No. 718,412. PATENTED JAN. 13, 1903.

F. BACH, JR. & E. CROTTEAU.

PORTABLE KNOCKDOWN OR FOLDING CAMP STOVE.

APPLICATION FILED AUG. 21, 1902.

NO MODEL.

Fig. 1

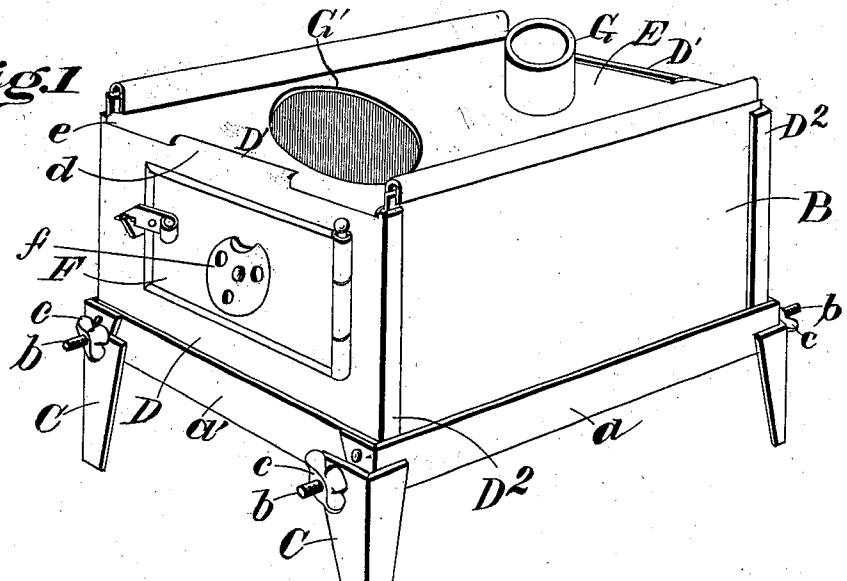


Fig. 2

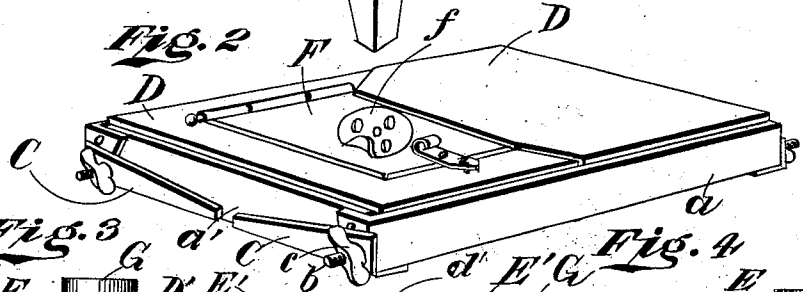


Fig. 3

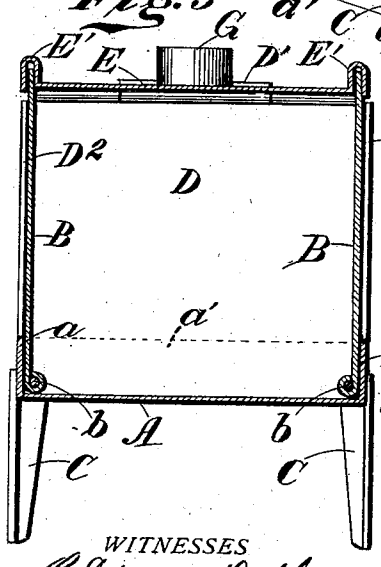
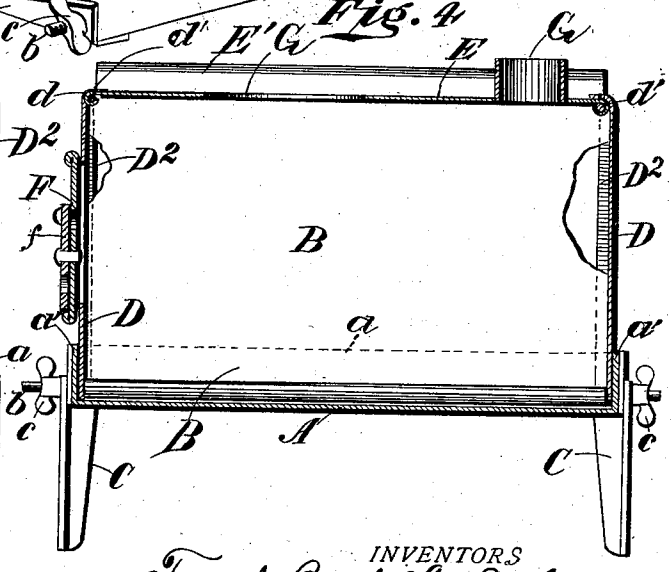


Fig. 4



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANK BACH, JR., AND ELI CROTTEAU, OF PHILLIPS, WISCONSIN.

PORTABLE KNOCKDOWN OR FOLDING CAMP-STOVE.

SPECIFICATION forming part of Letters Patent No. 718,412, dated January 13, 1903.

Application filed August 21, 1902. Serial No. 120,500. (No model.)

To all whom it may concern:

Be it known that we, FRANK BACH, Jr., and ELI CROTTEAU, of Phillips, Price county, Wisconsin, have invented certain new and useful Improvements in Portable Knockdown or Folding Camp-Stoves; and we hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention is an improvement in portable knockdown stoves especially designed for use as camp-stoves or for army use and wherever it is desired to have a stove which will be light, can be folded into small compass, and easily transported.

The invention therefore consists in the novel construction of the stove illustrated in the drawings and which we will now describe with reference thereto, the essential features of the invention being summarized in the claims following the description.

In said drawings, Figure 1 is a perspective view of the complete stove opened ready for use. Fig. 2 is a similar view thereof folded. Fig. 3 is a transverse section, and Fig. 4 a longitudinal section.

The stove is preferably made of sheet metal. The base A is provided with upstanding side flanges *a* and end flanges *a'*, which are suitably connected at the corners. The sides B are of such size, preferably, that they can lie or fold upon the bottom plate within the flanges thereof and are hinged to the base respectively adjacent to the inner sides of flanges *a* by means of pintles or rods *b*, which project through openings in the end flanges *a'*, as shown. The side flanges *a* serve to arrest the sides B when raised in a vertical position. On the projecting ends of pintles *b* are pivoted the legs C, which are preferably angular in cross-section, so that when swung to vertical position they will fit and brace themselves against the corners of base and when turned to a horizontal position will lie close against the ends of bottom plate, as shown. The pintles *b* are preferably provided with thumb or crank nuts *c*, by which the legs C may be bound in either position.

The end plates D D' are hinged to the ends of the top plate E by any suitable hinges, preferably by forming eyes *e d* on the top and ends transfixed by wire rods *d'*. The end plates have a right-angled flange D' at top adapted to bind against the top plate when the ends are in a vertical position, and the end plates have side flanges D^2, adapted to embrace the end edges of the side plates B, as shown. In one end plate is an opening closed by a door F, hinged to the end plate, as shown, and provided with a damper *f*. Through this door fuel is fed to the stove when in use.

The top plate E has inverted-U-shaped flanges E' on its sides, which are adapted to fit over the upper edges of the side plates B when the stove is unfolded, thus making a close joint therewith and serving, in connection with the flanges *a* and end-plate flanges D^2, to keep the stove-body substantially rigid when unfolded without requiring any nuts or screws to hold same together. The top plate E has a short collar G for attachment of a pipe-section, if desired, and a hole G' for a kettle or other utensil. Larger stoves could be made with more holes.

When the stove is to be folded for transportation or packing, the top plate is lifted off the side plates, disengaging flanges E' therefrom. Then the side plates B can be folded into the base one upon the other. Then the end plates D are folded under the top plate E and the top plate inverted and placed within the flanges of base-plate and the legs folded under the base-plate, all as shown in Fig. 2, making a very compact package. A number of small cooking utensils, &c., can be placed in the space between the top and bottom plates, if desired, when the stove is packed or folded.

The stove thus constructed is simple, light, compact when folded, and easily set up or taken down, and its utility will be readily appreciated by soldiers, prospectors, and others who wish a light portable knockdown camp-stove.

Having thus described our invention, what we therefore claim as new, and desire to secure by Letters Patent thereon, is—

1. A portable stove comprising a base-plate

provided with upstanding side and end flanges, side and end plates, and top plate, said top plate having inverted-U flanges on its sides adapted to engage the upper ends of side plates, all substantially as described.

2. The combination in a portable knockdown stove of a base-plate provided with side and end flanges, side plates hinged to the base-plate, a top plate having flanged sides adapted to engage the top edges of the side plates, and end plates attached to the ends of top plate and having flanges adapted to engage the ends of the side plates, all substantially as described.

3. The herein-described portable knockdown stove, comprising a flanged base-plate, side plates hinged thereto, a top plate having inverted-U flanges on its sides adapted to engage the top edges of the side plates, and end plates hinged to the ends of the top plate and provided with flanges, all substantially as and for the purpose set forth.

4. In a portable knockdown stove, the combination of base-plate A having upstanding side and end flanges a, a', sides B, B, hinged to the base-plate, pivoted legs C so constructed that when in a vertical position they will brace themselves against the corners of the base; end plates D, D, and top plate E, said end plates and top plate being hinged together, all substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

FRANK BACH, JR.
ELI CROTTEAU.

In presence of—
JULIUS KOEHLER,
ALEX. RASMUSSEN.