Aug. 22, 1933. W. W. WILKINSON 1,923,131

CAMP STOVE

Filed June 28, 1932

Fig. 1.

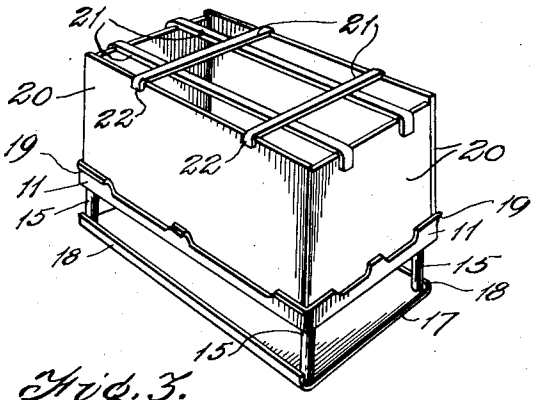


Fig. 2.

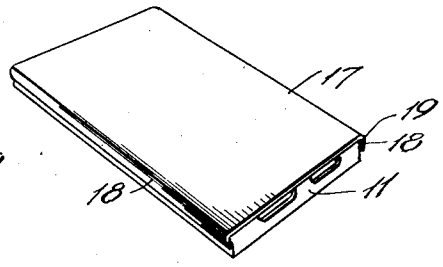


Fig. 3.

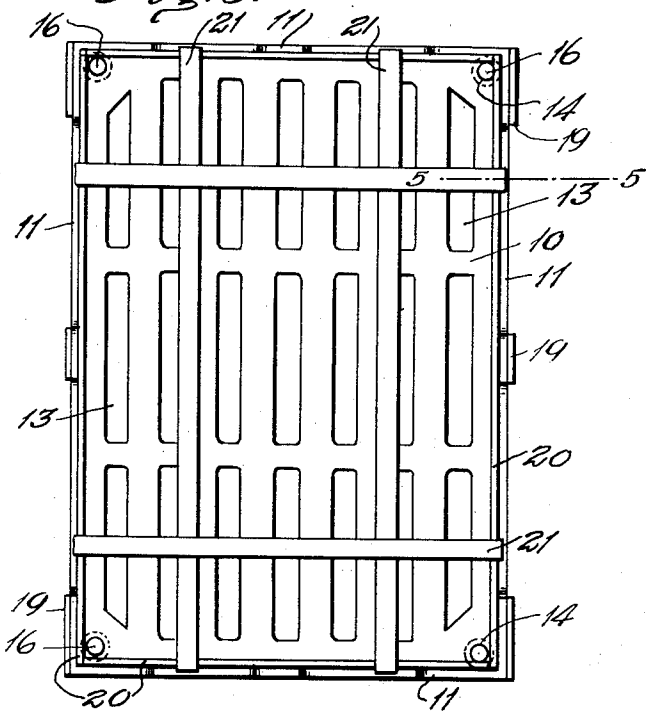


Fig. 5.

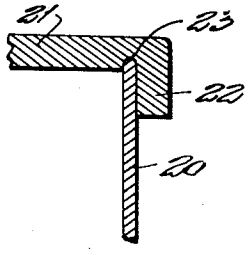


Fig. 6.

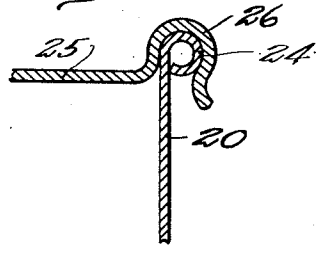
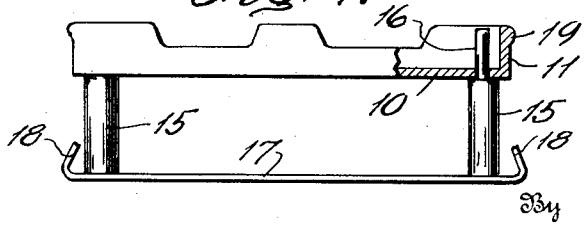


Fig. 4.



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UNITED STATES PATENT OFFICE

1,923,131

CAMP STOVE

Wilford W. Wilkinson, Cleveland, Ohio

Application June 28, 1932. Serial No. 619,797

8 Claims. (Cl. 126—9)

My invention relates to camp stoves and more particularly to a knockdown utility device for hunters, campers, travelers and others; and the object is to provide a simple device adapted for a variety of uses, to provide a device which can be quickly assembled and quickly knocked down, and quickly packed in a small package or assembled ready for use, and to provide a device which can be furnished at small cost. Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

In the accompanying drawing like characters of reference indicate like parts in the several views, and:

Figure 1 is a perspective view of the stove assembled.

Figure 2 is a perspective view of the device knocked down and packed.

Figure 3 is an enlarged plan view of the stove assembled.

Figure 4 is an end view of the device, as shown in Figure 3, partly in section.

Figure 5 is an enlarged detail section on the line 5—5 of Figure 3.

Figure 6 is a section similar to Figure 5 but showing a modification of the side holding means.

In the embodiment of the invention as here disclosed there is provided a fire box bottom 10 having upturned flanges 11 at its edge. The bottom 10 is provided with a series of slots 13 so that this bottom forms a species of grate. Also, adjacent each corner of the bottom there is provided a leg hole or socket 14. Legs 15 are provided to support the bottom and each leg has a reduced upper end 16 which projects upwardly through a respective hole or socket 14 and extends upwardly adjacent the flanges 11, each leg being shouldered at the junction of the body and extension so that the bottom rests on the leg shoulders. The bottom thus forms a shallow tray which, when the stove is packed for transportation, forms the lower part of a shallow box. An ash pan 17 is provided on which the legs rest when the stove is set up and this pan has inwardly inclined side edges 18 which, when the stove is packed, engage over ribs 19 formed on the outside of certain parts of the flanges 11.

Side walls 20 of sheet metal are provided and the lower corners of these side walls fit between the flanges 11 and extensions 16. The upper edges of opposite side walls, as shown in Figures 1 to 5, are connected by bars 21 which have down turned ends 22 engaging against the outer faces of the side walls. These bars 21 are also provided, adjacent the ends 22, with notches 23 which receive portions of the edges of the side walls as best seen in Figure 5. By this means the side walls are supported in vertical position on the bottom and are prevented from moving both inwardly and outwardly at their upper edges. Furthermore, the bars 21 form a grill on which the cooking utensils may be supported and, for broiling or toasting, the food itself may even be supported on this grill.

In the form shown in Figure 6 the side walls 20 are provided with beads 24 at their upper edges and the bars 21 are replaced by bars 25 which carry at their ends downwardly opening C-shaped clips engaging the beads as shown, the metal of the bars being bent upwardly, outwardly and downwardly at each end to C form.

In packing the device for transportation or storage the bars are removed from the fire box walls and these are then lifted off the slotted bottom. The legs are now removed from the bottom and placed therein with the sides and bars. Finally the ash pan is turned upside down and slid onto the bottom with its flanges engaging the ribs on the side flanges of the bottom. The ash pan thus forms a cover for the shallow tray-like bottom and all the parts are securely held together.

Obviously, the device may be used for cooking, as a stove for heating a tent and for heating water as well as for other purposes to which stoves are usually applied.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that minor changes may be made in the form and construction of the invention without departing from the material spirit thereof. It is not, therefore, desired to confine the invention to the exact form herein shown and described, but it is desired to include all such as properly come within the scope claimed.

Having thus described the invention, what is claimed as new, is:

1. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, and side walls removably fitted between said legs and flanges and positioned thereby.

2. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, and bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops.

3. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, and bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops, said bars having notches therein receiving the edges of said side walls to prevent inward collapse of said side walls.

4. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, and bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops, said bars having their ends formed to provide downwardly opening C-shaped notches and the upper edges of the side walls being beaded to fit the C-shaped notches.

5. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, an ash pan whereon said legs normally rest, upstanding and inwardly inclined flanges on opposite sides of the ash pan, and ribs on the outside of the upper portions of the bottom flanges wherewith the ash pan flanges are adapted to engage in packed position of the parts.

6. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops, an ash pan whereon said legs normally rest, upstanding and inwardly inclined flanges on opposite sides of the ashpan, and ribs on the outside of the upper portions of the bottom flanges wherewith the ashpan flanges are adapted to engage in packed position of the parts.

7. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops, said bars having notches therein receiving the edges of said side walls to prevent inward collapse of said side walls, an ash pan whereon said legs normally rest, upstanding and inwardly inclined flanges on opposite sides of the ashpan, and ribs on the outside of the upper portions of the bottom flanges wherewith the ashpan flanges are adapted to engage in packed position of the parts.

8. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, side walls removably fitted between said legs and flanges and positioned thereby, bars extending between the side walls at the tops thereof and having their ends arranged to prevent outward spreading of the side walls at their tops, said bars having their ends formed to provide downwardly opening C-shaped notches and the upper edges of the side walls being beaded to fit the C-shaped notches, an ash pan whereon said legs normally rest, upstanding and inwardly inclined flanges on opposite sides of the ashpan, and ribs on the outside of the upper portions of the bottom flanges wherewith the ashpan flanges are adapted to engage in packed position of the parts.

WILFORD W. WILKINSON.