

F. CHAPMAN.
PORTABLE STOVE.
APPLICATION FILED AUG. 25, 1919.

1,353,314.

Patented Sept. 21, 1920.

Fig. 1.

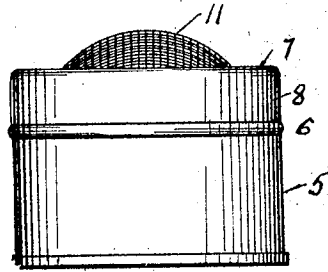


Fig. 2.

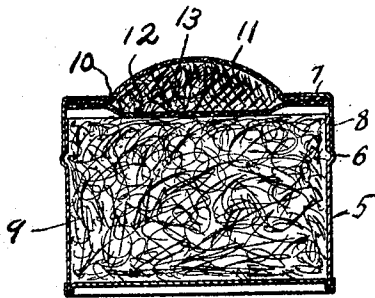
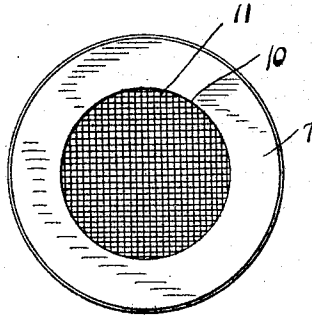


Fig. 3.

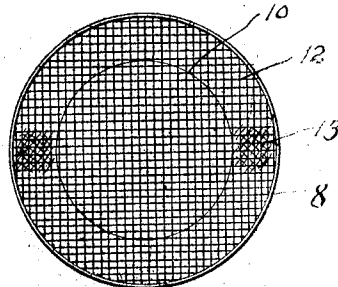


Fig. 4.

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PORTABLE STOVE.

1,353,314.

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To all whom it may concern:

Be it known that I, FRANK CHAPMAN, a citizen of the United States of America, residing at Providence, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Portable Stoves, of which the following is a specification.

This invention relates to heaters, and particularly to portable stoves of the type using alcohol or like fluid fuel, and the said invention has for its object the provision of means whereby a stove of this character can be manufactured at small cost, yet prove efficient and satisfactory in use.

A further object of this invention is to provide a stove of this character having top and body portions which are separable, the said top carrying the wick and its protecting means, and the body containing an absorbent material such as cotton waste, so that by the removal of the top the fuel may be poured into the body of the stove without liability of spilling. Where fuel is poured into the interior of the stove through the wick, there is more or less evaporation of the fuel if the wick is hot and the fuel is apt to spill by reason of the fact that the wick interferes with the passage of the fuel into the stove. As in this device the top and wick are removable, the filling process may be observed, and when the filler or waste material becomes saturated the delivery of fuel can be controlled.

With the foregoing and other objects in view, the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this specification wherein like characters denote corresponding parts in the several views and in which—

Figure 1 illustrates a view in elevation of the stove embodying the invention.
Fig. 2 illustrates top plan thereof.
Fig. 3 illustrates vertical section view.
Fig. 4 illustrates underneath plan view of the cover.

In these drawings 5 denotes the body of the stove, which may comprise a boxlike structure having an annular bead or shoulder 6 which acts as a support for the cover 7 when its flange 8 engages the said shoulder.

The body of the stove, or what might be termed the reservoir, is preferably filled with absorbent material 9, such as asbestos fiber or cotton waste, or any other absorbent which will hold the fuel and prevent splashing or spilling while being carried.

The cover 7 has a central aperture 10 through which the wick is exposed, and the wick comprises in its construction this embodiment of the invention, an upper layer 11 of wire gauze and a lower layer 12 of the same material, which layers 11 and 12 serve to confine the wick 13, which may consist in a bunch of absorbent material such as is contained in the reservoir. The upper layer 11 of wire gauze is convex and projects well above the upper surface of the cover and thus provides sufficient space for the wick, which is preferably relatively large so that it will hold a proper supply of fuel.

The lower layer 12 of wire gauze extends downwardly slightly from the under surface of the cover and is extended to bear against the contents of the reservoir so that the fuel will find its way to the wick by capillary attraction and insure a proper supply of fuel.

The wire gauze surface of 11 and 12 may be secured at different places to the entire surface of the cover by patches 14 of solder or other like securing elements, and the cover and wick may be manipulated in the manner stated for the purpose of giving access to the interior of the reservoir.

I claim—

A portable stove comprising a body having a filler of absorbent material, such body having an annular shoulder near its upper edge, a cover having a flange embracing the body near its upper edge, the edge of the flange engaging the said annular shoulder, the said cover having an aperture, a wick comprising an absorbent material and an upper and lower layer of wire gauze, the said wick projecting through the opening in the cover and being secured to the under side of the said cover.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK CHAPMAN.

Witnesses:

ERNEST V. HALLIGAN,
D. E. BEARSE.