Aug. 22, 1933. R. B. HURT 1,923,981

GAS RANGE

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Fig. 1.

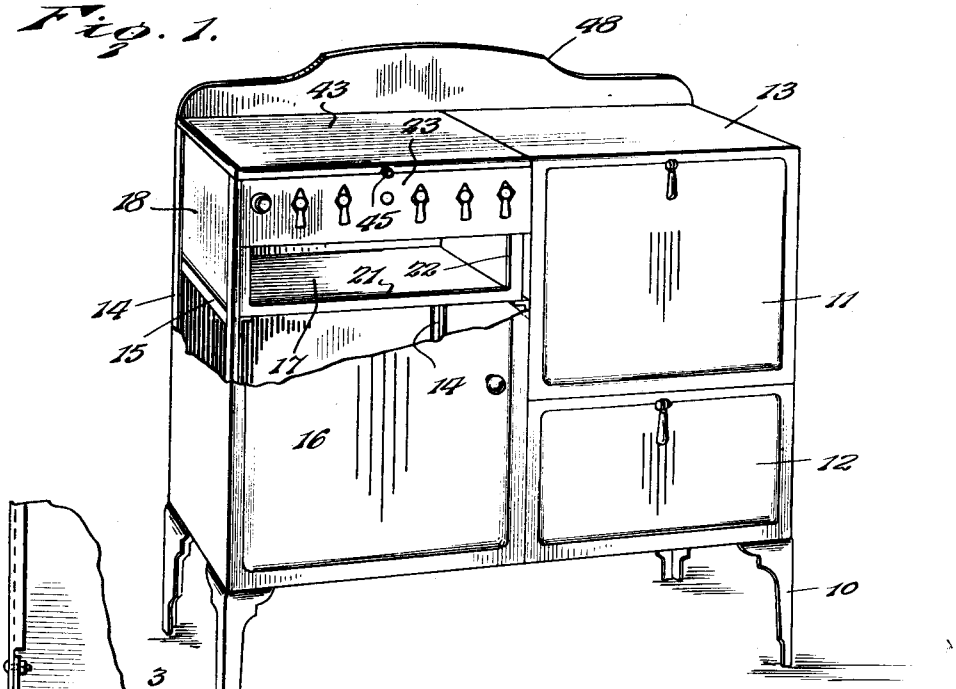
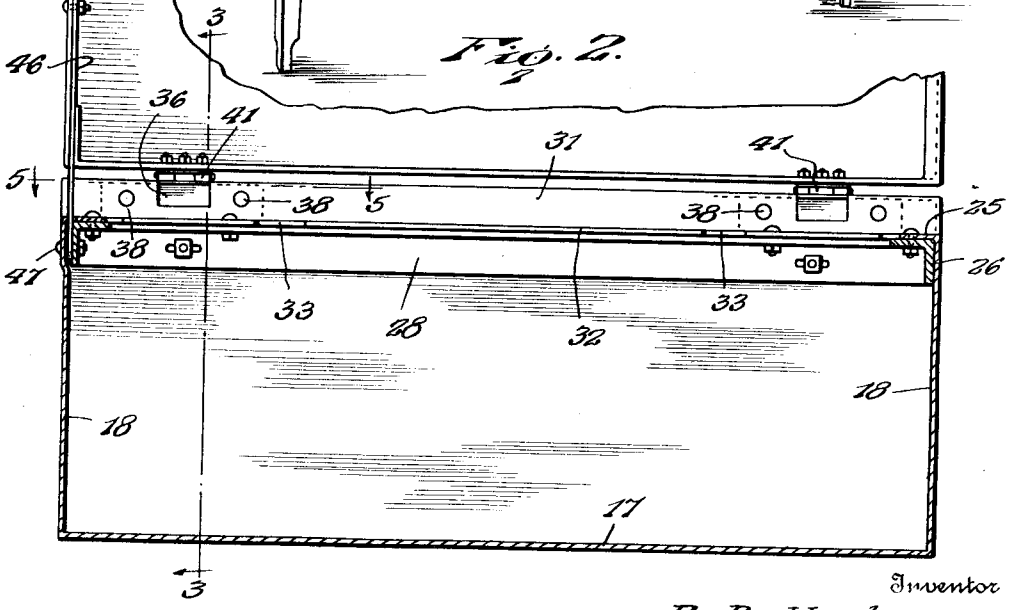


Fig. 2.



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Fig. 3.

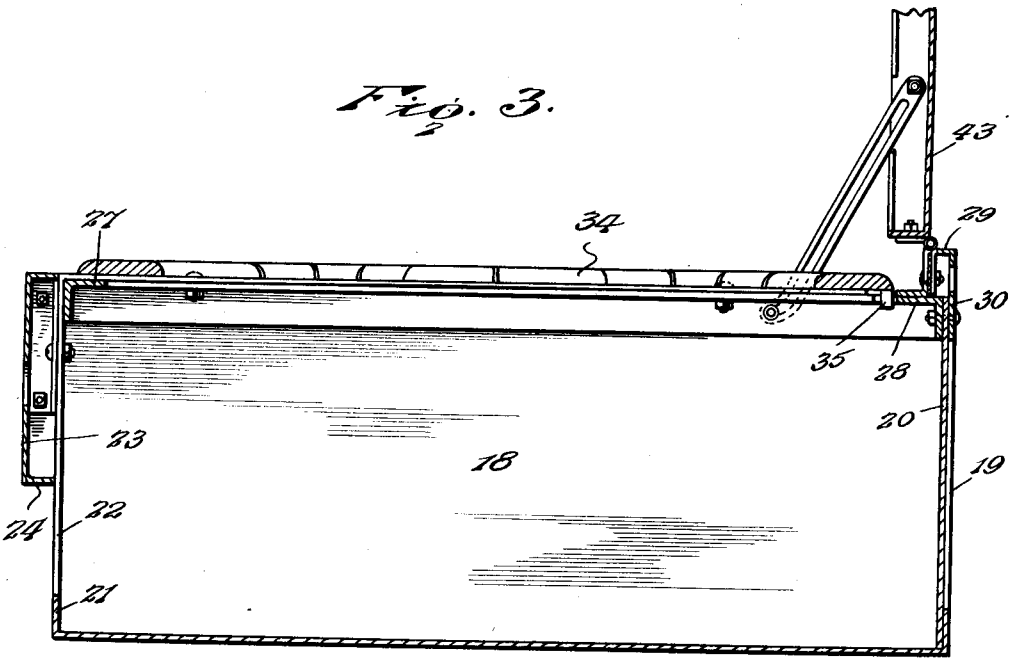


Fig. 4.

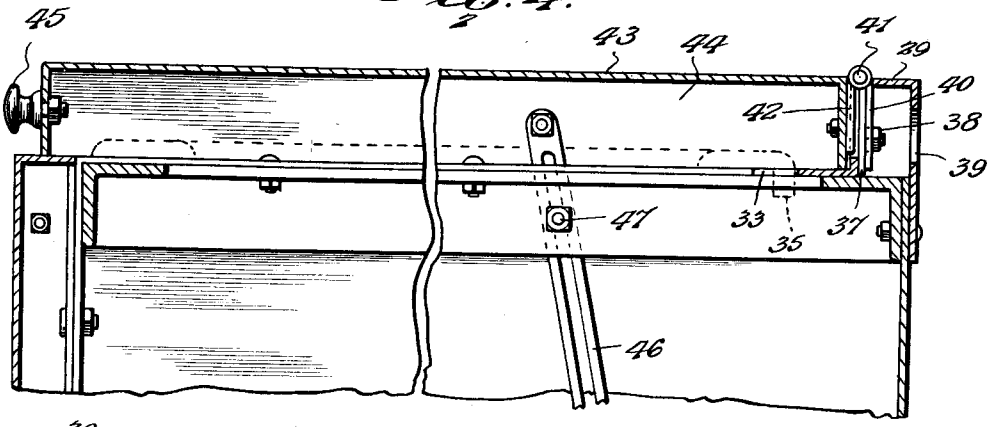
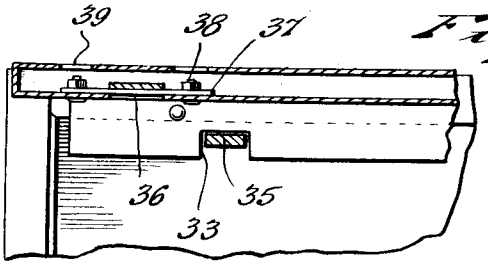


Fig. 5.



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UNITED STATES PATENT OFFICE

1,923,981

GAS RANGE

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Application October 12, 1932. Serial No. 637,591

6 Claims. (Cl. 126—214)

This invention relates to improvements in gas ranges and more particularly to an improved burner housing unit therefor.

The invention seeks, among other objects, to provide a unit wherein, when the cover thereof is closed, said cover will lie flush with the top of the oven of the stove to provide a so-called table range.

The invention seeks, as a further object, to provide an improved mounting for the cover embodying a cover-carrying channel member which, in addition to its function of supporting the cover will also serve to reinforce the body of the unit and support the burner grates at the corresponding ends thereof.

And the invention seeks, as a still further object, to provide a unit wherein the cover-carrying member will, when the cover is closed, lie flush with the cover to preserve the continuity of the top surface of the range.

Other and incidental objects of the invention will appear during the course of the following description.

Figure 1 is a perspective view showing a range with my improved unit mounted thereon, parts being broken away to more clearly illustrate the disposition of the unit,

Figure 2 is a tranverse vertical sectional view through the unit, showing the cover open,

Figure 3 is a horizontal sectional view on the line 3—3 of Figure 2,

Figure 4 is a view similar to Figure 3 showing the cover closed, and

Figure 5 is a detail section on the line 5—5 of Figure 2.

Referring now more particularly to the drawings, I have shown a gas range at 10 having an oven 11 below which is a broiler compartment 12, the oven being provided with a flat top 13. Certain of the upstanding frame bars of the range are indicated at 14 and extending from front to rear between said frame bars are angle bars 15 which support the improved unit of the present invention. It may be stated at this point, however, that the burner housing unit may be supported and secured within the range in any other approved or convenient way. In the present instance, a cupboard 16 is provided beneath said unit.

As particularly shown in Figures 2 and 3 of the drawings, my improved unit comprises a rectangular sheet metal body or box having a bottom wall 17 and side walls 18 provided at their rear ends with inturned flanges 19 between which is spot welded a back wall 20. The front of the body is open and upstanding from the bottom wall 17 is a flange 21 while flanges 22 extend inwardly from the side walls 18. Secured to the flanges 22 is a face plate 23 having flanges 24 abutting the flanges 22, the face plate being apertured to accommodate the controls of the burners housed within the unit.

Extending inwardly from the side walls 18 of the body, at their upper edges, are flanges 25, best seen in Figure 2, and bolted or otherwise secured to these flanges therebeneath is a rectangular reinforcing frame 26, preferably formed of angle iron. The frame is preferably an integral structure and the front and rear end bars 27 and 28 of said frame extend across the front and rear ends of the body so that the upper end portion of the body is rigidly braced by the frame. Overlying the rear end bar 28 of said frame is an upstanding cover-carrying member or strip 29. As particularly seen in Figures 3 and 4 of the drawings, this strip is formed from a single piece of sheet metal bent into channel shape. One flange 30 of said strip is straight and overlies the back wall 20 of the body, being secured to said back wall and to the rear end bar 28 of the frame 26 by bolts or other suitable fastening devices. The other or forward flange 31 of the strip 29 is bent at right angles to provide a forwardly projecting rest 32 which seats flat against the forwardly projecting flange of the end bar 28 and is bolted or otherwise secured to such flange.

Formed in the rest 32, at points transversely spaced of the body, are notches 33, best seen in Figure 2, and seating at their forward ends upon the rail 27 of the frame 26 and at their rear ends upon the rest 32 are the companion sections of a removable grate 34 provided, as seen in Figure 3, with depending lugs 35 extending through said notches. The outer longitudinal lips of the grate sections overhang the flanges 25 of the body to rest thereon so that the grate sections are firmly supported. It has been deemed unnecessary to show burners arranged within the unit as said burners form no part of the present invention.

Formed in the upstanding portion of the flange 31 of the strip 29, near the ends thereof, are notches 36, and extending across said notches within said strip, are plates 37 secured, as seen in Figure 5, to said flange by bolts 38. Opposite these bolts, the flange 30 of the strip is provided with openings 39 so that access may readily be had to the nuts of said bolts, the nuts lying within the strip. Spot welded to the

plates 37, at the notches 36, are the rear leaves 40 of suitable hinges 41. The hinge leaves 40 project through the notches 36 slightly above the strip 29 and these hinges are provided with companion hinge leaves 42 adapted to lie within the notches.

At this point it is desired to direct particular attention to the peculiar character of the cover-carrying strip 29. The long straight flange 30 of this strip which extends down at the rear end of the housing unit and is anchored to the end bar 28 of the frame 26 will prevent the strip from being wrenched loose and tilted forwardly, such as might otherwise ensue by reason of the repeated opening and closing of the cover. The flange 31 of the strip will not only brace the strip against forward tilting movement, by reason of the fact that the rest 32 of said flange seats flat against and is anchored to the end bar 28 but, for such reason, will also anchor the strip against rearward tilting movement such as might be caused by the cover when raised to open position. A secure and reasonably permanent mounting is thus provided for the cover.

Swingingly supported by the hinges 41 is a sheet metal cover 43 provided with depending side and end flanges 44. The hinge leaves 42 are bolted or otherwise fixed to the rear end flange of the cover and suitably connected to the front end flange is a knob 45. Swingingly connected to one side flange of the cover is a stop bar 46 which projects freely through a suitable slot in the adjacent side flange 25 of the body, between the contiguous side bar of the frame 26 and the adjacent side wall of the body, and extending through said bar and said side wall is a bolt 47, freely accommodated in a longitudinal slot in said bar. Thus, as seen in Figure 1, when the cover is swung to open position, this bar will limit the cover in its opening movement and sustain the cover in such position. When the cover is closed, said cover will, as particularly seen in Figures 1 and 4, close the unit so that the grate 34 as well as any burners within the unit will be completely hidden. Furthermore, the cover, when closed, will symmetrically conform to the outline of the range to present a neat and attractive appearance, and, as particularly brought out in Figure 1, will lie flush with the top wall 13 of the oven to provide, in conjunction with said wall, a smooth table top for the range.

Preferably a back plate 48 is arranged to extend longitudinally of the range at the back thereof to overlie the strip 29 and thus complete the neat appearance of the range.

Having thus described the invention, I claim:

1. In a range, a burner housing unit including a body, a cover-carrying strip straddling the angle between the top of the body and the rear end thereof, and a cover carried by said strip and normally closing the body.

2. In a range, a burner housing unit including a body having a back wall and side walls, a reinforcing bar extending between the side walls adjacent the back wall, a cover-carrying strip straddling the angle between said bar and the back wall and anchored to said bar and the back wall, and a cover hingedly connected to said strip and normally closing the body.

3. In a range, a burner housing unit including a body having side walls and a back wall, a reinforcing bar extending between the side walls adjacent the back wall, a channel shaped cover-carrying strip having a flange anchored to the back wall and another flange anchored to said bar, and a cover carried by said strip and normally closing the body.

4. In a range, a burner housing unit including a body having side walls and a back wall, a reinforcing bar extending between the side walls adjacent the back wall, a channel shaped cover-carrying strip having a flange anchored to the back wall and another flange bent at an angle to form a rest seating upon said bar and anchored thereto, a grate engaging said rest, and a cover carried by said strip and normally closing the body overlying said grate.

5. In a range, a burner housing unit including a body, a channel shaped cover-carrying strip fixed to the body at the rear thereof, one flange of said strip being provided with notches and the other flange of said strip being provided with openings opposite said notches, plates extending across the notches within the strip, means securing said plates in position and accessible through said openings, hinges having corresponding leaves thereof fixed to said plates and opposite corresponding leaves thereof adapted to lie in said notches, and a cover carried by the latter leaves of the hinges and normally closing the body.

6. In a range having an oven provided with a top wall, a burner housing unit mounted adjacent the oven, a cover-carrying strip fixed to said unit, and a cover swingingly connected with said strip and movable to closed position overlying said unit and lying substantially flush with said top wall and said strip.

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