W. A. TAIT AND R. T. GILES.

FOLDING CAMP STOVE.

APPLICATION FILED NOV. 10, 1921.

1,438,345. Patented Dec. 12, 1922.

2 SHEETS—SHEET 1.

Fig. 2

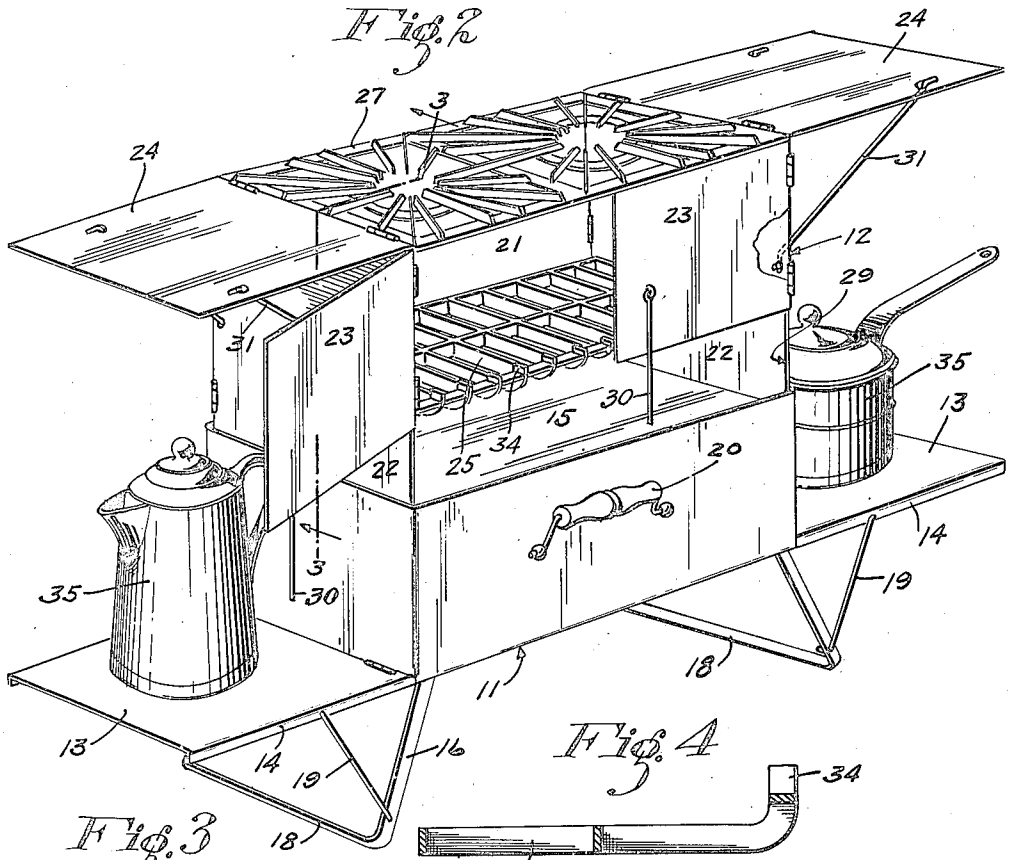


Fig. 4

Fig. 3

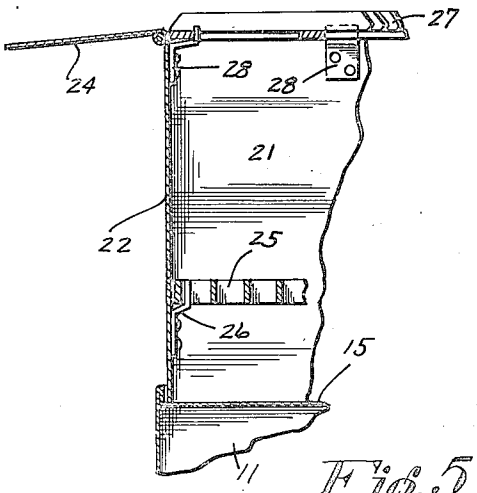


Fig. 1

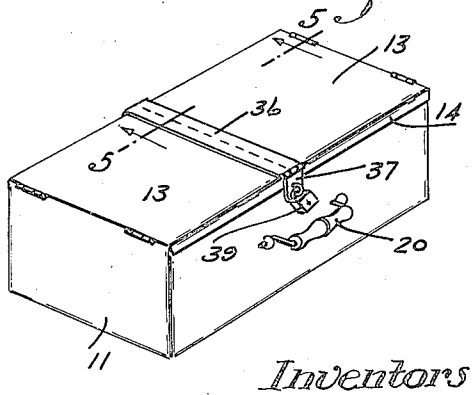


Fig. 5



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2 SHEETS—SHEET 2.

Fig. 6

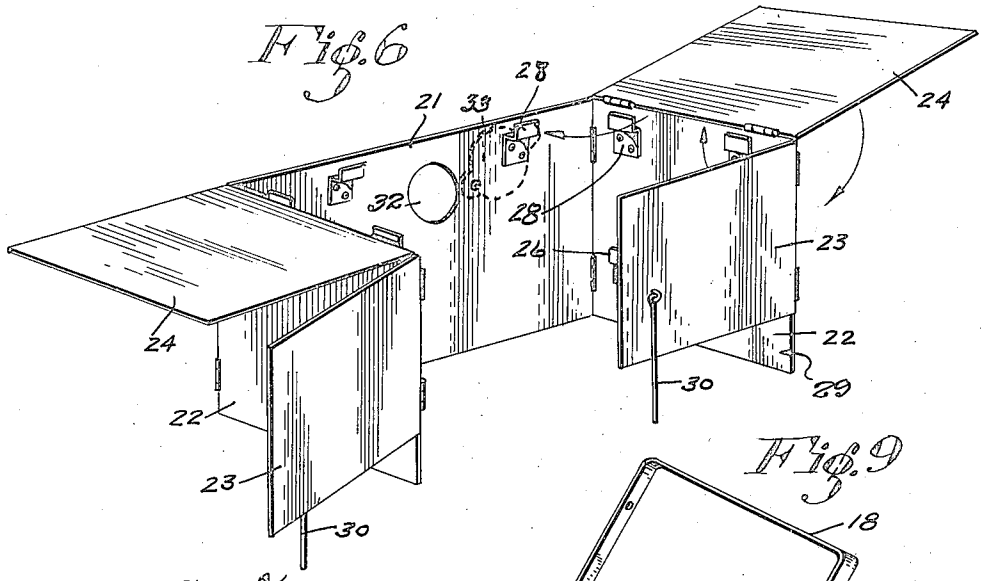


Fig. 9

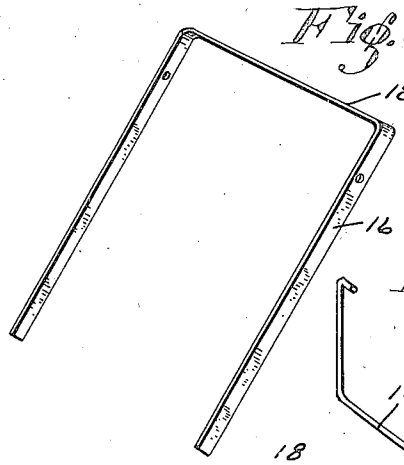


Fig. 7

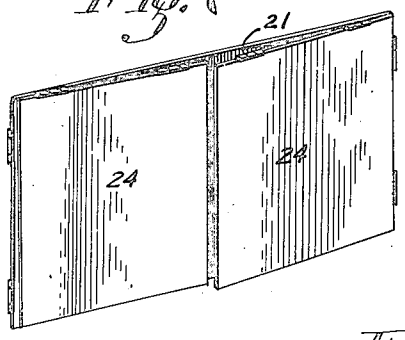


Fig. 10

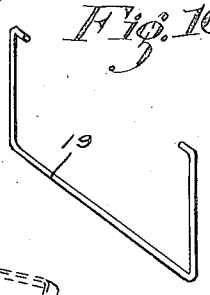
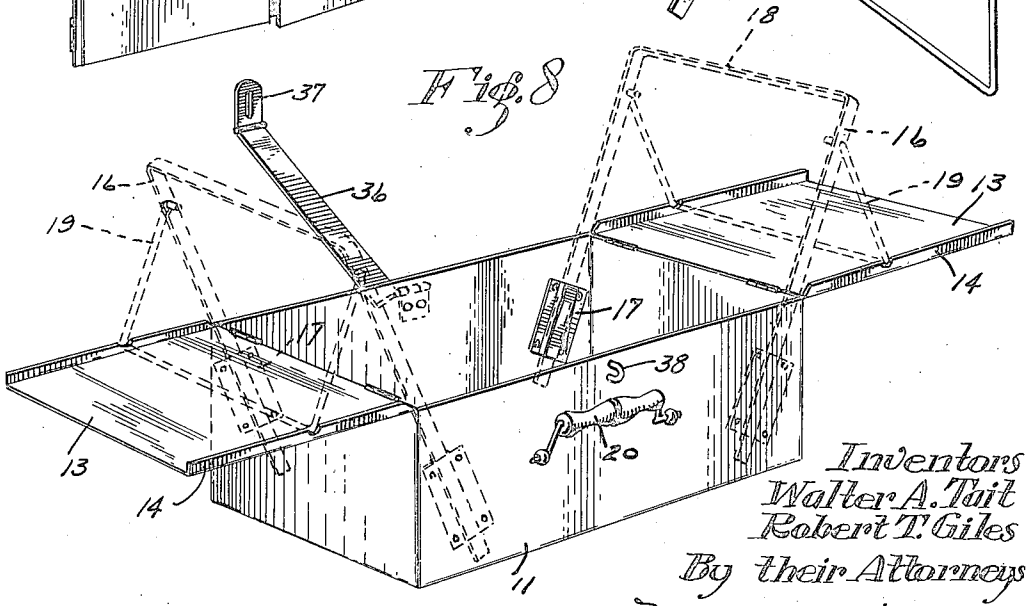


Fig. 8



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UNITED STATES PATENT OFFICE.

WALTER AUSTIN TAIT AND ROBERT TAIT GILES, OF CHICAGO, ILLINOIS.

FOLDING CAMP STOVE.

Application filed November 10, 1921. Serial No. 514,238.

To all whom it may concern:

Be it known that we, WALTER AUSTIN TAIT and ROBERT TAIT GILES, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Camp Stoves; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to stoves, more specifically to folding camp stoves, and has for its object to improve the same in the several particulars hereinafter noted.

To the above ends, the invention consists of the novel devices and combinations of devices hereinafter described and defined in the claims.

In the accompanying drawings, which illustrate the invention, like characters indicate like parts throughout the several views.

Referring to the drawings:—

Fig. 1 is a perspective view of the stove folded;

Fig. 2 is a perspective view of the stove set up, ready for use;

Fig. 3 is a longitudinal section taken on the line 3—3 of Fig. 2;

Fig. 4 is a sectional view of the grate;

Fig. 5 is a view in longitudinal section, taken on the line 5—5 of Fig. 1, on an enlarged scale;

Fig. 6 is a perspective view of the top section of the stove;

Fig. 7 is a perspective view showing the top section of the stove folded;

Fig. 8 is a perspective view of the base section of the stove turned upside down to afford a receptacle, with its legs and braces indicated by means of broken lines;

Fig. 9 is a perspective view of one of the leg brackets for the base section; and

Fig. 10 is a perspective view of one of the cover sections.

The improved folding stove, when set up, includes a base section 11 and a folding top section 12, the former of which is in the form of a box-like receptacle having a depressed or inset bottom and oppositely hinged cover sections 13 provided, on their longitudinal edges, with reinforcing flanges 14 adapted to embrace the sides of said receptacle. When the section 11 is inverted and used as a base, the depressed bottom thereof affords an ash pit 15 and the hinged cover sections 13 are turned outward to afford a pair of shelves.

A pair of U-shaped leg brackets 16 is provided for supporting the section 11 in an inverted position and have their free ends removably held in keeper brackets 17 secured to the inner faces of the sides of said section. The keeper brackets 17 hold the leg brackets in spread relation with their transverse portions 18 resting on the ground. To support the cover sections 13 in out-turned positions to afford shelves, as shown in Fig. 2, there are provided, U-shaped braces 19. The free ends of the braces are bent laterally and sprung into holes in the upright portions of the leg brackets 16 and the flanges 14 are notched to receive the transverse portions of said braces. A carrying handle 20 is secured to the front side of the section 11.

The top section 12 of the stove is removably supported on the base 11 and comprises a back 21, ends 22 hinged to the outer edges of said back, a pair of doors 23 hinged to the front edges of said ends and a pair of shelves 24 hinged to the upper edges of the ends 22. A grate 25 is removably supported within the top section 12 above the ash pit 15 on keeper brackets 26, and two integrally formed grills 27 are also removably supported within said top section on keeper brackets 28. The brackets 26 and 28 are secured to the back 21 and ends 22, and the lower edge portions of said back and ends extend within the ash pit 15 and are firmly held in position against outward movement by the back and end walls thereof.

The grate 25 and grills 27 securely hold the ends 22 at right angles to the back 21 and against folding movement on their hinges. It will be noted that the lower edges of the doors 23 terminate above the lower edge portions of the back 21 and ends 22 so as to swing over the front wall of the ash pit 15, and also to afford thereunder a draft passageway 29 below the grate 25. Flexibly attached to each door 23 is a rod-like handle 30. The shelves 24 are releasably supported in horizontal out-turned positions from the ends 22, by oblique brace rods 31, detachably connected to said shelves and ends by offsetting their ends to afford shoulders and inserting the offsetting portions thereof through holes in the shelves 24 and ends 22.

In the back 21, just below the grills 27, is a draft opening 32 which may be controlled by a swinging damper 33 pivoted to said back. If desired, a stove pipe section may be fitted into the draft opening 32. The back 21 and ends 22 hold fuel and coal on the grate 25 at the respective edges thereof, and to hold the fuel and coal on the grate 25, at the front thereof, the front edge portions of said grate is turned upward at 34. (See Fig. 4).

The entire stove is made of metal of sufficient strength to keep its shape under the action of the heat produced therein. The stove may be made in different sizes to support any desired number of cooking utensils over the fire. Shelves 13 and 24 afford convenient places to support cooking utensils 35, as shown in Fig. 2. As the shelves 24 are in substantially the same plane as the top of the grill 27, cooking utensils may be very easily shifted from the grills to the shelves or from the shelves to the grills. If it is not desirable to cook over an open flame, the brace rod 31 may be removed and the shelf 24 folded onto the grill 27. By means of the doors 23 and damper 33, the fire may be very easily controlled. The leg brackets 16 support the stove at a convenient height so that it is easy to work over.

To fold the stove, the top section 12 is first lifted from the base section 11, and the grate 25 and grills 27 removed from said top section. The said top section 12 is then folded, as shown in Fig. 7, after the brace rods 31 have been detached therefrom. The base section 11 is then inverted and the leg brackets 16 and braces 19 removed therefrom. Next, the folded top section 12, grate 25, grills 27, leg brackets 16 and braces 19 and 31, packed in the section 11, which affords a container therefor. Cooking utensils, knives, forks and the like, may also be packed in the section 11. The cover sections 13 are then closed, as shown in Fig. 1, and locked by a bar 36 hinged to the back of the section 11 for folding movement over the joint between said cover sections. The free end of the bar 36 is provided with a hasp 37 arranged to interlock with a staple 38 secured to the front of the section 11 and adapted to receive a pad-lock 39, as shown in Fig. 1. When the stove is thus folded, the same takes up very little space and may be easily stored within an automobile or on the running board thereof.

The above described folding camp stove may be very quickly set up or taken down and packed within the section 11.

What we claim is:—

1. A folding camp stove comprising a back member, end members hinged to the back member for folding movement thereon, doors hinged to the end members for folding movement thereon, and a grill removably supported from said back and end members and arranged to hold the same in an open position and permit opening and closing movements of the doors.

2. A folding camp stove comprising a back member, end members hinged to the back member for folding movement thereon, doors hinged to the end members for folding movements thereon, a grill removably supported from said back and end members and arranged to hold the same in an open position and permit opening and closing movements of the doors, and hinged cover sections adapted to be folded onto the grill or onto the back and end members.

3. A folding camp stove comprising a back member, end members hinged to the back member for folding movement thereon, doors hinged to the end members for folding movement thereon, a grill removably supported from said back and end members and arranged to hold the same in an open position and permit opening and closing movements of the doors, and braces for supporting the hinged cover sections in out-turned positions to afford shelves.

4. A folding camp stove comprising a box-like cover-equipped receptacle having an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, and a grate-equipped top section adapted to be supported on said base over the ash pit or stored in said receptacle.

5. A folding camp stove comprising a box-like cover-equipped receptacle having an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, a grate-equipped top section removably supported on said base over the ash pit, and movable legs for supporting said receptacle in an inverted position, said grate-equipped top section and legs being adapted to be stored in said receptacle.

6. A folding camp stove comprising a box-like cover-equipped receptacle having an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, a grate-equipped top section removably supporting said receptacle in an inverted position, said grate-equipped top section and legs being adapted to be stored in said receptacle, and means for supporting the cover of the receptacle in an out-turned position to afford a shelf.

7. A folding camp stove comprising a box-like receptacle, having hinged cover sections and an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, a grate-

equipped top section removably supported on the receptacle over the ash pit, movable legs supporting said receptacle in an inverted position, and braces for supporting said cover sections from said legs in out-turned positions to afford shelves, said grate-equipped top sections, legs and braces being adapted to be stored in said receptacle.

8. A folding camp stove comprising a box-like cover-equipped receptacle having an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, and a folding top section removably supported in said ash pit and held by the walls thereof against outward movement and adapted to be folded and stored in said receptacle.

9. A folding camp stove comprising a box-like cover-equipped receptacle having an inset bottom, said receptacle being adapted to be inverted to afford a base section having in its top an ash pit formed by said inset bottom, a folding top section removably supported in said ash pit and held by the walls thereof against outward movement and adapted to be folded and stored in said receptacle, and a grate removably supported from the top section and arranged to hold the same in an open position in the ash pit and against the walls thereof.

10. A folding camp stove comprising a box-like receptacle having oppositely hinged cover sections, a top section removably supported on the receptacle and adapted to be stored therein, a metal strap hinged at one end to the receptacle and adapted to be extended longitudinally over the joint between said cover sections when closed, and a hasp for securing the other end of the strap to the receptacle.

11. A folding camp stove comprising a box-like receptacle having oppositely hinged cover sections, a top section removably supported on the receptacle and adapted to be stored therein, a metal strap hinged at one end to the receptacle and adapted to be extended longitudinally over the joint between the cover sections when closed, a hasp for securing the other end of the strap to the receptacle, and a carrying handle attached to the receptacle.

In testimony whereof we affix our signatures.

WALTER AUSTIN TAIT.
ROBERT TAIT GILES.