S. BERGSTEIN.

PORTABLE HEATER.

APPLICATION FILED DEC. 23, 1908.

960,064.

Patented May 31, 1910.

Fig. 1.

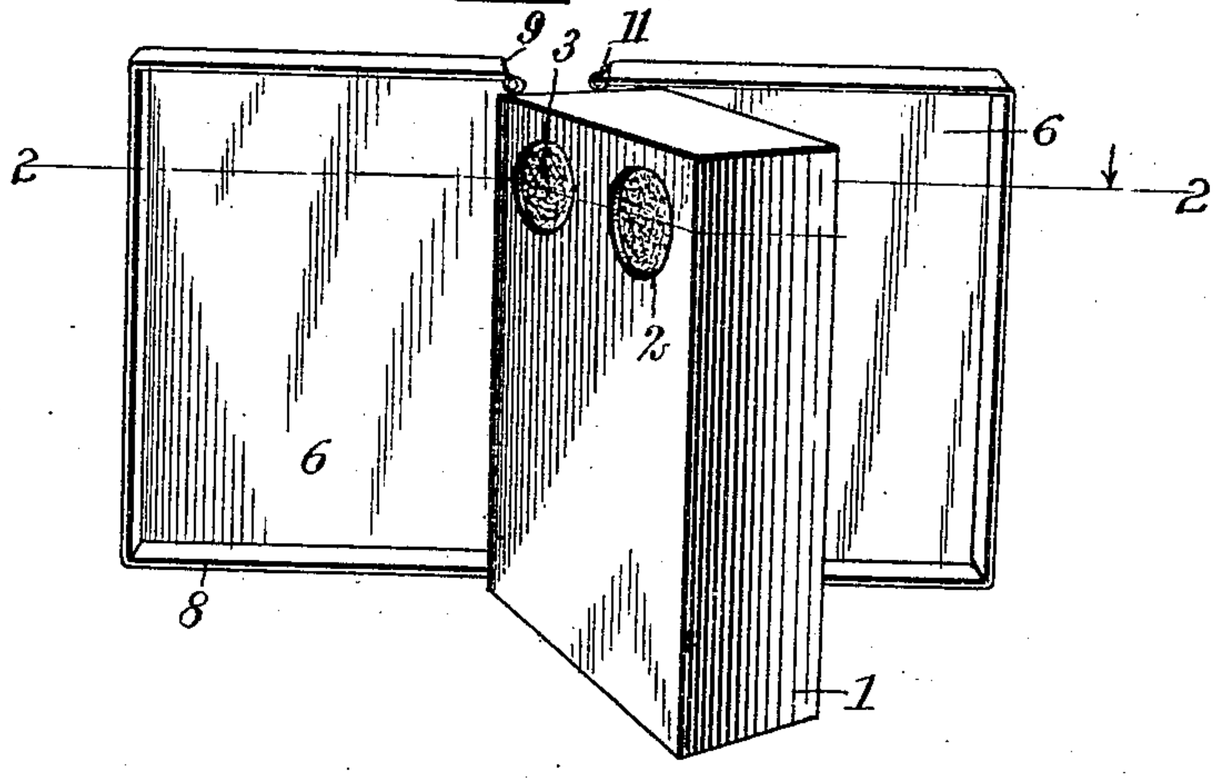


Fig. 3.

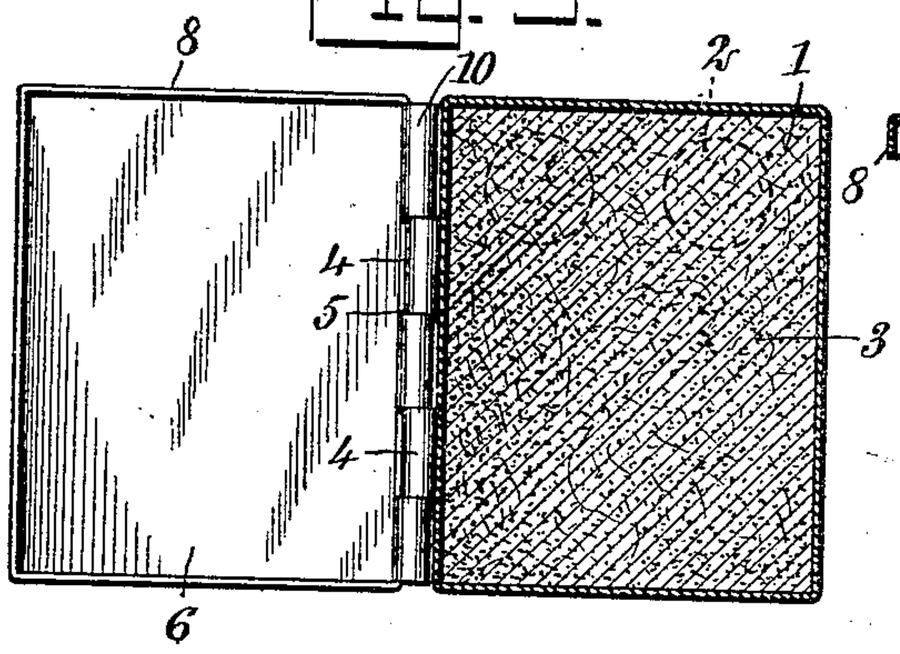


Fig. 2.

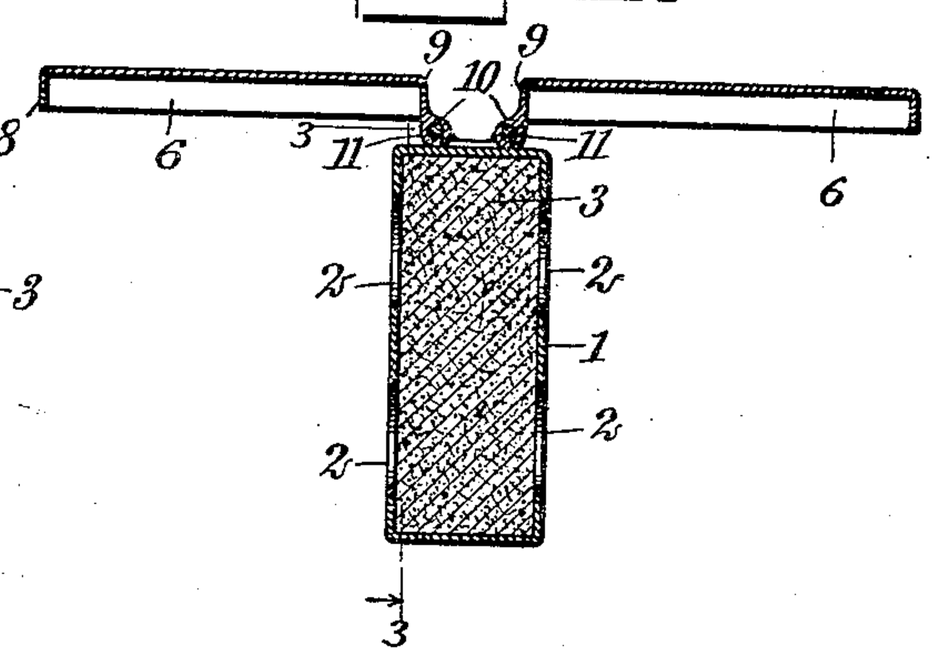
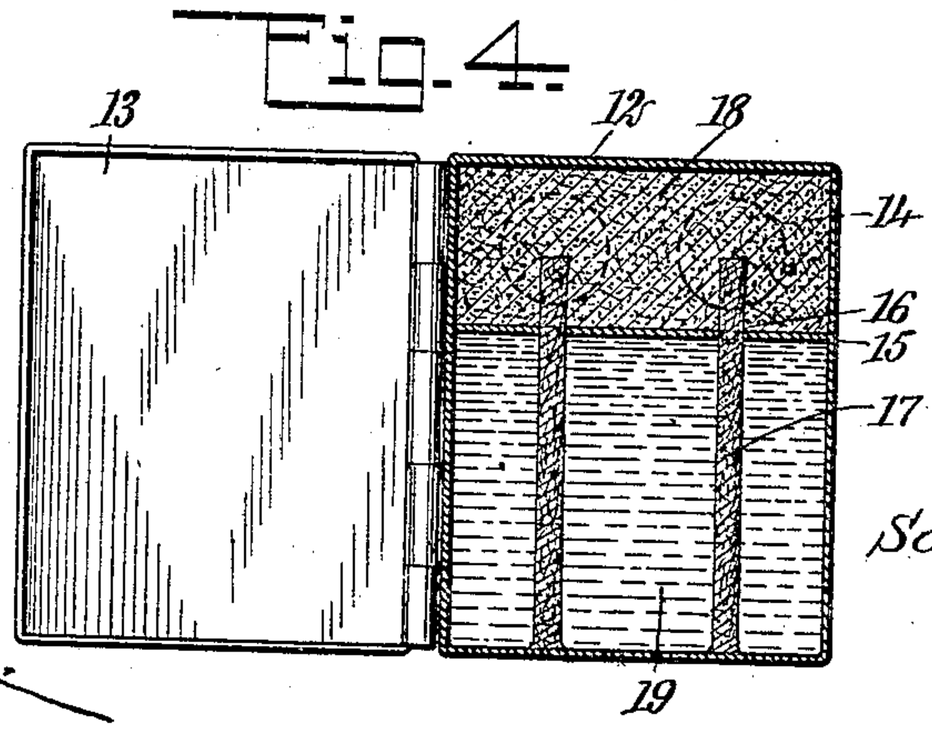


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

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PORTABLE HEATER.

960,064. Specification of Letters Patent. **Patented May 31, 1910.**

Application filed December 23, 1908. Serial No. 468,956.

To all whom it may concern:

Be it known that I, SAMUEL BERGSTEIN, a citizen of the United States, and a resident of Youngstown, in the county of Mahoning and State of Ohio, have invented a new and Improved Portable Heater, of which the following is a full, clear, and exact description.

This invention relates to portable heaters, and particularly to a heater which consists of a hollow body adapted to contain an absorbent material such as asbestos or the like, and provided with openings on either side thereof, at which a liquid fuel, such for example, as alcohol, held in the absorbent material can be ignited, and lids movably secured to one of the ends of the body and adapted to fit over the sides thereof.

The object of the invention is to provide a device of the class described, simple and serviceable in construction and inexpensive to manufacture, which is of a convenient size to be carried in the pocket of the user, and which is provided with two lids, the latter in combination with the body forming a stand on which an object to be heated can be positioned.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of an embodiment of my invention; Fig. 2 is a cross section on the line 2—2 of Fig. 1; Fig. 3 is a longitudinal section on the line 3—3 of Fig. 2; and Fig. 4 is a longitudinal section of a modified form of my device.

Before proceeding with a more detailed description of my invention, it should be understood that I provide a portable heater which, as before described, consists of a hollow body adapted to contain a liquid fuel and provided with openings at which the fuel can be ignited, and lids secured to the body and adapted to fit over the sides thereof to close the openings. When the device is open for use, the lids in combination with the top of the body, form a stand on which any object to be heated can be placed. The openings in the body are located at a point slightly below the top, so that the necessity of having brackets for supporting the object is entirely obviated. In the closed position, the alcohol is prevented from evaporating, as the lids form tight closures for the body openings. If desired, one side may be opened and the other left closed, thereby reducing the amount of heat. The interior of the body may be filled with any suitable absorbent material, such as asbestos, or a combination of asbestos and sandstone.

In the specific form shown in the drawings, I provide a hollow body 1, formed of any suitable metal and preferably rectangular in shape. Located on each side of the body and slightly below the top thereof is a plurality of openings 2. Arranged within the body is a suitable absorbent material 3, such as asbestos or the like, which serves to regulate the burning of any suitable liquid fuel that may be used with the device. Mounted at the rear of the body are hinge brackets 4 having their opposite ends 5 formed to constitute sleeves. I further provide lids 6 having rims 8. The back 9 of each lid is provided with extensions 10 bent to form sleeves. The lids are adapted to be pivotally arranged at the back of the body, so that the sleeves will register with the sleeves 5 of the body, so that hinge pins 11 may be passed through the registering openings to secure the lids movably in position.

In the modified form shown in Fig. 4, I have provided a hollow body 12, preferably rectangular in form, having lids 13 pivotally arranged on the back thereof and adapted in the closed position to fit over the sides. The body is provided with a plurality of openings 14. The body has its interior divided by means of a partition 15, the latter being provided with openings 16, through which wicks 17 extend. The upper portion of the body 12 receives any suitable absorbent material 18, such as asbestos or the like, while the lower portion acts as a reservoir to contain a liquid fuel 19, such as alcohol or the like, the wicks 17 serving to conduct the fuel to the absorbent material from the reservoir.

In operating the device, the lids are opened, so that they present a support on which an object can be placed, and the liquid fuel is ignited at the openings. In filling the device, one lid is closed and the liquid fuel is poured into the openings at the other side. The lids also, when open, brace the device at each side so that it can be positioned operatively.

It should be further understood that I do not limit myself to the specific form shown

in the drawings, as others equally advantageous may be employed without departing from the spirit or the scope of the invention.

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

1. A heater, comprising a hollow body, a partition within said body, whereby the lower portion of said body is formed to constitute a reservoir adapted to receive a liquid fuel, an opening in said partition, a wick adapted to be arranged within said reservoir and to project through the opening in said partition, an absorbent material located in the upper portion of said body, openings in each side of said body at which the liquid fuel held by said absorbent material can be ignited, and lids movably secured to said body and adapted to close said openings, said lids further serving as a support for mounting an object to be heated.

2. A heater comprising a hollow body for containing a liquid fuel, said body having a flat base whereby it may stand alone on the support and a closed flat top for receiving an object to be heated, and having side openings adjacent to the top for the emission of the products of combustion and lids hinged to the side edges of the hollow body for assisting in the support of the said body when open.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL BERGSTEIN.

Witnesses:
MABEL CROZIER,
LEO GUTHMAN.