

(No Model.)

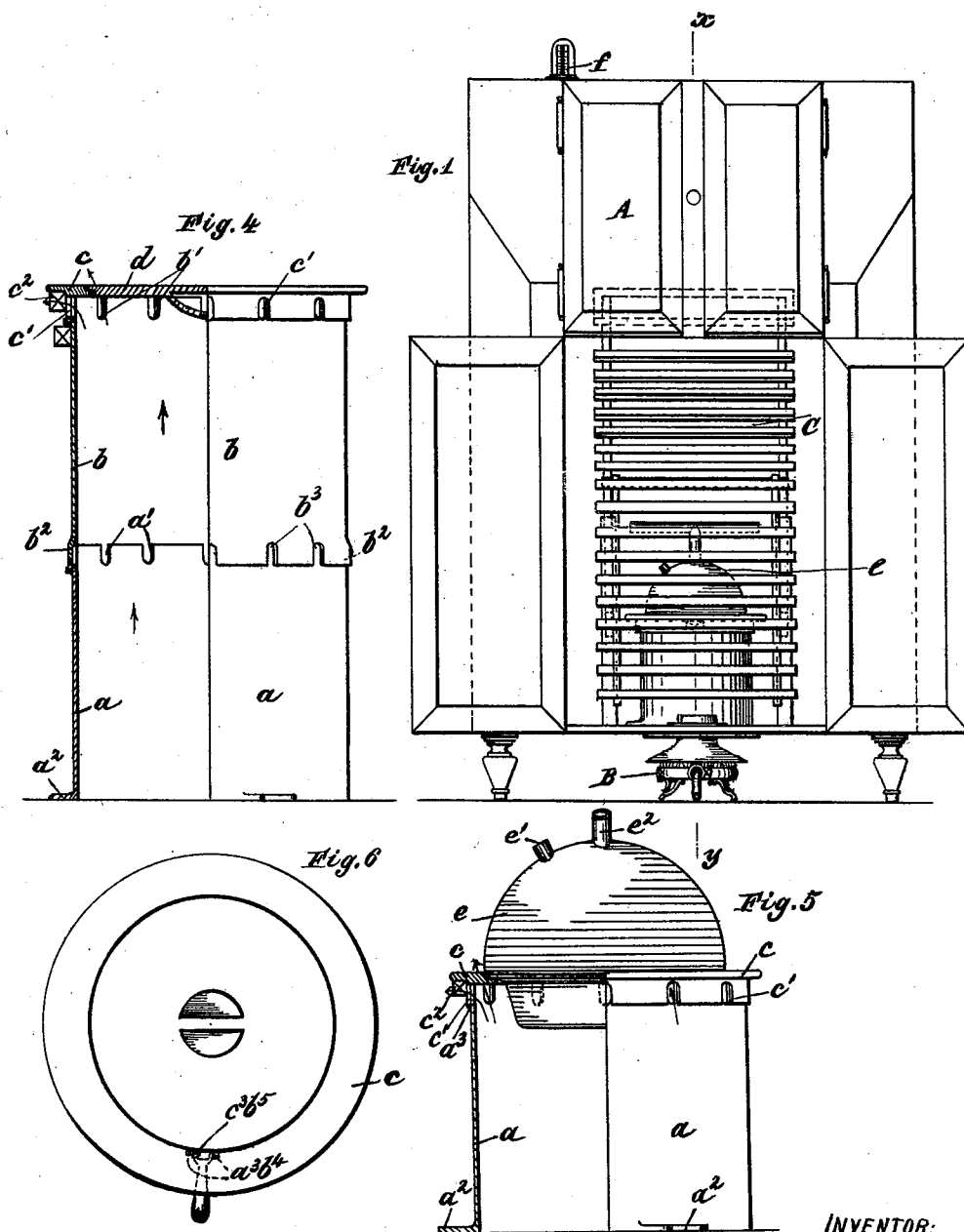
2 Sheets—Sheet 1.

S. MASCHKE.

HOT AIR AND STEAM BATH APPARATUS.

No. 568,622.

Patented Sept. 29, 1896.



WITNESSES.

John Loma
C. Sedgwick

INVENTOR:

S. Maschke
BY Munn & Co
ATTORNEYS

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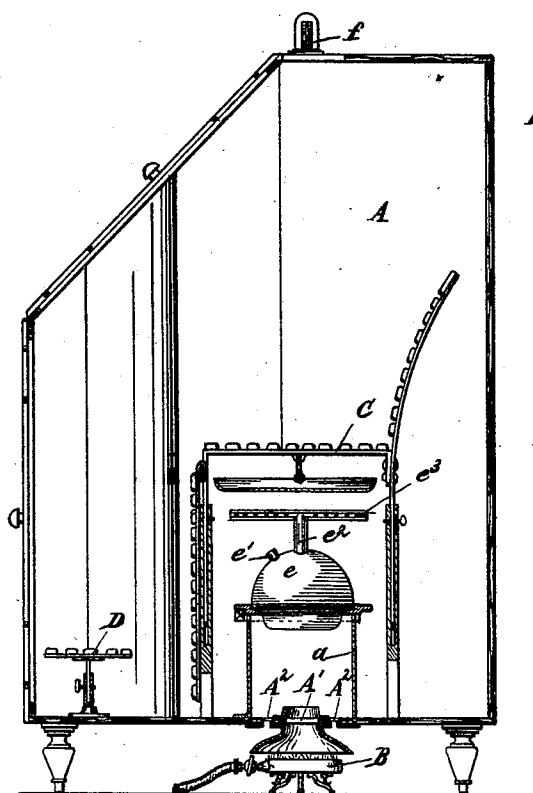


Fig. 2.

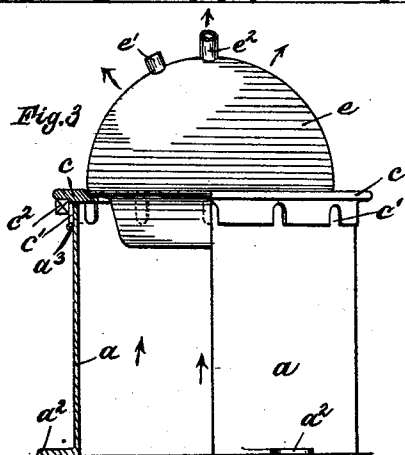


Fig. 3.

WITNESSES.

John Lottka
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UNITED STATES PATENT OFFICE.

SALLI MASCHKE, OF BERLIN, GERMANY.

HOT-AIR AND STEAM BATH APPARATUS.

SPECIFICATION forming part of Letters Patent No. 568,622, dated September 29, 1896.

Application filed August 28, 1895. Serial No. 560,835. (No model.)

To all whom it may concern:

Be it known that I, SALLI MASCHKE, of Berlin, Germany, have invented a new and Improved Hot-Air and Steam Bath Apparatus, of which the following is a full, clear, and exact description.

This invention relates to a bath apparatus which is so constructed as to be capable of use either as a hot-air bath or a steam-bath, or a combined hot-air and steam bath. These objects I attain by means of the particular arrangement of parts hereinafter described and claimed, and it has also been my aim to provide an apparatus of the above-indicated class which will be simple in construction and manipulation, and with which the temperature of the air and the generation of steam can be readily regulated.

The accompanying drawings represent one form of construction of my improved bath apparatus.

Figure 1 is a front view of the entire apparatus. Fig. 2 is a sectional elevation on the line $x y$ of Fig. 1. Fig. 3 is an elevation, partly in section, showing the oven as arranged for a steam-bath. Fig. 4 is a similar view showing the apparatus as arranged for a hot-air bath. Fig. 5 is a view similar to Fig. 3, showing the apparatus as arranged for a combined hot-air and steam bath; and Fig. 6 is a plan view of the arrangement shown in Fig. 4.

Similar characters of reference indicate corresponding parts in all the figures.

The oven is constructed of iron or other suitable material, and consists of a shell made in two sections a and b . The upper edge of each of the said sections is provided all around with apertures or notches a' and b' , respectively. In a like manner the lower edge of the cover c is provided with apertures or notches c' , said openings being so arranged that they will register with those of either section a or b when the cover is placed thereon.

The sections of the oven are constructed to be superimposed, the section b being provided at its lower end with an enlargement b^2 , which fits over the upper edge of the lower section a and which, according to its position, will either allow the entrance or exit of air through the registering openings in the sections a and b or prevent the egress of air when said openings are out of registry. In

a like manner the apertures in the cover c and in the upper edge of the upper section b can be brought into registry by turning the cover relatively to the upper section. In order that the said openings may be readily brought into and out of registry, the two sections a and b , the enlargements b^2 , and the cover c are provided with projections a^3 , b^4 , b^5 , and c^3 , which form stops to limit the turning movement of the sections and cover to hold them in such a position that the openings will either register accurately or that the openings of one part will engage the solid portions between the openings of the other part.

The cover consists of a ring c and a disk d , fitting into it, the latter being provided with a central recess having a cross-bar extending over it, this construction being well known. When it is desired to produce steam, a heating vessel e is substituted for the disk d . (See Figs. 3 and 4.) This heater is semispherical and closed with the exception of an outlet-pipe e^2 . e' indicates a plug to close an opening through which the water is poured into the heater.

The pipe e^2 carries a horizontal perforated pipe e^3 , (see Figs. 1 and 2,) so that steam generated in the heater e will escape through the said perforations. At the lower end of the section a are provided lugs a^2 , serving to secure the said section to the bottom of the casing A . The said casing is provided with an aperture A' , with which the section a is concentric. The aperture A' is intended to allow the heated gases from a burner B to pass upward into the oven, and, if desired, a funnel-shaped deflector may be inserted in the opening A' in order to contract and direct the flame.

When it is desired to use the apparatus for a hot-air bath, the cover c , with the disk d , is placed either directly on the section a , or, preferably, as shown in Fig. 3, on the upper section b , in such a manner that the apertures in the upper edge of the section b and in the cover c register with one another.

By turning the cover c , which may be done by means of a wrench applied at c^2 , the apertures may be enlarged or reduced, and in this manner the temperature within the casing A may be regulated.

It will be understood that when using the

apparatus as a steam-bath the upper section *b* is removed and the water-heater *e* is placed into the aperture of the cover *c*, resting on the upper edge of the lower section *a*. In this case the openings for the passage of heated air are closed. When it is desired to supply at the same time heated air and steam, the cover *c*, being arranged in the manner indicated in Fig. 2, is turned so as to bring the apertures in the cover *c* and in the upper edge of the section *a* into partial or complete registry, so as to allow the heated air to pass out from the oven into the casing A. (See Fig. 5.)

By constructing the shell of the oven in two sections I may employ the lower section *a* either alone, so as to bring the heater *e* when it is used as near as possible to the burner B, or both sections *a* and *b* will be used simultaneously, thereby affording a large heated area when the apparatus is employed as a hot-air bath. (See Fig. 4.)

It will be observed from the foregoing description that my improved apparatus may be readily changed for use either as a hot-air bath or a steam-bath or a combined steam and hot-air bath. In each case the temperature within the casing A may be readily regulated. This temperature may be ascertained by means of a thermometer *f*, secured to the top of the casing, so as to protrude therefrom and to be visible to the person using the apparatus. I will also remark that the shape of the casing is somewhat different from that ordinarily employed.

Instead of making the said casing rectan-

gular or square I have provided it with a tapering or rounded front portion, (see Fig. 1,) whereby the volume of air confined in the casing is reduced to a minimum, and the amount of heat necessary to bring said air to the desired temperature is diminished correspondingly.

The seat C and the foot-rest D are constructed so as to be capable of adjustment according as to whether only one section or both sections of the shell of the oven are used. I prefer to provide under the seat a shield of sheet-iron in order to protect the seat from the direct action of the steam and the heated air.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

An apparatus for use as a steam-bath, hot-air bath, or combined hot-air and steam bath, comprising an oven constructed of a plurality of superposed detachable sections, provided at their adjacent ends with apertures adapted to register with one another, said sections being capable of being turned one relatively to the other to bring the said apertures into or out of registry, an apertured cover adapted to receive a water-heater, and a casing inclosing the oven, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

SALLI MASCHKE.

Witnesses:

PEREJENIE VARNALS,
EUGEN COHN.