

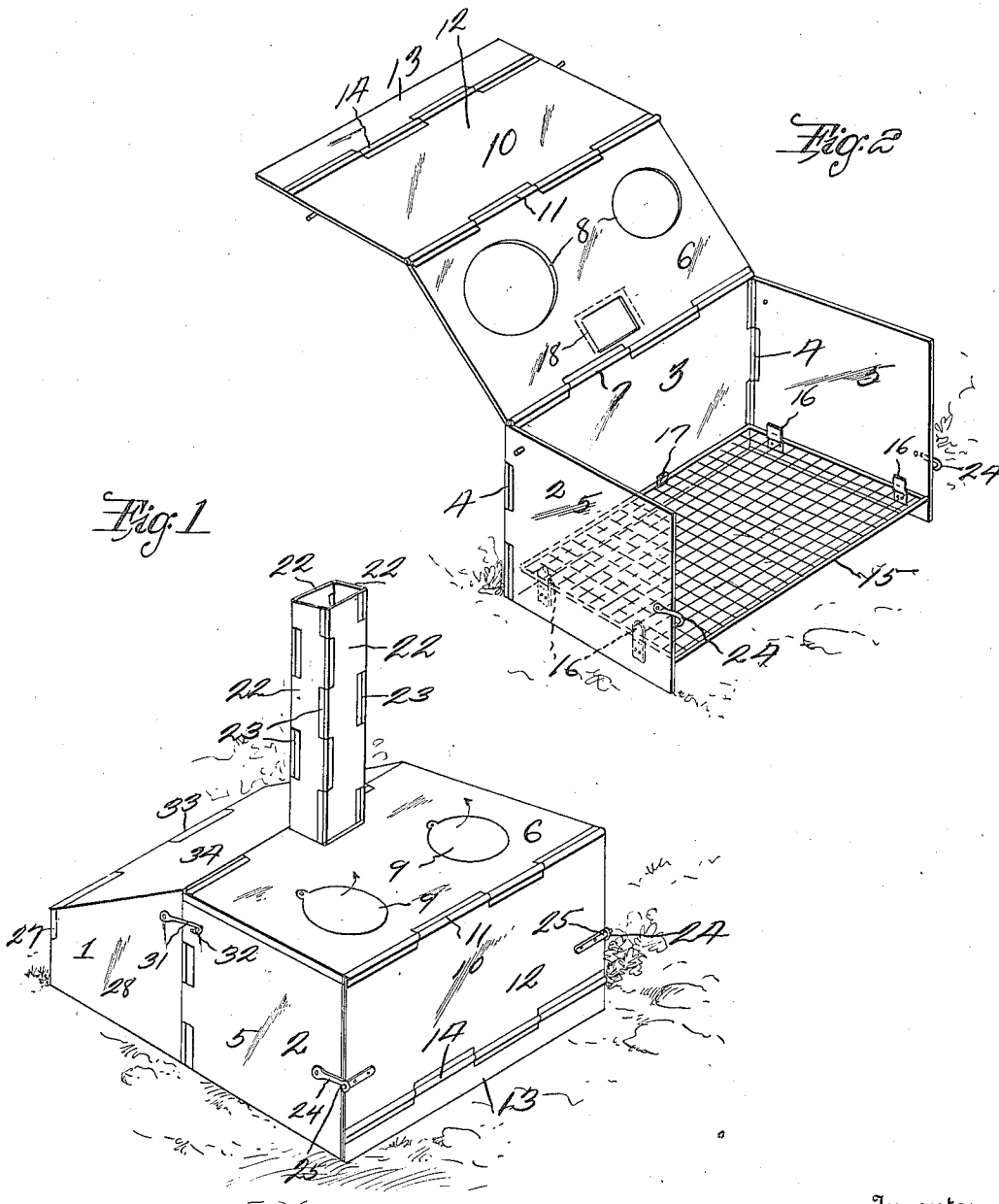
H. W. TAYLOR.
COLLAPSIBLE STOVE.

APPLICATION FILED APR. 29, 1920. RENEWED JUNE 24, 1921.

1,404,808.

Patented Jan. 31, 1922.

3 SHEETS—SHEET 1.



Inventor

H. W. Taylor:

R. Swift

By

his Attorney

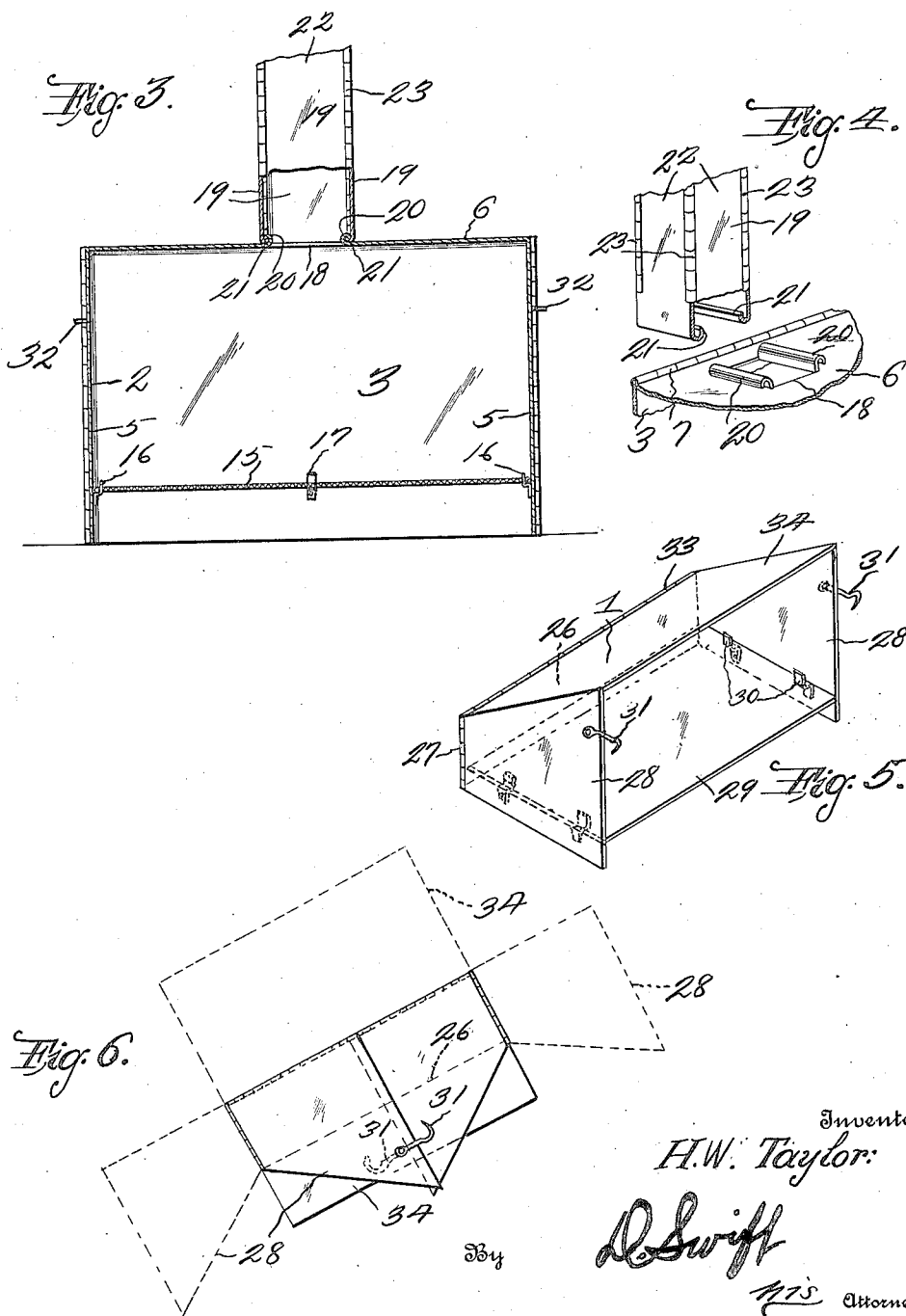
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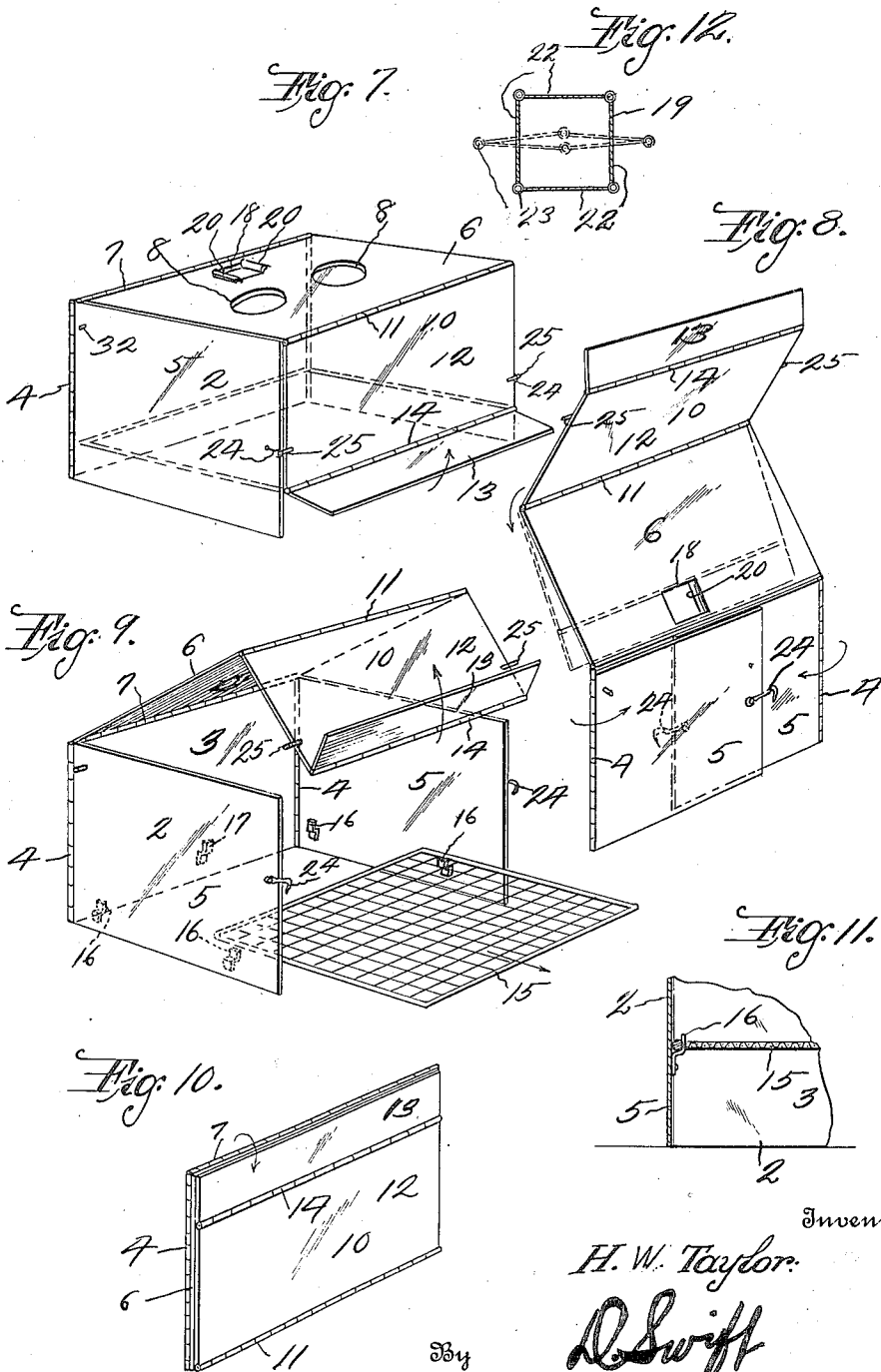
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UNITED STATES PATENT OFFICE.

HERMAN WALTER TAYLOR, OF ATHENS, PENNSYLVANIA.

COLLAPSIBLE STOVE.

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Specification of Letters Patent.

Patented Jan. 31, 1922.

Application filed April 29, 1920, Serial No. 377,573. Renewed June 24, 1921. Serial No. 480,191.

To all whom it may concern:

Be it known that I, HERMAN WALTER TAYLOR, a citizen of the United States, residing at Athens, in the county of Bradford, State of Pennsylvania, have invented a new and useful Collapsible Stove; and I 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.

The invention relates to collapsible stoves and has for its object to provide a device of this character which may be entirely collapsed so that it is particularly adapted for use of campers, tourists, hunters, etc. Also to construct the stove so that proper drafts are provided thereby allowing a fire to be easily built and maintained no matter whether the fuel is wood or charcoal or inflammable materials.

A further object is to provide a collapsible stove pipe which may be easily and quickly attached to the top of the stove.

A further object is to provide a collapsible warming oven which may be attached to one wall of the stove so that articles may be kept warm while other articles are being cooked.

A further object is to so proportion the members forming the walls of the stove so that they may be folded upon each other in such a manner as to form a compact bundle so that it may be easily transported from place to place.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawings, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:—

Figure 1 is a perspective view of the stove showing the collapsible oven and collapsible stove pipe attached thereto.

Figure 2 is a perspective view of the oven, showing the stack removed therefrom and also the oven detached, and showing the parts in the positions they assume during one of the folding operations.

Figure 3 is a vertical longitudinal sectional view through the collapsible stove and the lower portion of the smoke stack.

Figure 4 is a detail perspective view of a

portion of the smoke stack and a portion of the stove top showing the means for securing the smoke stack to the stove top.

Figure 5 is a perspective view of the warming oven showing the same detached.

Figure 6 is a view of the oven collapsed.

Figure 7 is a perspective view of the stove with the oven detached.

Figure 8 is a perspective view showing the sides of the oven folded upon each other and the front in position to be folded upon the top so that the top and front may be folded against the rear face of the rear wall.

Figure 9 is a perspective view of the stove showing the position of the parts when the grate is being placed in position or removed from the stove.

Figure 10 is a view showing the oven entirely collapsed.

Figure 11 is a detail sectional view of a portion of the stove showing the supporting means for the grate.

Figure 12 is a detail sectional view through the collapsible smoke stack showing in dotted lines its collapsed position.

Referring to the drawings, the numeral 1 designates the oven section and 2 the stove section. The stove section 2 comprises the rear wall 3 to the ends of which are hingedly connected as at 4 the side walls 5. The top 6 of the stove is hingedly connected as at 7 to the upper horizontal edge of the back 3 and forms a top for the stove, which top is provided with cooking openings 8 which are normally closed by means of pivoted lids 9. A front wall 10 is pivoted as at 11 to the front end of the top 6 and is formed in two sections 12 and 13, the section 13 being hingedly connected to the lower edge of the section 12 as at 14 and forms means whereby a draft may be created so as to assure the proper combustion of the fuel which is disposed on a grate 15. The grate 15 is supported by means of brackets 16 carried by the side walls 5 and the bracket 17 carried by the rear wall 3. The top 6 is provided with an opening 18 through which the products of combustion pass to a collapsible chimney 19. Opening 18 is provided with upwardly extending flanges 20 which are parallel to each other and are adapted to receive the flanges 21 carried by opposite sides of the smoke stack 19, thereby providing a detachable smoke stack which may be easily and quickly applied and one wherein the es-

cape of the products of combustion around the top opening 18 is prevented. The stack 19 is formed from four sections 22 which are hingedly connected together as at 23 so that the same can be collapsed and flattened for storage and transportation purposes. The stove pipe 19 is held in extended position when in use by the interengaging flanges 20 and 21, it being understood that extensions to the smoke stack may be provided if so desired. The sides 5 are provided with hooks 24 which engage over the lugs 25 carried by the section 12 of the front 10, thereby securely holding the front in position and also so holding the front that the pivoted section 13 may be raised to allow an upward draft through the grate to the smoke stack 22.

When it is desired to collapse the stove section 2 the smoke stack is removed from the top 6, the hooks 24 disengaged from the lugs 25, then the front is folded upwardly, the sides 5 folded inwardly to the position shown in Figure 8. The front 10 as a whole is folded onto the top of the top 6 and the top 6 folded rearwardly into engagement with the back surface of the back wall 3, as shown in Figure 8. Thus it will be seen that the stove section 2 may be entirely collapsed and the stove pipe 19 also collapsed.

The oven section 1 comprises the rear wall 26 which has hingedly connected as at 27 side walls 28, which side walls are held to their position when in use by means of the bottom 29 supported by brackets 30, carried by the side walls. The oven as a whole is connected to the stove sections 6 by means of hooks 31 which engage lugs 32 carried by the sides 5 of the stove. The rear wall 26 of the oven 1 has hingedly connected thereto as at 33 a cover 34, which cover may be raised as desired to place articles for warming in the warming oven and to remove the same. When it is desired to collapse the oven section the oven is detached, the bottom 29 removed and then the oven if so desired may be flattened out as shown in Figure 6. The first operation of folding is to fold the sides 28 onto the inner face of the back wall

26, then the top 34 is folded against the outer face of the back wall 26 as shown in Figure 6. It will be seen that the oven is completely collapsed and that the oven may be while in its collapsed condition stacked on the stove which has previously been collapsed and the grate 15 of the stove, also the bottom 29 of the oven may be disposed in the same compact package. By providing the collapsible smoke stack, it will be seen that the smoke stack may be collapsed and also put in the same package.

From the above it will be seen that a camping stove is provided, which is particularly adapted for use by campers, trappers, and others and that the same is so constructed that it may be collapsed into a small compass and transported from place to place.

The invention having been set forth what is claimed as new and useful is:—

A collapsible stove comprising a back wall, side members hingedly connected to the ends of the back wall, a stove cover hingedly connected to the upper horizontal edge of the back wall, a front wall hingedly connected to the front edge of the stove cover, said front wall being formed in two hingedly connected sections, the lower hingedly connected sections forming means for admitting air to the stove adjacent its bottom, means carried by the side walls and rear walls and interlocking with a grate, said grate forming means for maintaining the stove in its extended position, a rectangular shaped collapsible stove pipe provided with flanges, a stove pipe opening in the top of the stove having flanges adjacent opposite edges thereof for the reception of the collapsible stove pipe flanges and means for securing the front walls of the stove to the side walls thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMAN WALTER TAYLOR.

Witnesses:

W. T. PAGE,
C. F. THURSTON.