

**Improvements in apparatus for generating steam for medicinal purposes /
[Max Freidrich Hentschel].**

Contributors

Hentschel, Max Freidrich.
Herbert Haddan & Co.

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Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
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PROVISIONAL SPECIFICATION.

Improvements in Apparatus for Generating Steam for Medicinal Purposes

I, MAX FRIEDRICH HENTSCHEL, of Leisnig, in the Kingdom of Saxony, Manufacturer, do hereby declare the nature of this invention to be as follows:

This invention relates to apparatus for generating steam for medicinal purposes.

5 The novel feature of this apparatus as compared with known apparatus for the same purpose, consists in the fact that in addition to the heating tube, the steam pipe and the condenser trap connected therewith are arranged within the flat water chamber in order that the apparatus can be conveniently carried in a coat pocket or the like.

10 In a convenient form the apparatus may comprise a closed, flat, water chamber, having curved ends and within which is a compartment for condensed steam.

An aperture with a stopper is provided for the entrance of water to the chamber, and an aperture and stopper serve for the removal of water from
15 the condensed steam chamber or condenser trap. The heating gases pass through a tube which passes straight through the water chamber and is open at its upper and lower ends. The heat generated by the burner passes through the said tube and heats the water in the water chamber. The spirit lamp fits into the lower part of the apparatus in which it is movable in guides so
20 that it can at any time be easily recharged. The movable lamp is held fast in the apparatus by a spring running in said guides.

From the water chamber steam passes through a pipe within it to the condenser trap and thence through a discharge nozzle. The action of the apparatus is as follows:

25 When the water in the water chamber has been sufficiently heated by the flame of the burner steam is generated in said chamber and passes through the steam pipe to the chamber which retains the condensed steam. From the latter chamber steam passes through discharge nozzle and is thereupon used for the purpose required. The apparatus may be provided with foldable
30 handles which may be insulated from heat by means of wood, leather or the like.

Dated this 7th day of October 1903.

HERBERT HADDAN & Co.,
Agents to Applicant

Improvements in Apparatus for Generating Steam for Medicinal Purposes.

COMPLETE SPECIFICATION.

Improvements in Apparatus for Generating Steam for Medicinal Purposes.

I, MAX FRIEDRICH HENTSCHEL, of Leisnig, in the Kingdom of Saxony, Manufacturer, do hereby declare the nature of my invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

This invention relates to apparatus for generating steam for medicinal 5 purposes.

The novel feature of this apparatus as compared with known apparatus for the same purpose, consists in the fact that in addition to the heating tube, the steam pipe and the condenser trap connected therewith are arranged within a flat chamber, in order that the apparatus can be conveniently 10 carried in a coat pocket or the like.

One form of the apparatus is shown in the annexed drawings, in which Fig. 1 is a vertical section, and Fig. 2 a diagrammatic plan view thereof.

The apparatus comprises a closed, flat, water chamber *a* having curved ends and within which is a compartment or trap *b* for condensed steam. 15

An aperture with a stopper *c* is provided for the entrance of water to the chamber *a* and an aperture and stopper *d* serve for the removal of water from the chamber *b*. The heating gases pass through the tube *e* which passes straight through the chamber *a* and is open at its upper and lower ends. The heat generated by the burner *f* passes through the said tube *e* in the 20 direction of the arrow and heats the water in the chamber *a*. The spirit lamp *g* fits into the lower part of the apparatus in which it is movable in guides *h*, so that it can at any time be easily recharged at *o*.

The movable lamp is held fast in the apparatus by a spring *i* running in said guides *h*. 25

From the chamber *a* steam passes through the pipe *k* to the condenser trap *b* and thence through the nozzle *n*. The action of the apparatus is as follows:—

When the water in the chamber *a* has been sufficiently heated by the flame of the burner *f* steam is generated in the chamber *a* and passes through the pipe *k* to the chamber *b* which retains the condensed steam. From the 30 chamber *b* steam passes through the nozzle *n* and is thereupon used for the purpose required. The apparatus is provided with foldable handles *m* which may be insulated from heat by means of wood, leather or the like.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that 35 what I claim is:—

1. In apparatus of the character indicated the combination of a closed flat chamber adapted to receive water, means for heating the water therein, a condensation chamber within said water chamber, a heating chamber passing completely through the water chamber, interior means of communication between 40 the water chamber and the condensation chamber and means for discharge of steam from the latter substantially as described.

2. In apparatus of the character indicated the combination of a closed flat chamber adapted to receive water, means for heating the water therein, a con-

Improvements in Apparatus for Generating Steam for Medicinal Purposes.

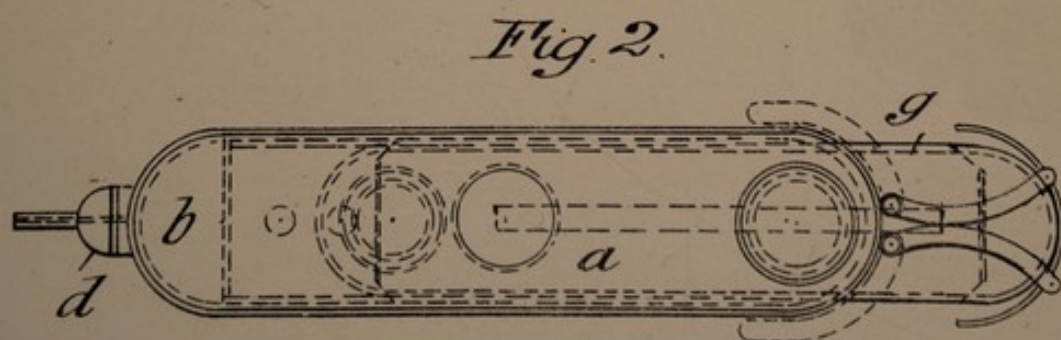
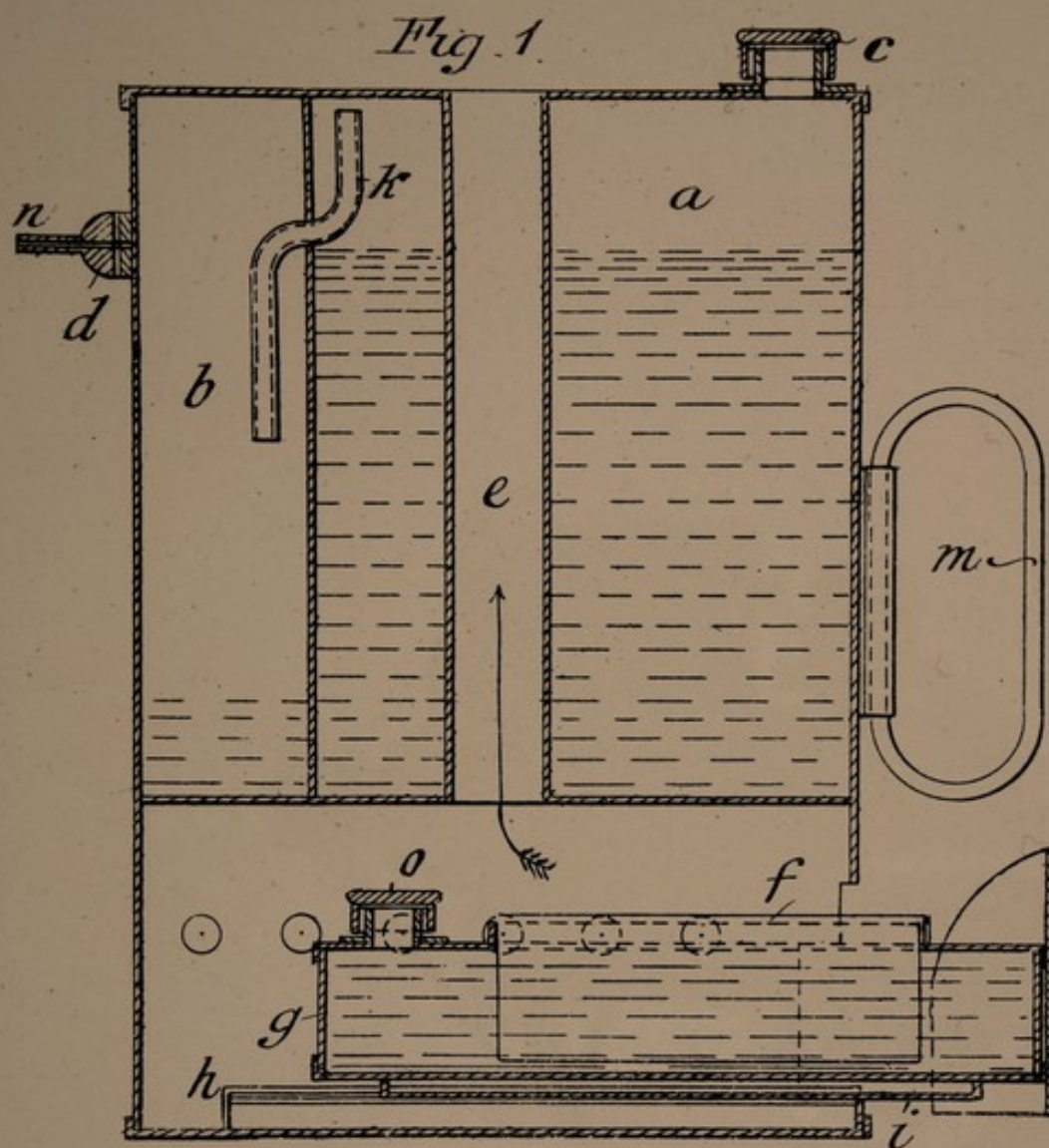
denser trap within said chamber, a heating tube passing completely through the water chamber and open above and below, an interior pipe passing from the water chamber to the condenser trap and means for discharge of steam and products of condensation from said condenser trap substantially as described.

5 Dated this 7th day of July, 1904.

HERBERT HADDAN & Co.,
Agents to Applicant,
18 Buckingham Street, Strand. W.C.

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

