Sept. 13, 1938. A. K. WEISKITTEL 2,130,169

WARMING SHELF FOR OVENS

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FIG. 1.

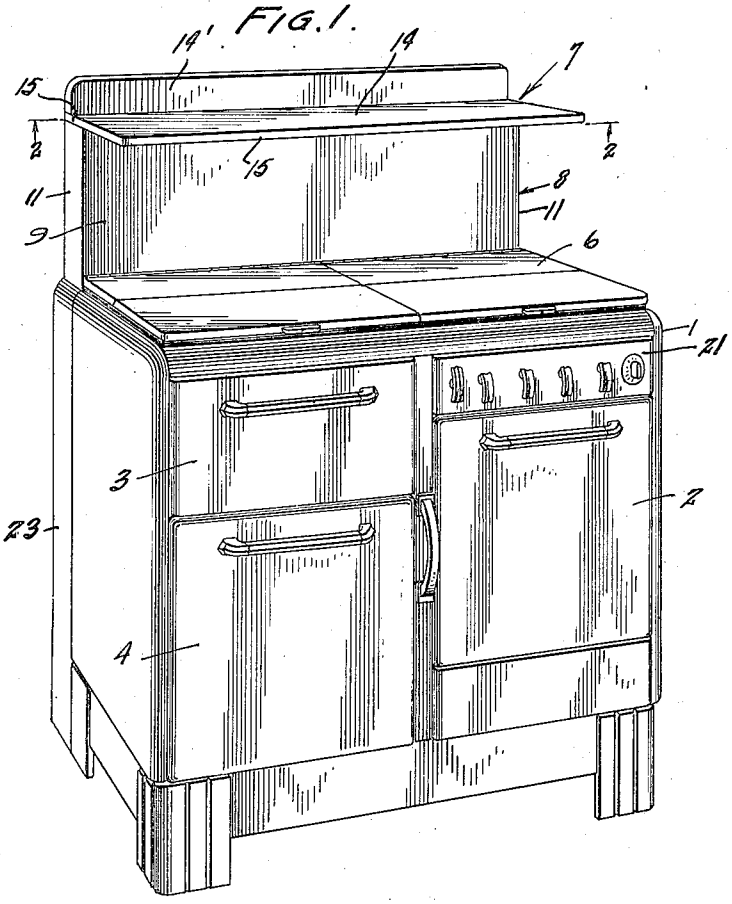
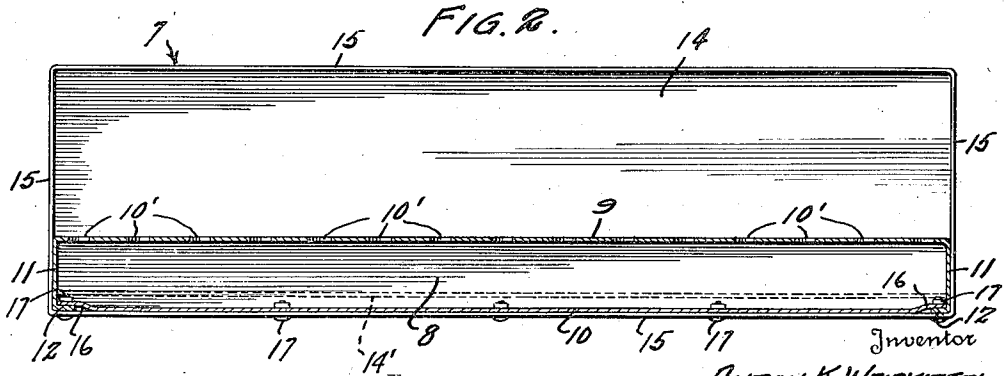


FIG. 2.



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FIG. 4.

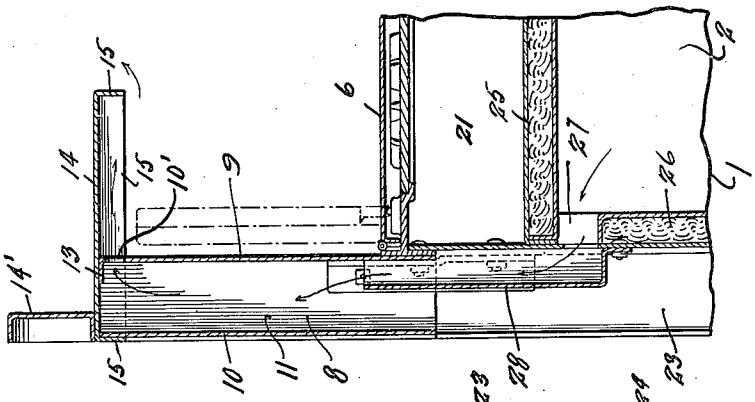
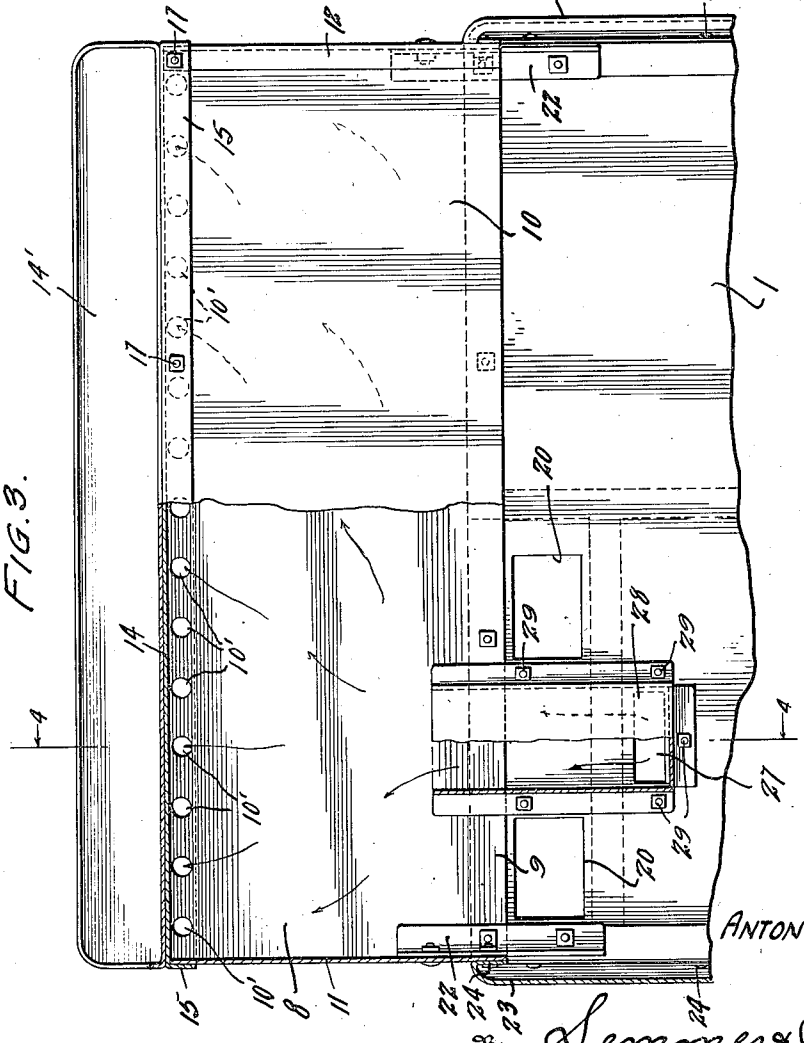


FIG. 3.



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UNITED STATES PATENT OFFICE

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WARMING SHELF FOR OVENS

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Application April 14, 1937, Serial No. 136,882

3 Claims. (Cl. 126—332)

This invention relates to a gas stove and more particularly to a gas stove provided with a warming shelf.

I am, of course, well aware that stoves have heretofore been constructed with warming shelves. In the stoves embodying warming shelves which are now in use, the heat is supplied by the upper burners of the stove. This type of warming shelf is not particularly desirable as the heat is not properly conveyed to the shelf.

An object of my invention is to provide a warming shelf which overcomes the defects now present in gas stoves.

Another object of my invention is to provide a gas stove which employs the oven gases for heating the warming shelf.

A further object of my invention is to provide a gas stove which utilizes the gases which escape through the flue at the back of the stove for heating the warming shelf.

Yet another object of my invention is to provide a warming shelf for stoves which will also keep the wall above the stove clean by diverting the grease laden gases away from the wall.

Yet another object of my invention is to provide a warming shelf for stoves which does not interfere with the proper combustion in the upper burners.

A still further object of my invention is to provide a detachable warming shelf which may be easily affixed to a gas range.

With these and other objects in view, which may be incident to my improvements, the invention consists in the parts and combinations to be hereinafter set forth and claimed, with the understanding that the several necessary elements comprising my invention may be varied in construction, proportions and arrangements, without departing from the spirit and scope of the appended claims.

In order to make my invention more clearly understood, I have shown in the accompanying drawings means for carrying the same into practical effect without limiting the improvements in their useful applications to the particular constructions which, for the purpose of explanation, have been made the subject of illustration.

In the drawings:

Figure 1 is a view in perspective showing my novel warming shelf.

Figure 2 is a view taken along the lines 2—2 of Figure 1 looking in the direction of the arrows.

Figure 3 is a rear view partly in section of the stove shown in Figure 1.

Figure 4 is a view taken along the lines 4—4 of Figure 3.

Referring to the drawings and more particularly to Figure 1, I have shown a gas stove 1 having a roasting oven 2, a broiling oven 3, and a warming compartment 4. A foldable false top 6 is provided for the top of the stove.

Essentially my invention consists in providing a warming shelf which is designated generally 7. As shown in Figures 1 and 2, the warming shelf includes a duct 8 which is formed of front, rear, and side walls 9, 10, and 11, respectively. The front and side walls 9 and 11 are preferably formed from a single sheet of metal and the end walls terminate in overturned ends 12. As best shown in Figure 3, the front wall 9 is provided with a pluarlity of horizontally aligned apertures 10' adjacent its upper end, the purpose of which will hereinafter be more fully described. The upper end of the front wall 9 is inturned as at 13 and in effect forms a transverse ledge. A warming shelf 14 having downturned edges 15 is positioned over the upper end of the duct 8. A transversely extending upright 14' is suitably secured to the rear portion of the shelf. This upright not only improves the appearance of the stove, but will prevent the dishes, pans, etc., from sliding from the rear of the shelf.

As clearly shown in Figure 2, the rear wall 10 is raised at its ends as at 16 so as to fit against the inner face of the inturned edges 12. Suitable securing means such as bolts 17 extend through the downturned edge 15 of the shelf 14 which abuts the rear wall 10, through the inturned edges 12 and the raised end 16 so as to secure the warming shelf to the duct 8. Moreover, the inturned portion 13 of the front wall will serve to support the shelf. With particular reference to Figure 3, it should be noted that the duct 8 does not extend downwardly far enough to cover apertures 20 which supply air to a compartment 21 in which the upper burners (not shown) are located. It is evident, therefore, that the duct 8 will not interfere with the proper combustion of the burners. Referring to Figure 4, it can be seen that the shelf 14 is of sufficient height to permit the top 6 to be folded to the position indicated by the dotted lines.

In order to more rigidly attach the duct to the rear portion of the stove, brackets 22 are secured to the end walls 11 of the duct and also to the rear of the stove 1.

As shown in Figure 3, a false side 23 is detachably secured to the lower portion of each of the end walls 11 of the duct 8 as indicated at 24. It

is believed obvious that the addition of the false sides will greatly improve the appearance of the stove.

Referring in more detail to the oven 2, it can be seen from Figure 4 that the oven is provided with insulated top and rear walls 25 and 26, respectively. An aperture 27 is provided in the upper portion of the oven for the escape of the oven gases.

In order to divert escaping oven gases through the duct 8 to the warming shelf, I position a flue 28 over the aperture 27. As shown in Figures 3 and 4 the flue may be removably secured to the rear wall of the stove by any suitable means such as bolts 29. It should be further noted that the flue extends upwardly a sufficient distance within the duct 8 to positively insure that the diverted gases will flow through the duct 8. This feature is of particular importance in that it will prevent the grease laden gases from issuing upon the wall at the rear of the stove.

From the foregoing description it is believed that the operation of my invention is apparent. The oven gases escaping through the aperture 27 will flow upwardly through the flue 28 into the duct 8 and then out through the apertures 10 to the underside of the warming shelf 14. The downturned edges 15 of the shelf will tend to retain the gases beneath the shelf and thereby insure thorough warming.

It will be readily appreciated that by utilizing the oven gases which escape from the oven, my device will not only heat the warming shelf but will also divert the grease laden gases away from the wall. Furthermore by having the warming shelf removably affixed to the stove, it will afford ease in installation and will permit the side walls to be readily removed for repairs.

While I have shown and described the preferred embodiment of my invention, I wish it to be understood that I do not confine myself to the precise details of construction herein set forth by way of illustration, as it is apparent that many changes and variations may be made therein, by those skilled in the art, without departing from the spirit of the invention, or exceeding the scope of the appended claims.

I claim:

1. In a stove construction embodying an oven, a duct secured to the rear of the stove, apertures adjacent the upper extremity of the duct, a warming shelf covered by said duct and in close proximity to the apertures and means for directing oven gases through the duct, apertures and to the warming shelf.

2. In a stove construction embodying an oven, a duct removably secured to the rear portion of the stove, a warming shelf carried by the duct, an aperture in the rear portion of the oven through which the oven gases escape, a flue positioned over said aperture and extending upwardly into the duct for directing the oven gases through said duct to the warming shelf.

3. In a stove construction embodying an oven, a duct removably secured to the rear of the stove, apertures provided adjacent the upper end of the duct, a warming shelf carried by said duct and in close proximity to the apertures, an aperture in the rear of the oven for the escape of oven gases, a flue positioned over said aperture and extending upwardly into the duct for directing oven gases through the duct, apertures, and to the warming shelf.

ANTON K. WEISKITTEL.