

June 19, 1934.

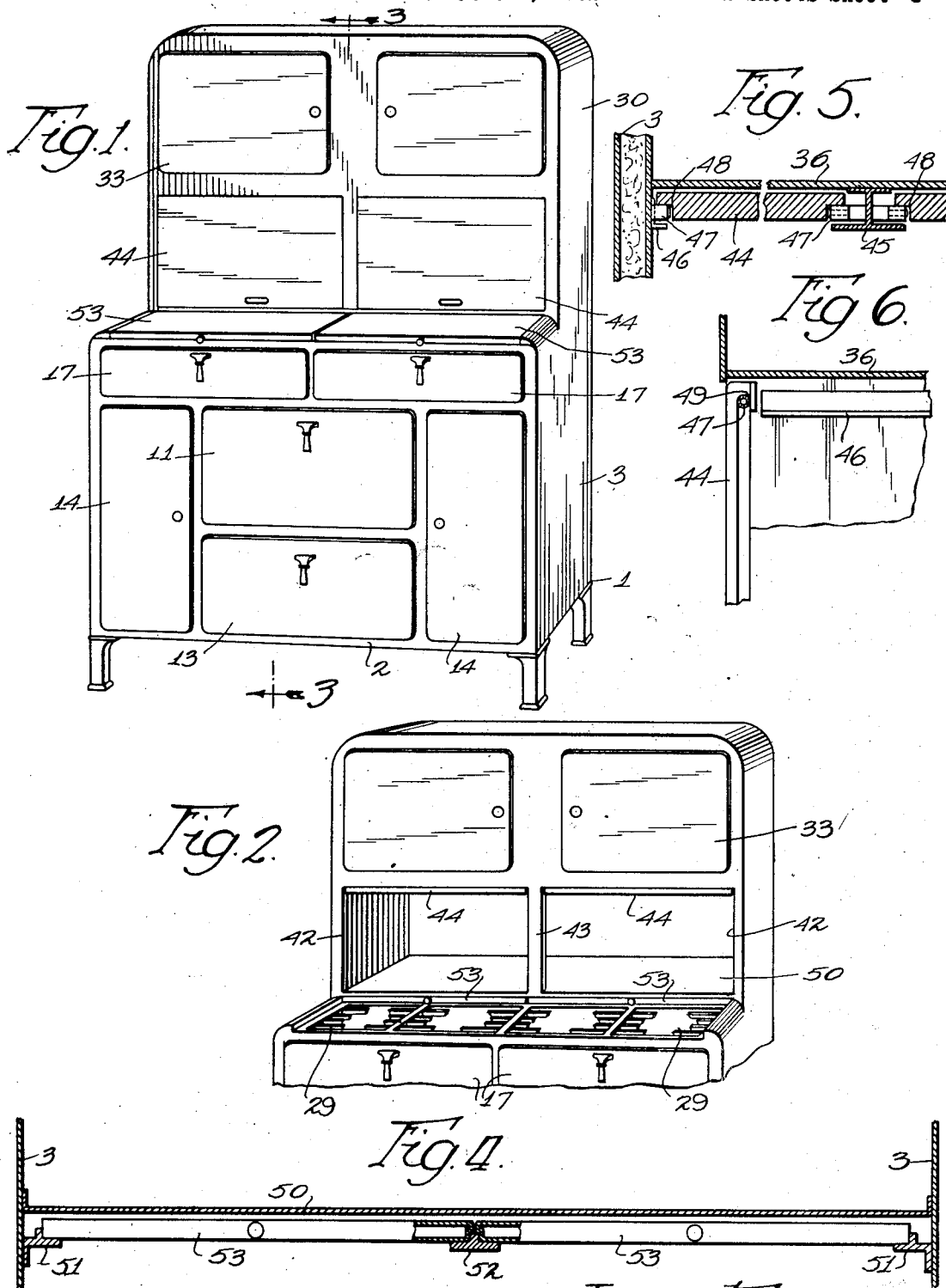
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CABINET STOVE

Filed Feb. 1, 1932

2 Sheets-Sheet 1



Witnesses
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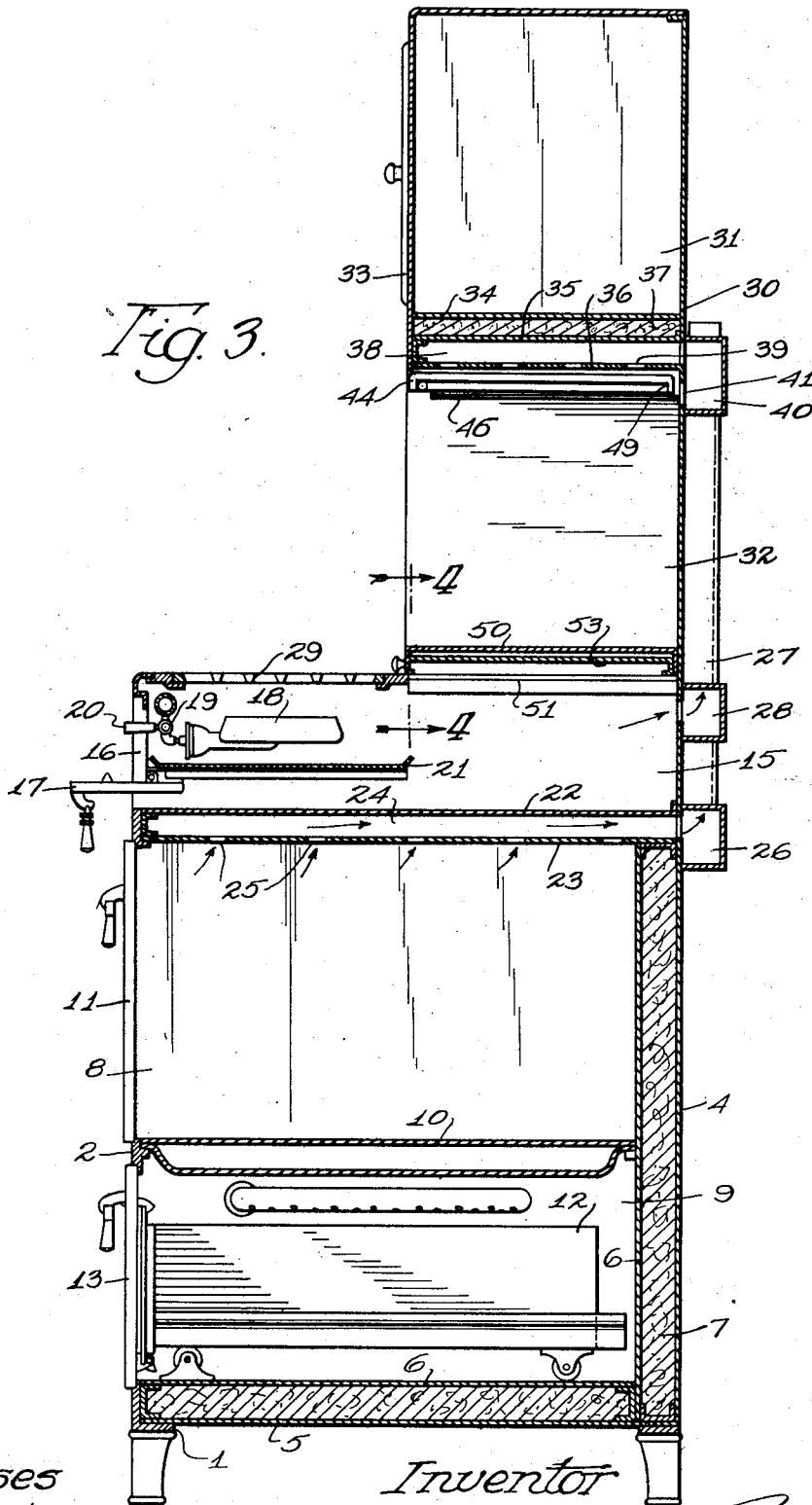
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Fig. 3.



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UNITED STATES PATENT OFFICE

1,963,281

CABINET STOVE

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Application February 1, 1932, Serial No. 590,029

5 Claims. (Cl. 126—37)

- The main objects of this invention are to provide an improved form of gas or electric stove which will present the appearance of a kitchen cabinet when not in use; to provide improved covers adapted to conceal the burner top when the stove is not in use; and to provide a stove of this kind having an improved form of cabinet positioned to receive heat from the burner box so as to be adapted for use as a warming closet.
- 10 An illustrative embodiment of this invention is shown in the accompanying drawings, wherein:
Figure 1 is a perspective view of a cabinet stove, showing the burner top covers and cabinet doors in closed positions.
- 15 Figure 2 is a perspective view of the upper part of the stove, showing the burner top covers and warming closet doors in open positions.
- Figure 3 is an enlarged transverse vertical section of the stove, taken on the line 3—3 of Figure 1, but showing the warming closet doors, burner top covers and valve guard in open positions.
- Figure 4 is a fragmentary vertical section, taken on the line 4—4 of Figure 3.
- 25 Figures 5 and 6 are details of the sliding connection between the cabinet and the warming closet doors
- In the form herein shown, the improved stove comprises a frame 1 having a front wall 2, end walls 3, rear wall 4, and bottom wall 5. Sheet metal linings 6 are spaced inwardly from the rear, bottom, and end walls and, if desired, insulation packing 7 may be inserted in the intermediate spaces.
- 35 Formed in the center of the frame, is the usual bake oven 8 and broiler oven 9, separated by a horizontal partition 10. The bake oven has a hinged door 11 and the broiler oven has a drawer 12 provided with a front hinged plate 13 forming a closure or door. Located on respectively opposite sides of the two ovens, are storage compartments having hinged doors 14.
- Located above the ovens and storage compartments, is a burner box 15 having a pair of openings 16 in the front wall of the stove, in which are mounted hinged guards 17. Located in the burner box directly behind the openings 16, are four burners 18 arranged in a single row. These burners are controlled by valves 19 having handles 20 which are arranged to engage the hinged guards 17 to prevent closing of the guards when the burners are in operation. This construction insures an ample supply of secondary air through the openings 16 when the stove is in operation.
- 55 This feature is more fully described and claimed in Rogers Patent No. 1,773,754, issued August 26, 1930.
- The arrangement of ovens, storage compartments and valve guards herein shown is described and claimed in Claus Patent No. 1,708,469, issued April 9, 1929.
- Mounted below the burners are the usual drip pans 21.
- The burner box has a bottom 22, which is spaced from the top 23 of the main oven to define an air passage 24 communicating with the oven through openings 25. This air passage also communicates with a horizontal passage 26 of a flue 27 mounted on the rear wall of the frame. The burner box communicates with a horizontal passage 28 of this flue.
- Mounted on the stove frame above the burners, is a burner top 29 which preferably extends rearwardly to approximately the center of the frame.
- Mounted on the rear portion of the frame, behind the burner top, is an upright cabinet 30 having an upper storage compartment 31, and a lower warming closet 32. The storage compartment is provided with a pair of hinged doors 33. Located between the storage compartment and the warming closet, are three horizontal partitions 34, 35 and 36 which are spaced apart vertically. Between the partitions 34 and 35, is a layer of insulation 37. Between the partitions 35 and 36, is an air passage 38 which provides communication between the warming closet, through perforations 39 in the plate 36, and a horizontal passage 40 of the flue 27. The warming closet also communicates with the passage 40 through apertures 41 in the rear wall of the cabinet.
- The warming closet has a pair of front openings 42 through which some of the heat from the burners enters the warming closet. A vertical strut 43 is located between the openings 42.
- Mounted in the warming closet, is a pair of sliding doors 44 which are movable to a vertical position, as shown in Fig. 1, for closing the openings 42, and which are adapted to be shifted into a horizontal position in the upper part of the warming closet, as shown in Figure 2, when open. These doors are supported in their open position by a central guide track 45 and a pair of end guide tracks 46 which are mounted near the top wall 36 of the warming closet. Mounted on these guide tracks near the forward ends thereof, are small rollers 47, which engage grooves 48 formed in the side edges of the doors 44. Shoulders 49 at the inner ends of these grooves prevent the doors 44 from being completely withdrawn from the guide tracks. When the doors 44 are with-

drawn as far as possible, the rollers 47 serve as pivots to permit the doors to be swung downwardly to closed position.

Mounted in the warming closet of the cabinet, is a bottom plate 50, which is disposed slightly above the plane of the burner top 29. Mounted on the stove frame below the plate 50, are horizontal guide tracks 51 and 52 which slidably support a pair of horizontal covers 53. These covers are slidable forwardly to the position shown in Figure 1 so as to overlie the burner top when the stove is not in use. When the burners are in use, the covers 53 are shifted rearwardly to the concealed position below the bottom plate 50.

In operation, when the stove is in use, the bottom plate 50 of the warming closet is heated by the hot air which flows rearwardly through the burner box. The warming closet is further heated by warm air passing through the openings 42. When the stove is not in use for cooking purposes, the covers 53 are moved forwardly to overlie the burner top and the doors 44 are moved outwardly and then downwardly to close the warming closet.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that certain details of the construction shown may be altered or omitted without departing from the spirit of the invention as defined by the following claims.

I claim:

1. A stove comprising a frame having a burner box, a horizontal burner top overlying the forward portion of said burner box, an outlet flue communicating with said burner box at the rear of said frame, a battery of burners in said burner box and arranged in a row below said burner top, a horizontal shelf overlying the rear portion of said burner box, said shelf being located between said burners and said flue so as to be exposed to the heat of the air passing to said flue, a guideway below said shelf, and a horizontal cover slidably mounted on said guideway and movable forwardly into closed position to overlie said burner top, said cover being concealed by said shelf when in open position.

2. A stove comprising a frame having a burner box in its upper portion, a horizontal burner top overlying the forward portion of said burner box, a cabinet mounted on said frame directly above the rear portion of said burner box, said cabinet having a bottom shelf exposed to the heat of said

burner box, said cabinet having a front opening adjacent said burner top, a door for said opening, and a horizontally movable cover adapted to overlie said burner top, said cover being movable to a concealed position below said bottom shelf.

3. A stove comprising a frame having a burner box in its upper portion, a burner top overlying the forward portion of said burner box, an outlet flue communicating with said burner box at the rear of said frame, a cabinet mounted on said frame directly above the rear portion of said burner box, a burner in said burner box arranged below said burner top, said cabinet having a bottom shelf, said shelf being located between said burner and said flue so as to be exposed to the heat of the air passing to said flue, and a horizontal cover slidably mounted on said burner top and movable rearwardly in a horizontal plane to a concealed position below said shelf.

4. A stove comprising a frame having an oven compartment, a burner box above said oven, a burner top overlying the forward portion of said burner box, a cabinet mounted on said frame directly above the rear portion of said burner box, a bottom shelf on said cabinet, a horizontal cover slidably mounted on said frame and adapted to overlie said burner top when closed, said cover being movable rearwardly to a position below said shelf so as to be concealed thereby, said cover and shelf being adapted to form ceilings for said burner box, and a flue on the rear wall of said frame having separate openings in communication with said oven, burner box, and with said cabinet.

5. A stove comprising a frame having front and rear walls, a burner box in the upper part of said frame and extending from said front wall to said rear wall, an outlet flue communicating with said burner box at the rear of said frame, a battery of burners in said burner box and arranged in a row along said front wall, a shelf forming a top for the rear portion of said burner box along said rear wall, said shelf being located between said burners and said flue so as to be exposed to the heat of the air passing to said flue, and a horizontally slidable cover adapted to overlie said burners and being also movable to a position below said shelf so as to be concealed thereby when not in use.

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