

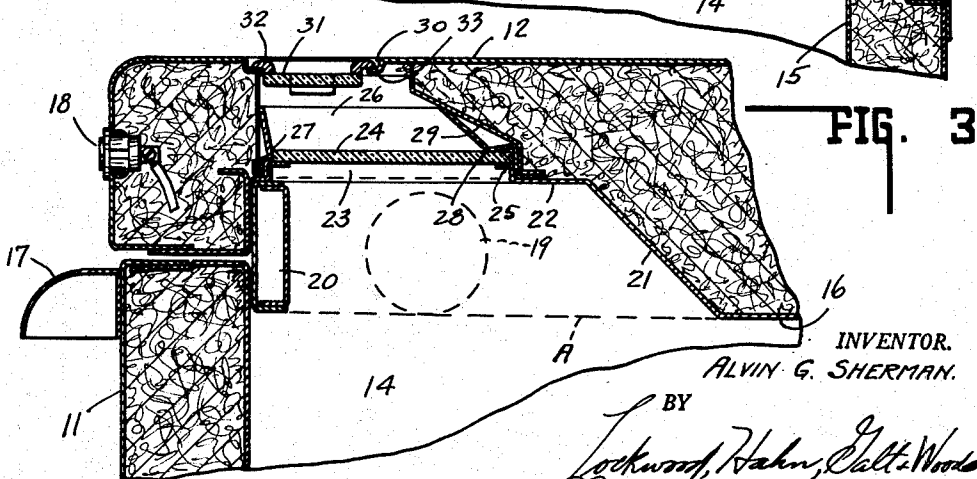
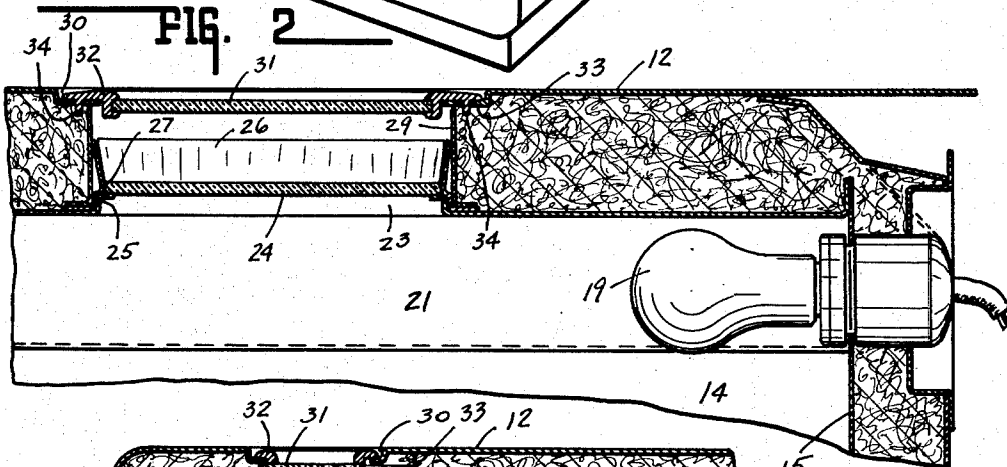
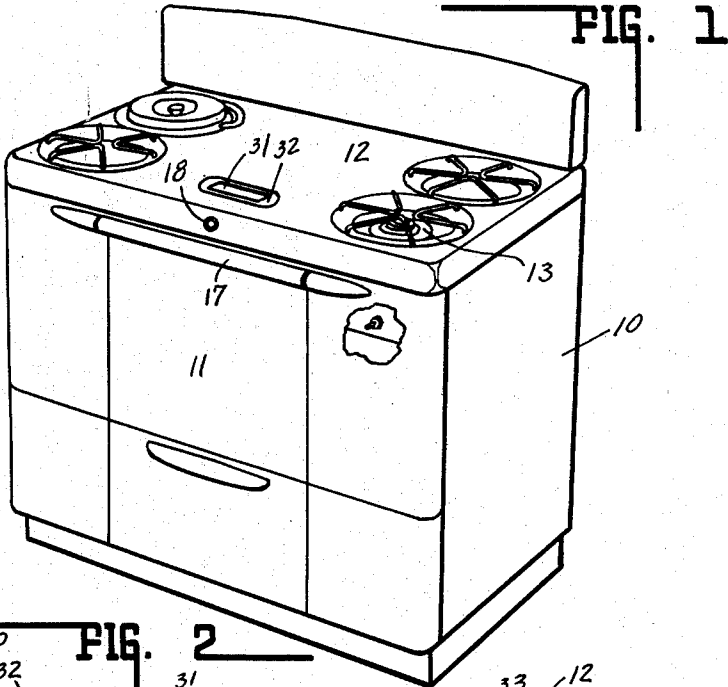
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COOKING STOVE

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COOKING STOVE

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This invention relates to a cooking stove, and particularly to its construction for permitting convenient viewing of the interior of the oven. It is recognized that various structures have heretofore been employed for permitting observation of the oven contents during baking without opening the oven door. This has been accomplished principally by providing a window in the oven door which has proven unsatisfactory and to a large extent has been abandoned in the stove industry for the reason, among others, that the glass of the window becomes browned and unsightly. Various periscope arrangements have also been attempted, but without success.

It is therefore the purpose of this invention to provide an observation window for the oven contents which will not detract from the appearance of the stove, and particularly will permit of convenient viewing by looking down through the cooking top. Thus, the contents may be observed by looking down through the top of the stove instead of bending down to a position required for looking through an oven door, as heretofore.

The invention therefore contemplates forming the top lining of the oven with an upwardly recessed dome-like portion terminating in an aperture carrying a glass panel adjacent the cooking top of the stove and providing a clamping and sealing structure for securing such panel in place as a section of the top of the oven while permitting of its ready removal to prevent it becoming browned and somewhat opaque over a period of use. A relatively smaller window supported by a removable frame is mounted flush with the cooking top of the stove in substantially spaced relation to the glass panel so that when standing over the stove one may look down through the window and panel into the interior of the oven.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims:

Fig. 1 is a perspective view of a stove showing the relative positions of the oven viewing window and oven compartment.

Fig. 2 is a longitudinal section through the oven viewing structure and the upper portion of the oven.

Fig. 3 is a transverse section through the upper portion of the stove taken centrally of the oven with the lower and rear portions thereof broken away.

In the drawings there is shown a cooking stove 10 having an oven door 11 and a cooking top

12 with the usual burners 13. Within the stove, centrally thereof as herein shown, for closure by the oven door 11 there is an oven compartment 14 having an end wall lining 15 and a top lining 16. The oven door is provided with a handle 17 and the front panel of the stove with a switch button 18 for convenient control of an electric light bulb 19 within the oven compartment. Mounted transversely of the oven compartment and secured to the inner side of the front panel of the stove there is provided the usual sheet metal flange 20 dependent into position for sealing engagement by the upper edge of the oven door. The above described structure is of the usual character generally found in stoves of this type.

The top lining 16 instead of being carried straight across the top of the oven, as indicated by the dotted line A in Fig. 3, is formed with an upwardly sloping wall 21 terminating in a horizontal portion 22 in which a viewing aperture 23 is provided. Said aperture is provided at the upper forward portion of the oven compartment lying adjacent the front panel of the cooking top 12 and is closed by a glass panel 24. Said glass panel, together with the wall 21 and its horizontal portion 22, comprises a part of the top lining of the oven of recessed or dome-like form.

The portion 22 of the lining terminates in an upwardly-extending and inwardly-flanged frame section 25, the flange thereof forming a seat for supporting the glass panel. The glass panel is removably secured in its seating position on said frame section 25 by a frame member 26. Said frame member is formed with an upstanding wall sloping inwardly, as indicated at 27, against which the forward and end edges of the glass panel frictionally engage and become wedged after inserting the rear edge of the panel under a clip-like formed portion of said member, as indicated at 28. It will be observed that the frame member 26 is generally in the form of a spring metal band having its walls flared upwardly and outwardly and confined within the wall section 29 of the recessed opening in the top lining 16. The lower portion of one side of the wall, preferably toward the front of the stove, has its lower edge sloping inwardly, as indicated at 27. The opposite wall, toward the rear of the stove, is formed to slope downwardly and rearwardly, terminating in the clip-like spring formation at 28 spaced forwardly from the wall section 29 for providing a spring shoulder under which the rear edge of the glass panel

may be slipped and clamped, whereupon the opposite edge thereof may be wedged downwardly against the inwardly sloping portion of the wall at 27. Thus, the resilient frame member 26 is confined within the opening and is coextensive with the seating flange 25, and is positioned for engagement with the peripheral edges of the glass panel 24 for yieldingly engaging the upper peripheral portion of said panel and removably clamp it at 28 against the seating flange. By reason of this structure the glass panel 24 may conveniently be removably held in place by the clamping at 28 and wedging at 27, and readily removed by slipping the forward edge of the panel upwardly at 27 against the spring tension of the clamp formation at 28 to permit it to slide therefrom.

Embracing the member 26 there is a wall section 29 of the stove sloping upwardly and forwardly thereof from the frame section 25 of the oven lining, said wall section terminating in an aperture adjacent and surrounding a window opening 30 in the cooking top 12. The opening 30 is preferably elongated to extend the full length of the glass panel, as shown in Fig. 2, but is considerably narrower, as shown in Fig. 3. It carries a glass window 31 supported by a window frame 32. Said window frame is laterally flanged to seat within a depressed ledge 33 of the cooking top surrounding the opening 30. Said ledge is perforated at its end portions to receive locating and interlocking lugs 34 depending from the frame 32.

For cleaning purposes the window and its frame 32 may be lifted from the cooking top 12, whereupon by reaching into the oven and pushing up on the forward portion of the glass panel it may be slipped from its frictional engagement by the sloping wall of the frame member 26 upwardly until it may be grasped and slipped from its clamping engagement by the clip-like portion 28 thereof. Said glass panel may then be removed from the stove through the opening 30 in the cooking top.

In use, with the glass panel and window in position, the oven may be readily and conveniently viewed by pressing the button 18 to illuminate the oven by the lamp 19 and then bending down one may observe the interior through the window 31.

The invention claimed is:

1. A cooking stove having a cooking top and an oven compartment, the top lining of said compartment being formed upwardly to provide an upper dome-like recess at the forward portion of said compartment and terminating in an opening, a seating flange formed on said lining forming the periphery of said opening, a glass panel supported on said seating flange to close said opening and provide a section of the top lining, a resilient frame member confined within said opening coextensive with said seating flange and positioned for engagement with the peripheral edges of said panel, said frame member having a clip-like portion in yielding engagement with the upper peripheral portion of said panel positioned to removably clamp it against said seating flange, said cooking top having an opening of substantially the same length but of less width than said panel and spaced upwardly therefrom, a depressed seating flange surrounding said cooking top opening and spaced above said first-mentioned flange, and a glass window supported by the said depressed flange in parallel relation to said panel to provide a closure for the opening of said cooking top through which the interior

of the oven compartment may be viewed in a downward direction through said window and panel.

2. A cooking stove having a cooking top and an oven compartment, the top lining of said compartment being formed to provide a recessed opening, a seating flange on said lining to extend into said opening, a glass panel supported on said seating flange to close said opening and provide a section of the top lining, a resilient frame member confined within said opening coextensive with said seating flange and positioned for engagement with the peripheral edges of said panel, said frame member having a clip-like portion in yielding engagement with the upper peripheral portion of said panel positioned to removably clamp it against said seating flange, said cooking top having an opening of substantially the same length but of less width than said panel and spaced upwardly therefrom, a depressed seating flange surrounding said cooking top opening and spaced above said first-mentioned flange, a glass window and frame therefor supported by the said depressed flange extending in parallel relation to said panel to provide a closure for the opening of said cooking top through which the interior of the oven compartment may be viewed in a downward direction through said window and panel, and locking members carried by said window frame and extending into interlocking engagement with said depressed flange.

3. A cooking stove having a cooking top and an oven compartment, the top lining of said compartment being provided with an opening into which a seating flange extends, a translucent panel supported on said seating flange to close said opening and provide a section of the top lining, a resilient frame member confined within said opening coextensive with said seating flange and positioned for engagement with the peripheral edges of said panel, said frame member having a clip-like portion in yielding engagement with the upper peripheral portion of said panel positioned to removably clamp it against said seating flange, said cooking top having an opening therein spaced upwardly from said panel, and a translucent window supported on said cooking top extending in parallel relation to said panel to provide a closure for the opening therein through which the interior of the oven compartment may be viewed in a downward direction through said window and panel.

4. A cooking stove having a cooking top and an oven compartment, the top lining of said compartment being provided with an opening therein, a translucent panel mounted on said lining, a removable frame cooperating with said lining and said panel for removably securing said panel to provide a section thereof and a closure for said opening, said cooking top having an opening therein spaced upwardly from said panel, a translucent window mounted in said cooking top opening extending in parallel relation to said panel to provide a closure therefor through which the interior of the oven may be viewed in a downward direction through said panel, and removable locking members cooperating with said cooking top and window for removably securing said window.

5. A cooking stove having a cooking top and an oven compartment, the top lining of said compartment being provided with an opening surrounded by a seating flange, a translucent panel removably supported on said seating flange to

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close said opening and provide a section of the top lining, a clamping member of yielding spring metal secured to said lining extending upwardly therefrom having a clip portion formed on one side thereof to receive and resiliently grip an edge of said panel, a spring shoulder formed on the other side thereof to frictionally engage the opposite edge of said panel under spring tension to secure said panel in sealing engagement with said flange while permitting upward removal thereof, said cooking top having an opening therein of a length greater than the length of said panel but of less width and spaced upwardly therefrom through which said panel may be removed, and a translucent window removably mounted in said cooking top in parallel relation to said panel for normally closing the opening therein but removable to permit said panel to be passed upwardly

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therethrough, said panel and window providing closures for said oven lining and cooking top respectively through which the interior of the oven compartment may be viewed in a downward direction.

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