

An improved apparatus for vapourizing medicines, disinfectants, perfumes and other substances / [William Henry Murray].

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Complete Specification Left, 16th Aug., 1890—Accepted, 20th Sept., 1890

PROVISIONAL SPECIFICATION.

An Improved Apparatus for Vapourizing Medicines, Disinfectants, Perfumes, and other Substances.

WILLIAM HENRY MURRAY Chemist Assistant 15 Mayfield Villas Merton Road Wandsworth Surrey and THOMAS JAMES KINSLEY, Gentleman of 108, Gaisford Street, Kentish Town, in the County of Middlesex do hereby declare the nature of this invention to be as follows :—

- 5 An apparatus, "which is to be used for the purpose of vaporising" medicinal, disinfectant, perfuming and other substances consisting of a double metal cone connected at its base.
In the enclosure formed by the inner and outer metal cones it is proposed to use a heat producing power.
- 10 The inner cone is to be made of a heat conducting metal, and hollow, so as to contain the flask or bottle holding the substance to be vapourised ; and will terminate at a certain height above the outer cone.
The outer cone is to be made of a non-heat conducting metal.
The heat used may be either gas, oil or spirits of wine.
- 15 Dated this Thirtieth day of November 1889.

WILLIAM HENRY MURRAY.

COMPLETE SPECIFICATION.

An Improved Apparatus for Vapourizing Medicines, Disinfectants, Perfumes, and other Substances.

- 20 We WILLIAM HENRY MURRAY of 15 Mayfield Villas Merton Road Wandsworth in the County of Surrey Chemists Assistant and THOMAS JAMES KINSLEY of 108 Gaisford Street Kentish Town London Gentleman do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement :—
- 25 This invention consists of an apparatus or contrivance for vapourizing by heat (such as from the flame of a gas or other suitable burner or lamp—for instance a spirit lamp) any suitable medicines chemicals or chemical compounds for medicinal purposes or otherwise such as disinfectants and perfumes *etcetera* or for vaporizing or burning any other substances or materials as desired (for instance insect destroyers
- 30 microbe killers *etcetera etcetera*) and for which it may be suitable.
The chemicals or ingredients are contained in a kind of flask or holder of any suitable material (but advantageously made of glass) and this holder or vessel is placed in the centre part of the apparatus or contrivance which forms the subject matter of the present invention and which we will now proceed to fully describe with
- 35 reference to the accompanying sheet of drawings—so that the said invention may be fully understood and readily carried into practice.
Figure 1 represents a side view in elevation of the said apparatus or contrivance and heated by a gas jet on the well known "Bunsen" burner principle.
Figure 2 is a vertical central section of Figure 1.
- 40 Figure 3 is a plan of Figure 1 with the double shield or cover removed.
Figure 4 is a similar apparatus only heated by a spirit lamp instead of by a gas jet as in Figures 1 to 3.
a is the bottom or supporting frame mounted on legs *a*¹ and carrying the gas pipe *b* the turned up end *b*¹ of which forms the burner.
- 45 Upon this frame *a* is placed the flask *c* or other convenient vessel which contains the chemicals or ingredients to be vapourized and over this flask *c* is placed the double

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casing *d* and *e* the inner part *d* of which completely covers the flask or vessel *c* and forming an annular space *x* between said inner case *d* and the outer wall *e* and top *e*¹.

The burner or heat producer is mounted in this annular space *x* between the inner casing *d* and the outer casing *e*—and air to support combustion is admitted through suitable openings below while the products of combustion can escape through suitable openings *f* and *f*¹ in the casing or outer wall *e* these holes *f* and *f*¹ being of such a size that a warm body of air is retained in the space *x*.

The flame from the burner thus produces a constant heat (subject to regulation) around the flask or chemical holder *c* and so vapourizes the contents which pass out up the passage or chimney *d*¹ into the room or compartment in which the apparatus is in use.

Figure 4 shows an equivalent apparatus only the heat producer in this case is a spirit lamp—the reservoir or vessel *g* for holding the spirits forming the base or stand upon which legs *a*¹ of the apparatus are mounted.

All the other parts are identical or equivalent to those previously described.

It will be obvious that the apparatus may be made any size and proportions or dimensions according to requirements and any suitable material or materials may be used in the construction thereof—though it may be mentioned that brass or copper will be found very advantageous for forming the parts *d* *d*¹ and *e* *e*¹ which latter may be formed all in one part as shown or in separate parts if desired.

The form or shape of the apparatus may also be varied if desired.

The arrangement of the shield or wall *d* between the burner or heat producer and the vessel *c* containing the chemicals *etcetera* is of great importance and forms an essential feature of our present invention.

Having now particularly described and ascertained the nature of this invention and in what manner the same is to be performed we declare that what we claim is:—

1. An apparatus for vapourizing chemical or other ingredients having a double metal covering or hood substantially as and for the purposes hereinbefore described and illustrated in the drawings annexed.

2. An apparatus for vapourizing chemical or other ingredients in which a gas or other suitable burner or heat producer is arranged and acts in the space formed between the inner and outer walls of a double cover or hood—the vessel containing the ingredients *etcetera* to be vapourized being within the inner wall and thus having a wall or covering interposed between same and the burner or heat producer.

3. In an apparatus for vapourizing chemical or other ingredients—the combination of a gas or other burner or heat producer with a double cover or hood substantially in the manner and for the purposes hereinbefore set forth.

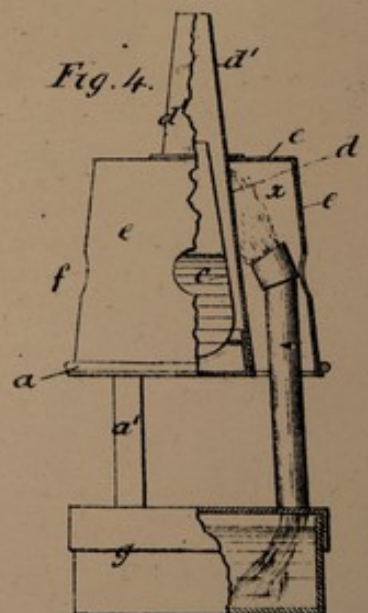
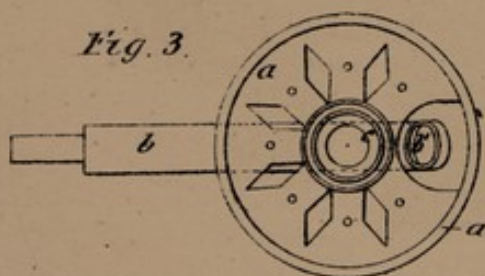
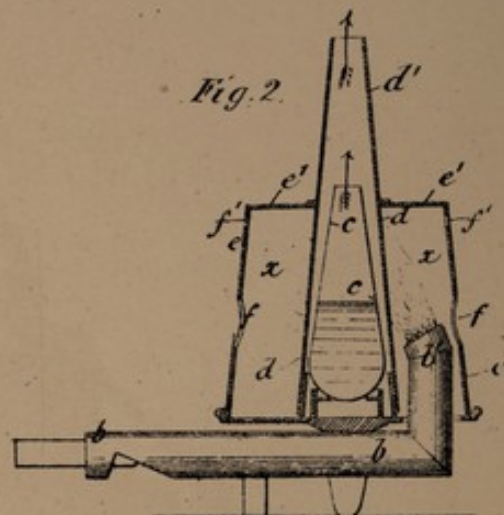
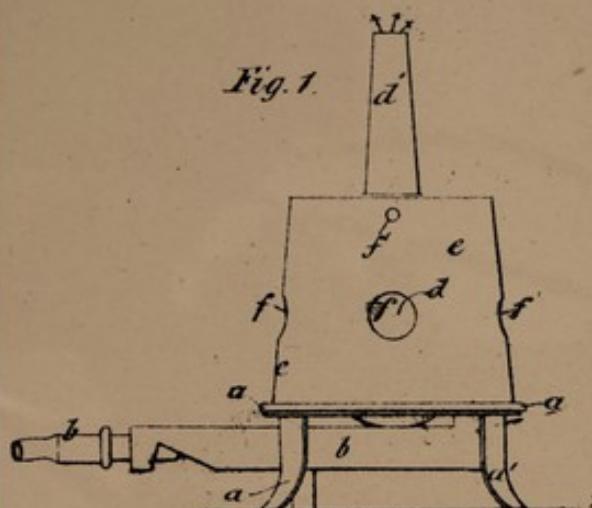
4. An apparatus for vapourizing chemical or other ingredients in which the vessel containing said chemicals *etcetera* has a complete shield or cover interposed between same and the flame from the gas burner or other heat producer substantially in the manner and for the purposes hereinbefore set forth.

Dated this 16th day of August 1890.

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[This Drawing is a reproduction of the Original on a reduced scale]

