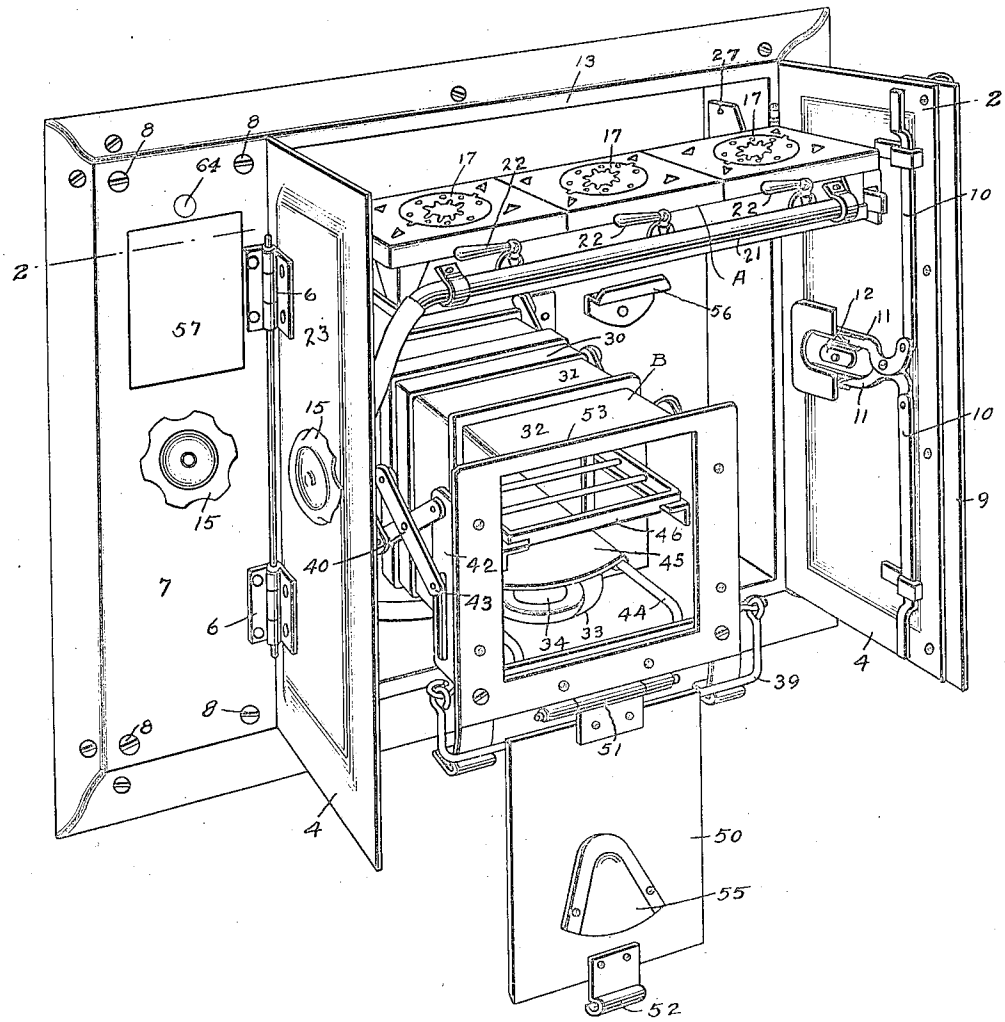
May 22, 1923. 1,456,474

M. SUSSMAN

FOLDING COOK STOVE

Filed May 4, 1922 3 Sheets-Sheet 1

Fig. 1.



WITNESSES

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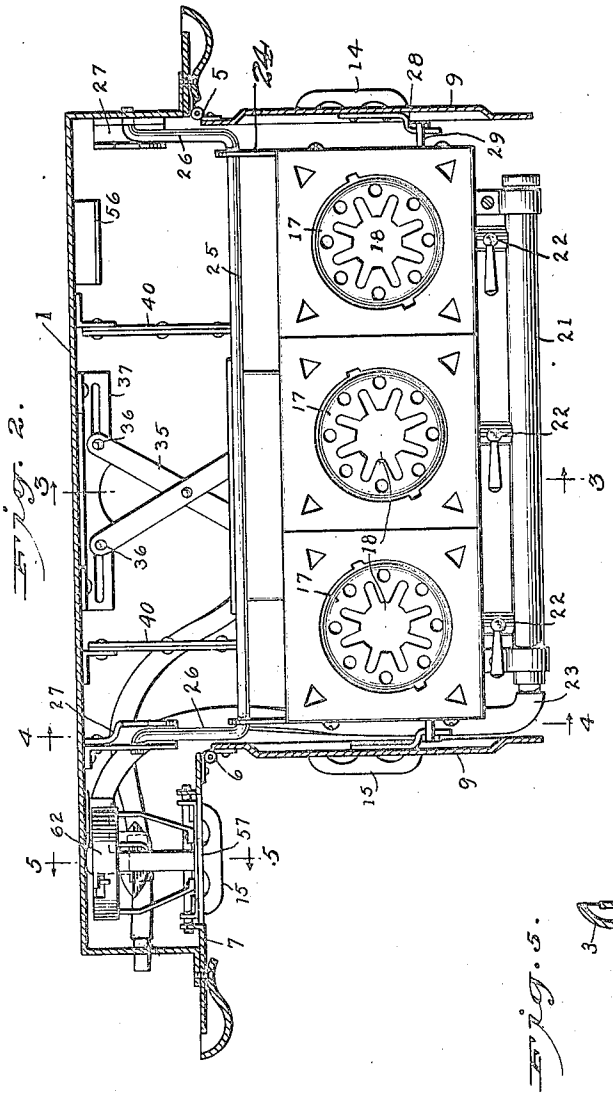


Fig. 2.

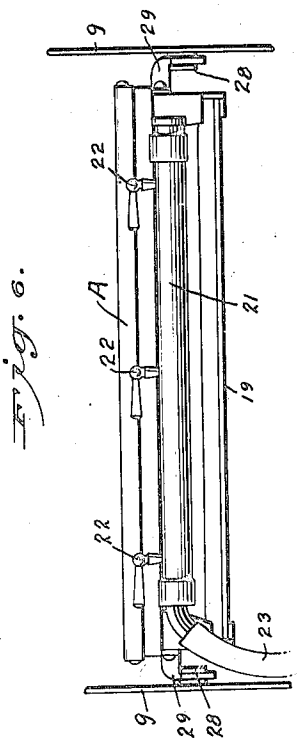


Fig. 6.

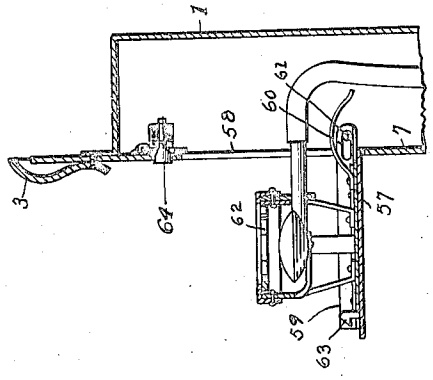


Fig. 5.

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Filed May 4, 1922 3 Sheets-Sheet 3

Fig. 4.

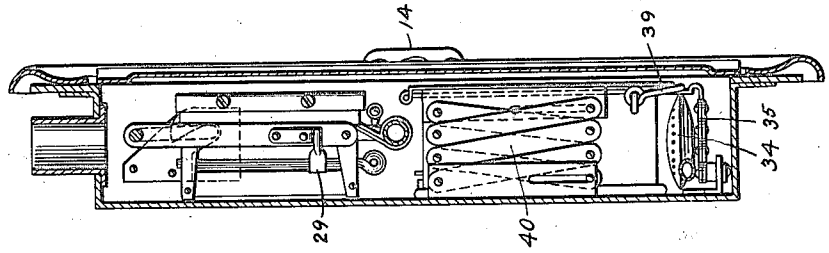
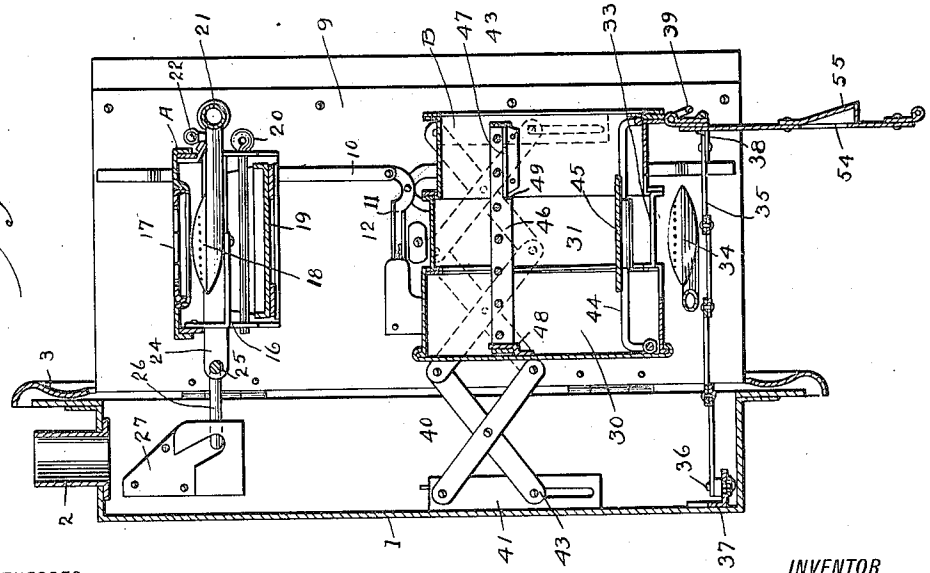


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

MAX SUSSMAN, OF DETROIT, MICHIGAN.

FOLDING COOK STOVE.

Application filed May 4, 1922. Serial No. 558,529.

To all whom it may concern:

Be it known that I, MAX SUSSMAN, a citizen of the United States, and a resident of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Folding Cook Stove, of which the following is a full, clear, and exact description.

This invention relates to improvements in folding cook stoves, an object of the invention being to provide a cook stove which, when not in use, can be folded or collapsed and occupy but relatively small space within a casing, countersunk or confined in the wall of a room.

A further object is to provide a cook stove which is especially designed for small apartments where there is a lack of space, but where housekeeping is done, as my improved stove can be positioned in the wall and be out of the way when not desired for use.

A further object is to provide a cook stove of the character stated, comprising any desired number of burners and a collapsible oven, which may be readily brought into operative position at the convenience of the user, and which will efficiently perform their functions when in use.

A further object is to provide a cook stove of the character stated, which is primarily adapted for use as a gas stove, although it is apparent that it may be employed as an oil stove, or as an electric stove, without departing from the invention.

With these and other objects in view, the invention consists in certain novel features of construction and combinations, and arrangement of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a perspective view, showing the main portions of the stove in operative position.

Figure 2 is a sectional plan view, taken on the line 2—2 of Figure 1.

Figure 3 is a view in vertical transverse section taken on the line 3—3, of Figure 2.

Figure 4 is a view in vertical transverse section taken on the line 4—4, of Figure 2, but showing the stove in its folded and enclosed position.

Figure 5 is a fragmentary view in vertical transverse section taken on the line 5—5, of Figure 2, but showing the single burner in its withdrawn operative position.

Figure 6 is a view in front elevation of the burners, or heating unit, shown in Figure 2.

Referring to the drawings, 1 represents an oblong or rectangular casing, which is adapted to be imbedded in a wall and which is provided at its upper end with a vent nipple 2, to which a pipe, not shown, may be connected to carry off the fumes and to prevent the accumulation of moisture within the casing.

The front of the casing is open and is preferably provided with a border, 3, around its edge, to be located against the outer face of the wall and to provide an ornamental finish to the casing.

The main portion of the casing is normally closed by a pair of doors 4, 4, one of said doors hingedly connected to one end of the casing as shown 5, and the other of said doors connected by hinges 6 to a plate 7, the latter secured to the casing, preferably by screws 8, and constituting a front closure for one end portion of the casing, for a purpose which will more fully hereinafter appear.

One of the doors 4, is made with an overlapping flange, to engage over the edge of the other door 4, when the latter is closed, and sliding bolts 10, are mounted on the inner face of the flanged door 4, and operated by pivoted levers 11, and a turn button 12, to project the bolts 10, against the inner face of the outer edge 13 of the casing to hold the doors in closed position.

A knob, or other operating device 14, is provided on the outside of the flanged door 4, to turn the button 12, and similar knobs, or buttons 15, are provided on the other door 4, and on the plate 7, to give an ornamental appearance—or these knobs may be omitted if desired.

My improved stove comprises a burner frame A and an oven B, these terms being employed to distinguish that portion of the stove which is used to support cooking utensils, for boiling, frying, and the like as A and that portion B in which baking etc., is performed.

The burner frame A, may be of ordinary standard construction, in that it comprises an open work body 16, having any desired number of grids 17, with suitable burners 18, below them, and a drip pan 19, mounted below the burners and prevented from uppard movement and displacement during

manipulation of the frame A, by means of removable rods 20.

It is to be borne in mind that my invention is not limited to the particular construction of the frame A, as this may be of any ordinary commercial type, having a fuel supply pipe 21, at its front with cocks 22, controlling the fluid to the burners and a flexible supply pipe 23, which connects the pipe 20, with the supply source.

Rearwardly projecting bars 24, are secured to the ends of the frame A, and are pivotally mounted on a crankshaft 25. This shaft 25, has crank arms 26 at its ends and the latter have rotary mounting in brackets 27. One of the brackets 27 is secured to an end wall of casing 1, and the other bracket 27 is fixed to the rear wall of casing 1. Both of these brackets 27 are of general U shape in vertical section and at their front ends constitute shoulders, or stops, to limit the forward and downward pivotal or rotary movement of the crankshaft 25, thereby serving to stop the shaft 25, in a general horizontal position.

Off set tongues 28 are fixed to the inner faces of the doors 9, and depending hooks 29, are secured to the ends of the frame A, so that when the frame is brought forwardly and downwardly, the hooks, 29 will engage the tongues 28, and support the frame A in horizontal operative position.

When the frame A, is not desired for use, it is swung upwardly and inwardly, the shaft 25, guiding such movement and directing the frame A into a vertical position within the casing 1, as shown most clearly in Figure 4.

The oven B, comprises a plurality of telescoping sections 30, 31 and 32. The intermediate section 31, having an opening 33 in its bottom to admit the flame and heat from the burner 34, located under the oven, and movable with the oven by reason of the fact that said burner is supported upon a lazy tongs 35, which constitutes the bottom support of the oven. It is, of course, to be understood that the burner 34, has a flexible supply hose connection which permits of its movement, and any suitable means may be provided for regulating the flow of gas or other fuel.

The lazy tongs 35, have slot and pin connections 36, with a bracket 37, secured to the inner wall of casing 1, and also have slot and pin connection with an angle bar 38 carried by the front section 32 of oven B. A bail 39 is connected to the front section 32, of the oven B, preferably at the lower portion of the latter, to serve as a hand hold to facilitate the extension, or drawing out of the oven.

The oven B is further supported by means of a pair of lazy tongs 40, located at opposite sides of the oven and connected to brackets 41, in the casing and to brackets 42, at the forward ends of the oven. These lazy tongs 40, also have slot and pin connections 43, with the brackets 41 and 42 respectively, to compensate for the expansion and contraction of said tongs to allow for the necessary movements of the oven.

When the oven is extended and in operative position, it is adapted to receive in its lower portion a frame 44, having a baffle plate 45 thereon, above the opening 33, to deflect the heat from the burner 34. A grating or grill 46, is adapted to be positioned in the upper portion of the oven B, when the latter is extended, and this grating 46 engages over a hook 48, at the inner end of the oven and at the outer end of the oven is supported on angle brackets 47.

The side members of the grating 46, are recessed at their forward ends, receiving the brackets 47 and providing shoulders 49 against the inner ends of the brackets 47, to hold the oven in its extended operative position.

A door 50, is connected by hinge 51, with lower edge of the front section of the oven, and has a catch 52, at its free edge, adapted to engage over a flange 53 on the oven front to hold the door in closed position.

The door 50, has a hand, or finger receiving entrance 54, covered by an angle plate 55, on the inner face of the door so that by inserting the fingers through this opening 54, the door can be conveniently manipulated.

A bracket 56 is secured to the inner wall of casing 1 at one side of the oven B and is adapted to support the frames 44 and 46 when the latter are removed from the oven and the oven is collapsed.

It will be noted particularly by reference to Figures 1, 3 and 4, that by reason of telescoping sections of the oven and their support upon the lazy tongs 35 and 40, the oven can be moved into and out of the casing 1, and when in the casing can be collapsed to a size sufficiently small to be accommodated within the confines of the casing.

Furthermore, it will be noted that when the oven is drawn outwardly, its sections will be telescoped so as to expand the oven into normal operative position.

The plate 7 above referred to, acts as a cover or enclosure for the pipe or supply tube connections, so that when this cover, or plate, is removed, the connections can be observed and repaired if need be.

Furthermore, the plate 7 also supports a platform 57, normally located in an opening 58, in plate 7 and having flanges 59 at its edges. These flanges 59 at their inner ends, have slots 60 receiving a fixed rod 61, so that a certain amount of longitudinal movement is permitted platform 57 in addi-

tion to its pivotal movement. On the platform 57, a single burner stove 62 is mounted in any approved manner and this single burner stove 62 may be used when it is desired simply to heat coffee, or for any purpose where a single burner will suffice. A hook 63 is fixed to the platform 57 and a push button catch 64 is provided in the upper portion of the plate and is adapted to engage the hook 63 and hold the platform in its closed position, but when said push button is operated, it will release the platform and allow the same to be drawn downwardly to a horizontal position, as shown in Figure 5.

The operation of my improved folding stove is as follows:—

Normally the members of the stove are folded and inclosed in the casing 1 with the doors 9 closed and locked, as shown in Figure 4.

When it is desired to use the stove, the doors are swung to open position and the frame A swung outwardly to horizontal position with the members 29 and 28 in interlocked engagement so that not only is the frame A held in horizontal position, but also the doors 9 are held against swinging movement.

When it is desired to use the oven B, the bail 39 is grasped and an outward pull exerted thereon to draw the oven forwardly and to extend the sections of the oven as shown in Figures 1 and 3. When in this position, the frames 44 and 46 can be inserted and the oven is ready for use.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A folding cook stove, comprising a casing adapted to be imbedded in a wall, a burner frame movably mounted in the casing, lazy tongs connecting the burner frame to the rear wall of the casing, doors connected to the casing, and adapted to support the burner frame when the latter is withdrawn from the casing.

2. A stove of the character described, comprising a casing adapted to be imbedded in a wall, doors adapted to close the casing, a burner frame movably mounted in the casing, a crank shaft supported in the casing, lazy tongs connecting the burner frame to the rear wall of the casing, a stove pivotally supported on the shaft, and devices on the doors supporting the stove when the latter is drawn outwardly from the casing.

3. A stove of the character described, comprising a casing adapted to be imbedded in a wall, doors adapted to close the casing, a burner frame movably mounted in the casing, a crank shaft supported in casing, a stove pivotally supported on the shaft, lazy tongs connecting the burner frame to the rear wall of the casing, tongues on the inner faces of the doors, and hooks on the stove engaging said tongues, to support the stove in operative position.

4. A folding cook stove, comprising a casing adapted to be imbedded in a wall, a burner frame movably mounted in the casing, doors connected to the casing, adapted to support the burner frame when the latter is withdrawn from the casing, and an oven comprising telescoping sections secured in the casing and movable outward therefrom.

5. A stove of the character described, comprising a casing adapted to be imbedded in a wall, doors adapted to close the casing, a crank shaft supported in the casing, devices on the doors supporting the stove when the latter is drawn outwardly from casing, and an oven comprising telescoping sections secured in the casing and movable outward therefrom.

6. A stove of the character described, comprising a casing adapted to be imbedded in a wall, doors adapted to close the casing, a crank shaft supported in the casing, a stove pivotally supported on the shaft, tongues on the inner faces of the doors, hooks on the stove engaging said tongues to support the stove in operative position, and an oven comprising telescoping sections secured in the casing and movable outward therefrom.

7. A stove of the character described, comprising a casing, doors normally closing the casing, a folding stove in the casing adapted to be supported in horizontal operative position by the doors when the latter are open, an oven comprising a plurality of telescoping sections, and lazy tongs connecting the outer section of the oven with the casing.

8. A stove of the character described, comprising a casing, doors normally closing the casing, an outwardly movable stove, lazy tongs connecting the burner frame to the rear wall of the casing, a burner frame movably mounted in the casing, and an oven adapted to be drawn out from the casing and operatively positioned when the doors are opened.

9. A stove of the character described, comprising a casing, doors adapted to close the casing, a movable stove in the casing, an oven comprising a plurality of telescoping sections, and lazy tongs supporting the oven and serving as a handle to manipulate the oven.

10. A stove of the character described, comprising a casing, doors adapted to close the casing, a movable stove in the casing, an oven comprising a plurality of telescoping sections, lazy tongs supporting the oven,

a bail connected to the oven and serving as a handle to manipulate the oven, and frames movably supported in the oven and holding the oven in extended position.

11. A stove of the character described, comprising a casing, a plate covering a portion of the casing, a pair of hinged doors, one of said doors connected to the plate, the other to the casing, a hinged stove in the casing and movable outwardly when the doors are opened, a telescoping oven in the casing and movable outwardly when the doors are opened, flexible fuel supply pipes operatively connected to the burners of the stove and oven, a platform hingedly supported in the plate, and a single burner stove supported on platform.

MAX SUSSMAN.