least possible room left for offence prospectively or subsequently. There are some matters which it is not well or wholesome to consider too curiously. The action of the furnace may be rapid, but that is all. We question whether its secrets, any more than those of the grave, would bear closely looking into."

The Company undertake the entire arrangement of Funerals, without the intervention at any stage of the proceedings of the ordinary undertaker; all that is necessary being that, in case of death, notice of the event should immediately be forwarded to the Office.

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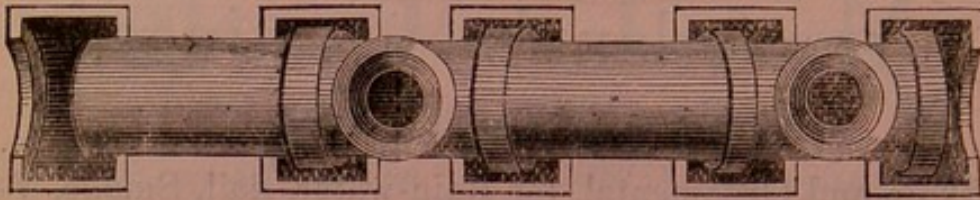
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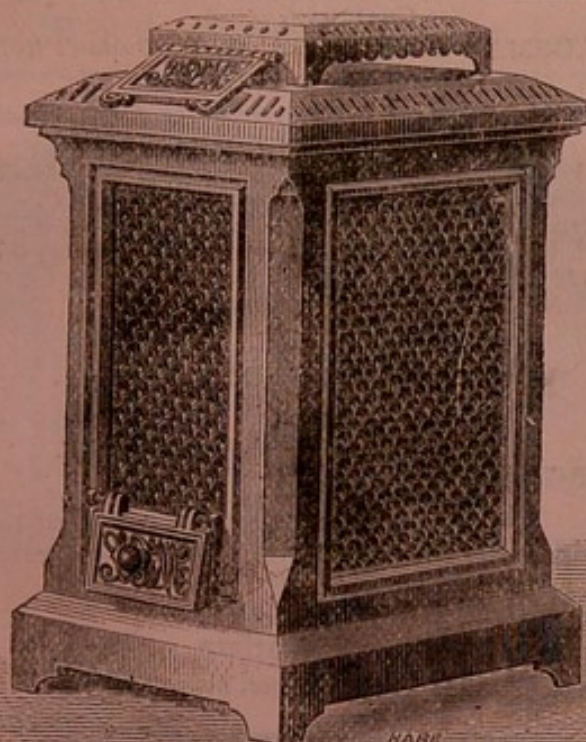
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WORKS—Battersea, London; Bromborough Pool, Birkenhead.



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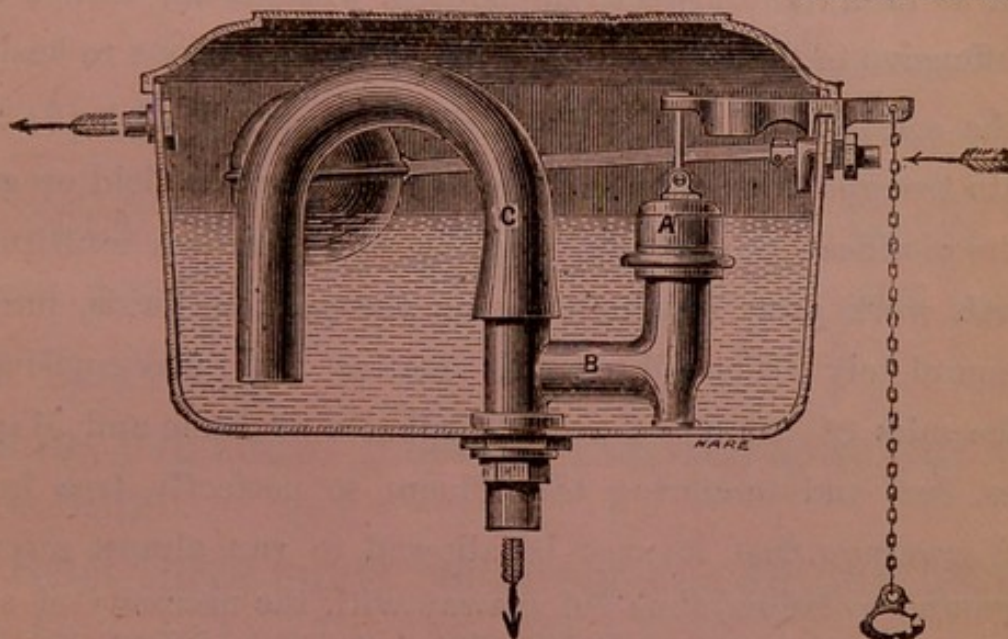
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MAKERS—C. PORTWAY & SON, Halstead, Essex.

AGENTS—G. C. LEWIS & SONS, 1, Lowndes Terrace, Knightsbridge.

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## PURNELL'S Patent Syphon WATER WASTE PREVENTER,

FOR FLUSHING CLOSETS, URINALS, AND OTHER SANITARY PURPOSES.

The advantages of this Patent Waste Preventer are—Efficiency, Durability, and Simplicity. It is Perfect in Action, and not liable to get out of order. The action of the cistern may be described as follows:—Immediately the valve A is opened, the water flows through connection B into discharge pipe, causing a partial vacuum, the water rushing to fill up the vacuum starts the syphon C. When once the syphon is set in action, it will continue running until the whole contents of the cistern have been discharged. The valve being self-acting, no waste of water can possibly take place, whether the handle is secured or not, until it is brought into action again. The above can be seen in action at

J. PURNELL & SON'S, 15a, Kensington Place, Page Street, Westminster, S.W.

*Manufacturers of Iron Doors and Frames, and White Enamelled Stoneware Channels for Manholes.*

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## PREVENTION OF LEAD POISONING.

### QUIRK, BARTON, & Co.,

61, GRACECHURCH STREET, LONDON, E.C.,

MANUFACTURERS OF

## PATENT TIN-LINED LEAD PIPING,

*For the Prevention of Lead Poisoning of Water, Beer, Soda Water, and other liquids.*

PATENT TIN-LINED SHEET LEAD FOR COUNTER TOPS, LINING CISTERNS, VATS, &c.

Makers of Block Tin Tubing and Sheets, Pewter Composition, Gas Tubing, Lead Piping, &c.

Works: NORMANDY WHARF, ROTHERHITHE, S.E.



“Patentee.”

## PATENT 4,479.

An Apparatus for Earth-filtering all discharges from Water-closets; retaining the insoluble solids in an air-tight receptacle for removal at intervals of weeks or months, without the escape of any odour offensive to the community or any gases injurious to health.

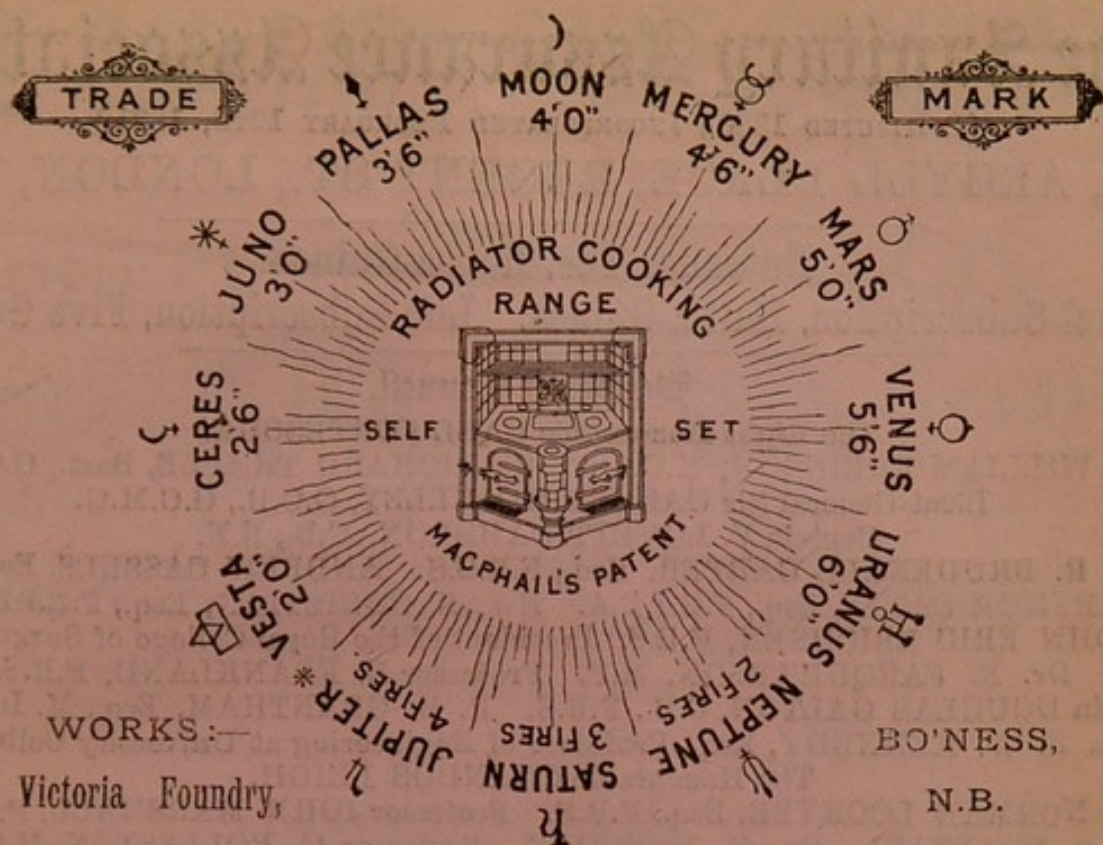
All the solids in *solution* pass quickly downwards with the flow of fluid into troughs filled with common earth from the field or garden, and “the nitrification Bacteria” contained in countless multitudes in this earth work away continuously on the passing fluids, purifying them completely from all organic matter and decomposing and *fixing* the salts of Ammonia and Phosphates of Lime and Magnesia, Silicates, &c., and rendering the effluent so perfectly free from all taint of sewerage that it may be allowed to run almost anywhere, above ground or below, thus doing away with the necessity of sewers, keeping the rivers free from pollution, and supplying the agriculturist with the very best manure known for fertilizing the land and increasing the crops.

This application of earth-filters to water-closets goes far to solve the problem set forth in the Article on Agriculture in the edition of the “Encyclopædia Britannica” now publishing, viz.: “how to collect and utilize town sewage without offence to the senses or harm to the health of the community.”

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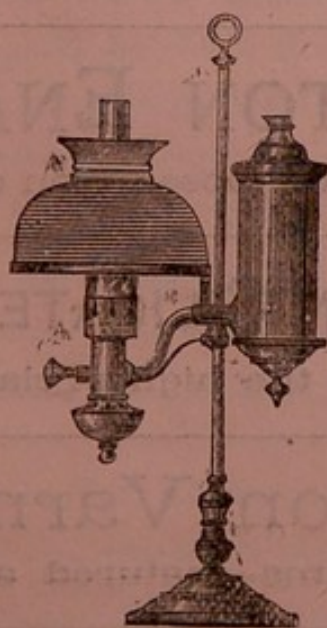
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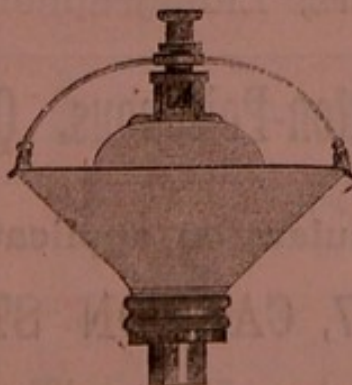
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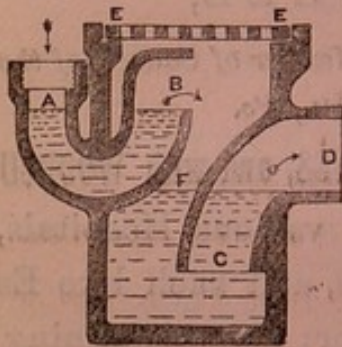
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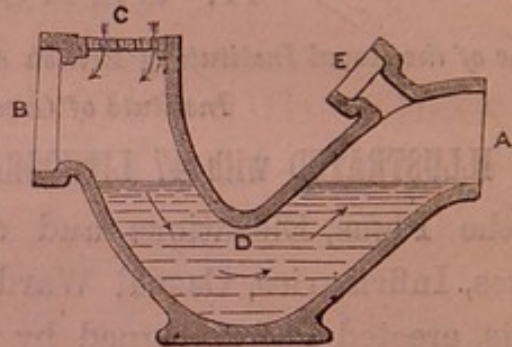
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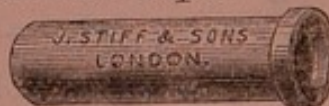
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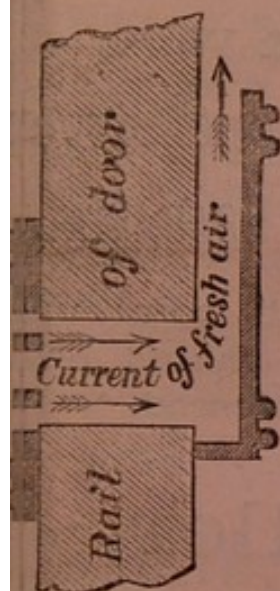


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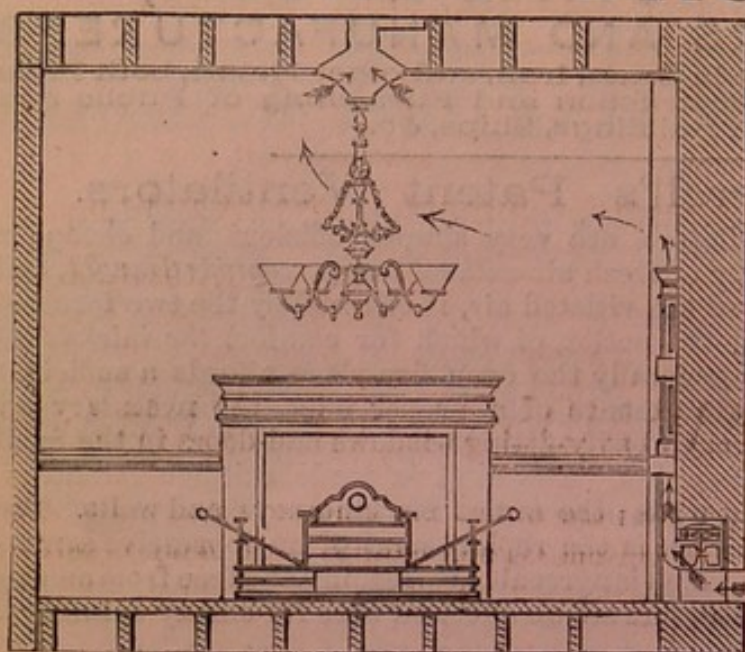
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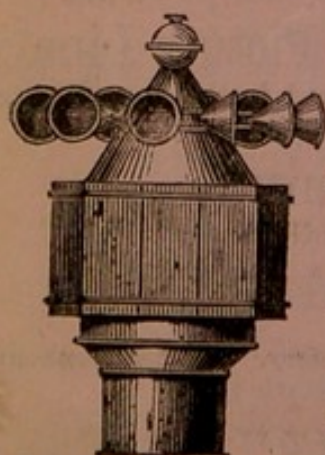
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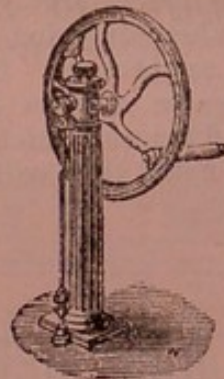
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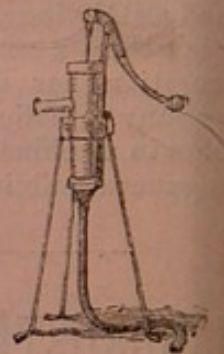
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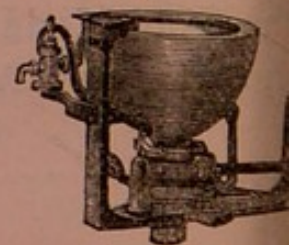


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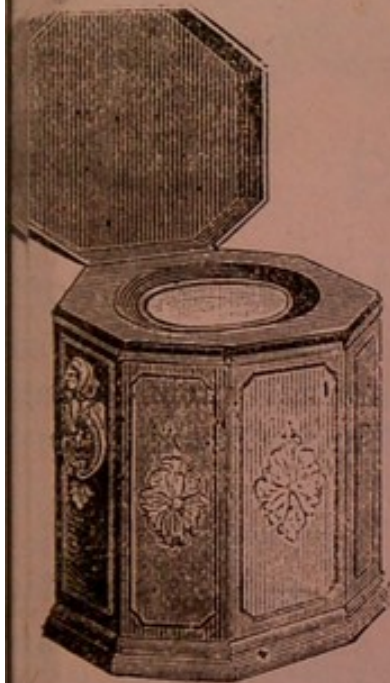
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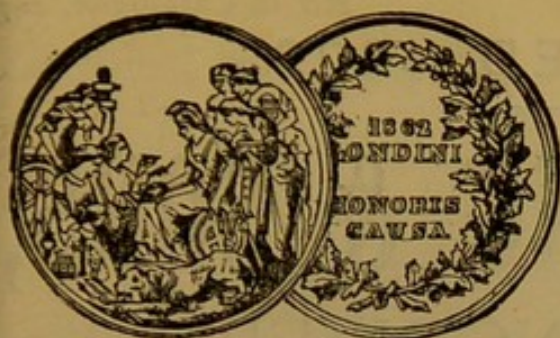
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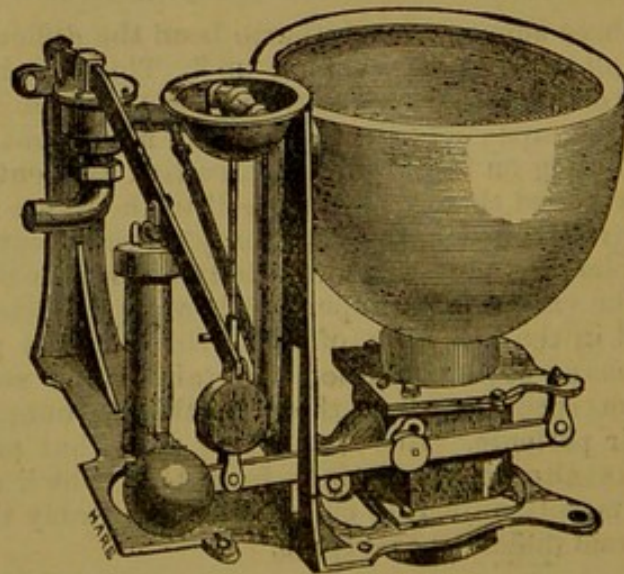
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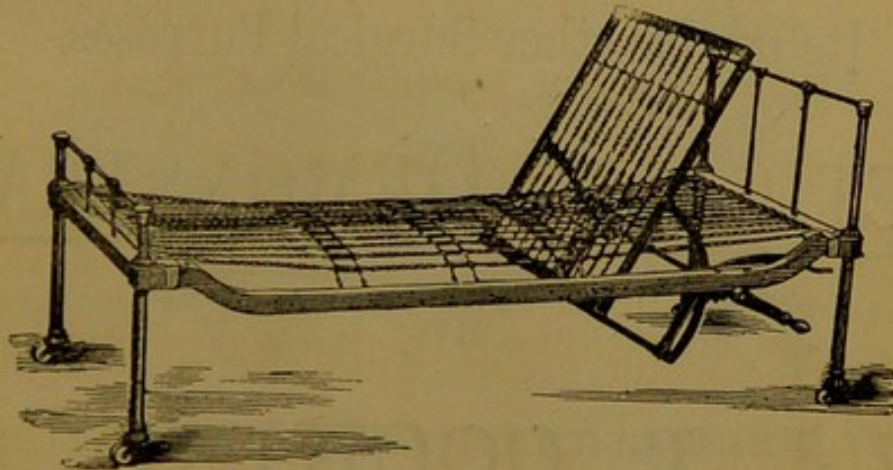
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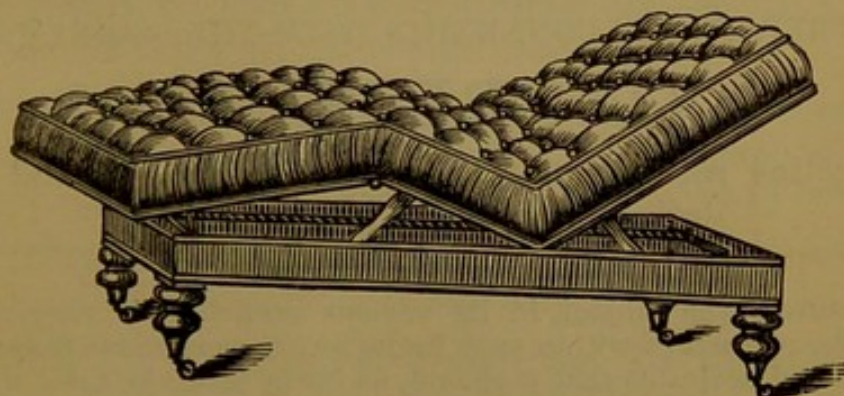
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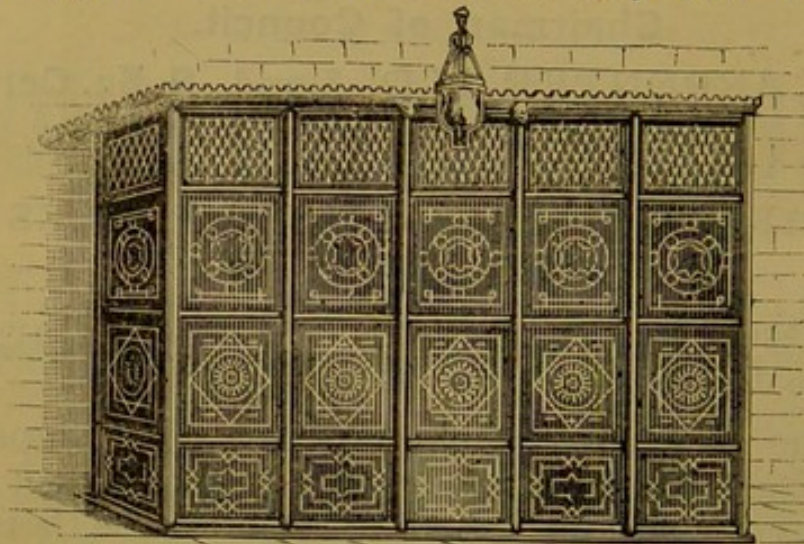
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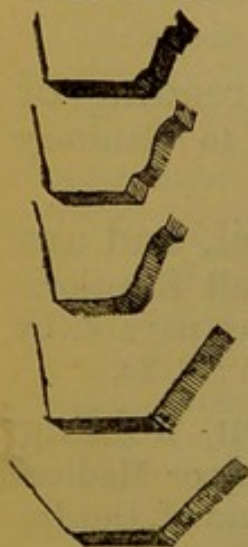
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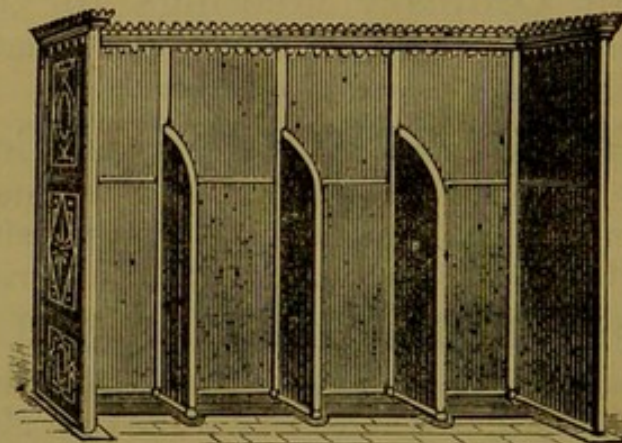


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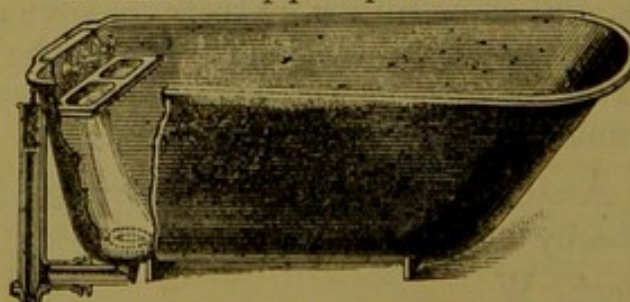
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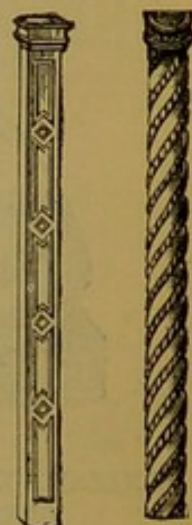
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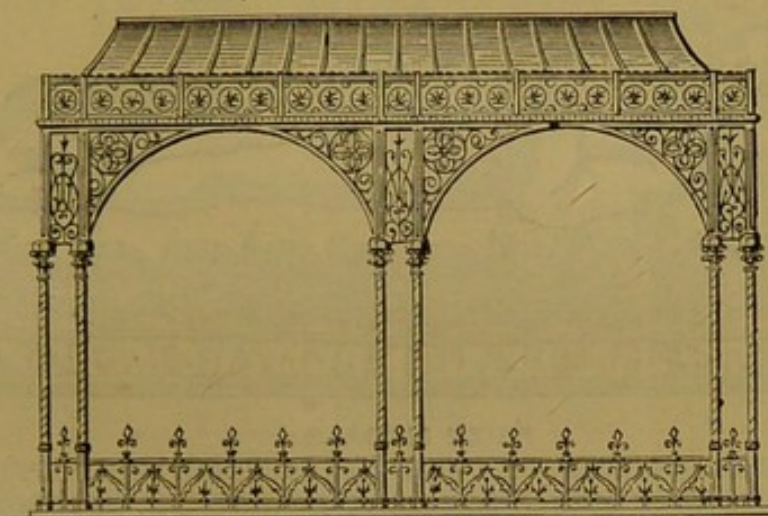
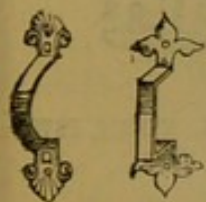


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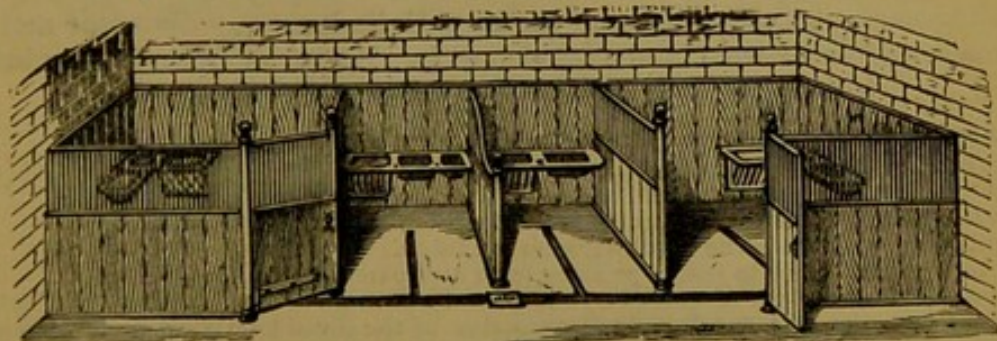


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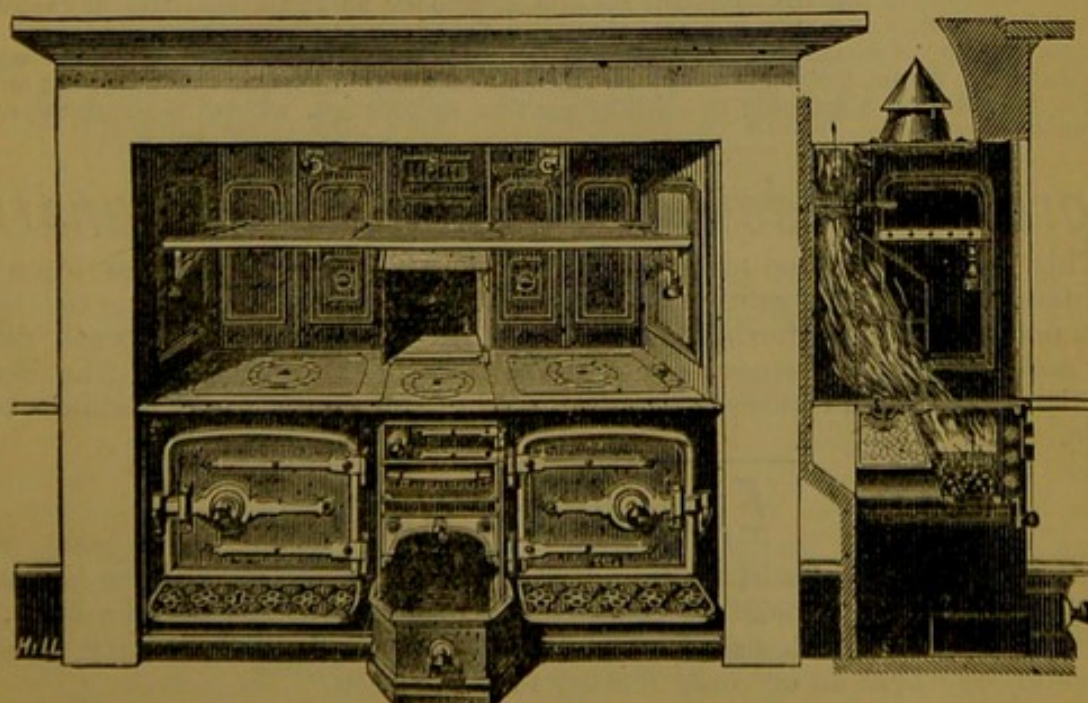


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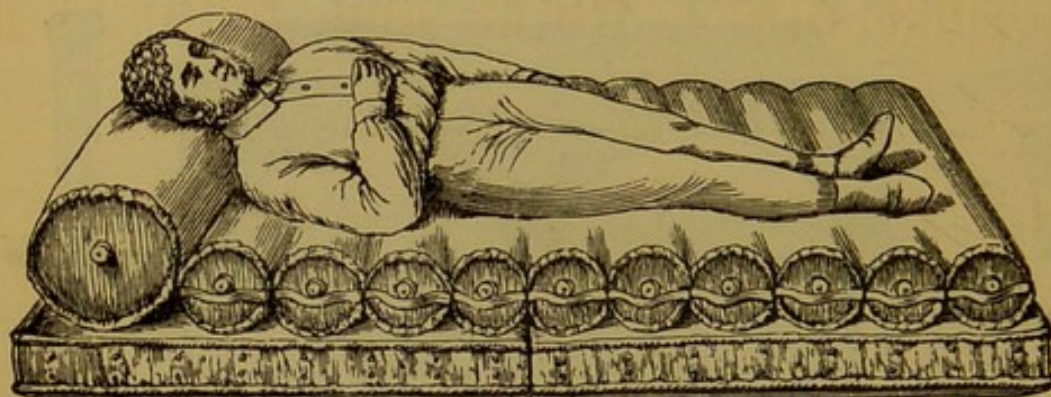
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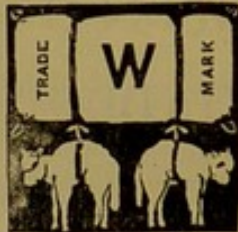
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