June 28, 1927. 1,633,707

G. F. MILLER ET AL

CAMP STOVE

Filed May 17, 1924

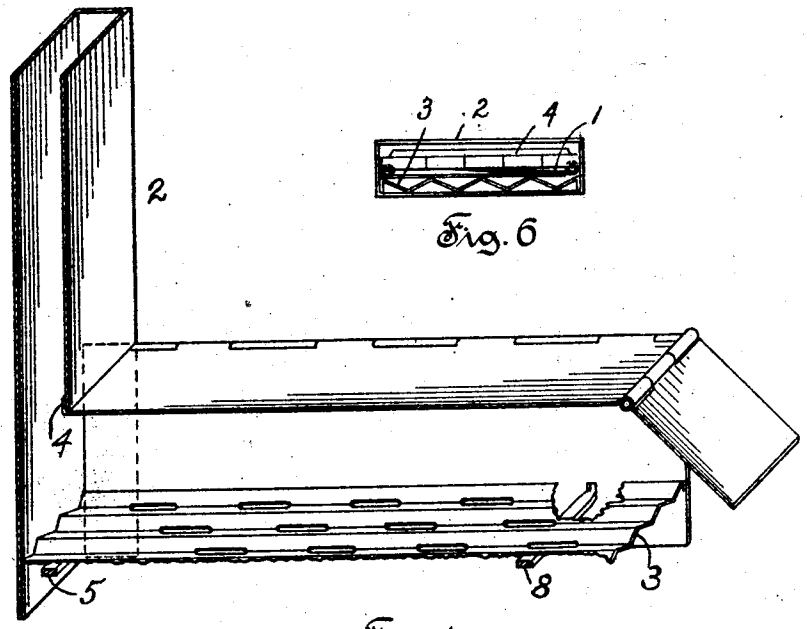


Fig. 1

Fig. 6

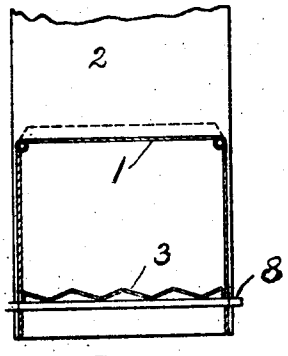


Fig. 2

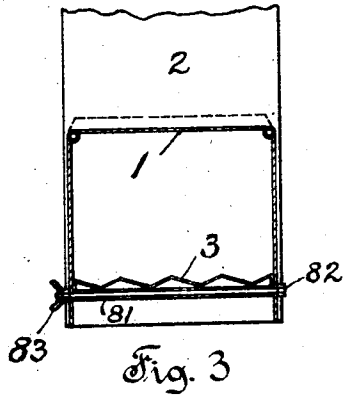


Fig. 3

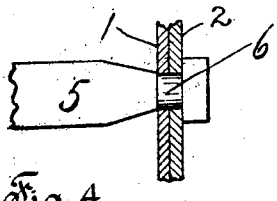


Fig. 4

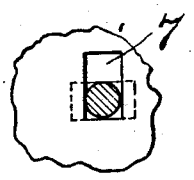


Fig. 5

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UNITED STATES PATENT OFFICE.

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CAMP STOVE.

Application filed May 17, 1924. Serial No. 713,910.

This invention relates to a portable camp stove of the knockdown type.

The object of the invention is to provide a convenient device for the purpose, especially one that consists of few parts, and when knocked down, may have its chimney serve as a container for the body and other parts thereof.

In the drawing forming a part of the specifications thereof and in which like reference characters represent the same or similar parts,

Fig. 1 is a perspective view in section on a longitudinal central plane, parts being broken away to more clearly show the detail construction.

Fig. 2 is a transverse cross sectional view at the front bolt looking towards the chimney.

Fig. 3 is a similar view of the stove using a modification of the holding means comprising a tube spacer, a plain bolt and a wing nut.

Fig. 4 is a detail horizontal sectional view of a fragment of the holding means inserted through the body and chimney portions shown in section.

Fig. 5 is a detail side view of the same parts with the holding means in section to show how it has been turned one quarter after insertion, to lock the parts in engagement.

Fig. 6 is an end view of the device knocked down and with the body portion and the grate inserted in the chimney portion.

Referring more particularly to the drawing, the camp stove in one embodiment is comprised of three principal parts, a body portion 1, a flat rigid chimney portion 2, and a grate 3. The body portion is made up of four parts, a top having sides hinged thereto at its side edges and a door hinged thereto at its front edge. This top is cut away at the rear and the edge 4, turned up. The chimney portion likewise has the front wider side cut away at the bottom so that the body portion is inserted in the lower end of the chimney with the edge 4 of the body interlockably engaging the lower front edge of the chimney. The top of the body portion is just wide enough to fit easily within the longer chimney width. These two parts are held in engagement by a bar 5, extending through the side walls of the chimney and body sides as shown in Fig. 4. This bar is oblong in section and is reduced near the ends to form necks 6, so that when the bar is turned as shown in Fig. 5, after insertion through oblong holes 7 in the chimney and body sides, the parts are locked in place. A second bar is similarly inserted through the side walls of the body portion near its front end in order to additionally space the side walls and also to serve with the first bar 5, as a support for the grate. The grate is corrugated and perforated as shown.

The front door is shorter vertically than the side walls so as to leave an inlet for air below the grate when the door is closed. The door may also be opened partially as shown, being propped open if necessary.

In the modification shown in Fig. 3, the holding means is comprised of a tube 81 of a length equal to the distance between the side walls of the body portion when set up; a plain bolt 82 extending through a side wall, the tube, and the other side wall, and a wing nut 83 screwed onto the bolt 82, to draw the sides of the body portion tightly against tube 81 and hold all the parts in place. Of course, where the holding means is located at the rear, the bolt will also pass through the chimney sides to lock it to the body. This modified holding means requires only round holes to be punched into the sheet metal instead of oblong holes in the modification first described.

In setting up the stove, the sides of the body portion are swung to vertical position and the rear end inserted in the cut away lower part of the chimney with the edge 4 overlapping the lower edge of the chimney front wall, as shown in Fig. 1. The bar 5 is then inserted through alined openings in the side walls of the two parts and given a quarter turn. The second bar 8 is inserted through the remaining holes in the side walls of the body portion and given a quarter turn. The grate is then put in place, resting on the bars 5, 8. The door at the front may be adjusted as desired.

When the parts are knocked down, the chimney may be used as a container for the remaining parts as shown clearly in Fig. 6 thus constituting a flat package.

While the invention has been disclosed in one particular form, it is not to be construed that it is limited to that form but that any modification thereof within the scope of the

claims, that might occur to one skilled in the art, is deemed to be included within the invention.

It is claimed and desired to secure by Letters Patent:

1. In a camp stove, a three-part hinged body portion, and a rigid chimney detachably coacting therewith of size permitting insertion therein of said body portion.

2. In a camp stove, a body portion, a chimney portion in interlocking engagement therewith, and separable means for holding said portions in engagement and comprising a grate-supporting means.

3. In a camp stove, a body portion, a chimney portion in interlocking engagement therewith, means for holding said portions in engagement, and a grate portion supported by said holding means.

4. In a camp stove, a body portion, a chimney portion in interlocking engagement therewith, holding means extending through the sides of said body portion, and a grate supported thereon, one of said holding means also extending through the sides of said chimney portion for holding said portions in engagement.

5. In a camp stove, a chimney portion having its front side cut away at the bottom, a body portion having its top cut away at the rear and its rear edge turned up, the two portions being interlockable at the cut-away parts by hooking the chimney portion over said upturned edge, and separable means for holding said portions in engagement.

6. In a camp stove, a chimney portion having its front side cut away at the bottom, a body portion having its top cut away at the rear and turned up at its edge, the two portions being interlockably engageable by lapping the rear end of the body portion within the bottom of the chimney portion with the turned-up edge engaging within the lower edge at the front side of said chimney portion, and a bar extending through said lapped parts of said portions for holding same in engagement.

7. In a camp stove, a body portion, a chimney portion in interlocking engagement therewith, and means for holding said portions in engagement, said body portion being foldable and insertible within said chimney portion when knocked down.

8. In a foldable camp stove comprising a top, side walls and one end wall, all adapted to be arranged in a flat package, a case of rectangular cross section in which said body may be inserted when arranged into a flat package, said case having a portion cut away to provide an opening registering with the open end of said body when set up whereby said case constitutes a flue for said body, the back wall of said flue constituting the other end of said stove, and releasable means for securing said case on the stove body when arranged as a flue for the latter.

9. In a foldable camp stove, comprising a top, side walls, and one end wall, all adapted to be arranged into a flat package, means for supporting the end wall of the body in set-up relation with the other parts of the body, a case of rectangular cross section in which said body may be inserted when arranged into a flat package, said case having a portion cut away to provide an opening registering with the open end of said body when set up whereby said case constitutes a flue for said body, the back wall of said flue constituting the other end of said stove, and releasable means for securing said case on the stove body when arranged as a flue for the latter.

10. In a foldable camp stove comprising a top, side walls and one end wall, all adapted to be arranged flatwise with the stove, and a case of rectangular cross section in which said body may be inserted when arranged into a flat package, said case having a portion cut away to provide an opening registering with the open end of said body when set up whereby said case constitutes a flue for said body, the back wall of said flue constituting the other end of said stove.

11. In a camp stove, a body portion, and a rigid chimney portion coacting therewith, said body portion being of knockdown construction and when knocked down insertible within said chimney portion to constitute a package.

12. In a camp stove, a body portion, and a flat rigid chimney portion engaging therewith, said body portion being of knockdown construction and when knocked down insertible within said chimney portion to constitute a flat package.

In testimony whereof, the signatures of the inventors are affixed hereto.

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