March 13, 1934. W. D. ANTRIM ET AL 1,951,231

MOVABLE TOP FOR RANGES

Filed April 20, 1932 2 Sheets-Sheet 1

Fig. 1.

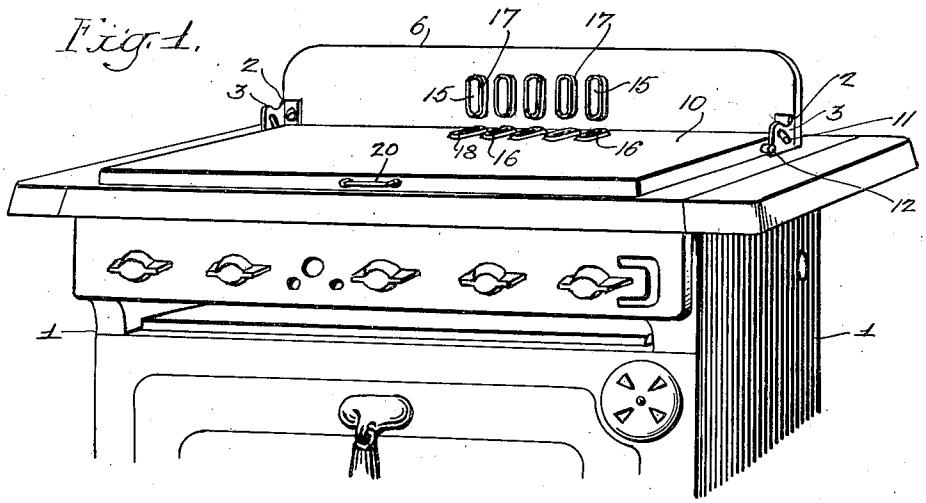
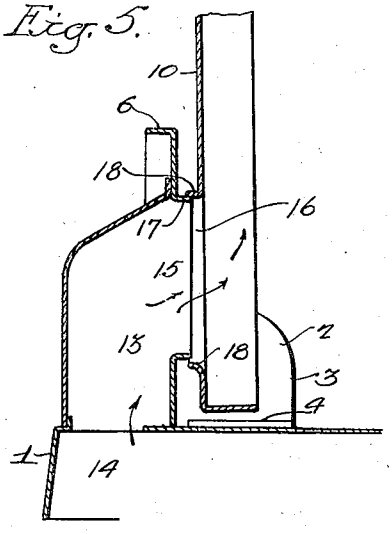


Fig. 5.



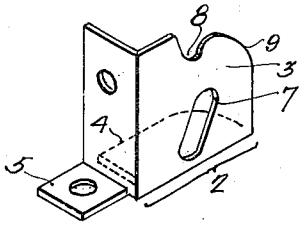


Fig. 6

Fig. 7.

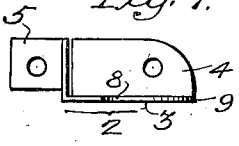
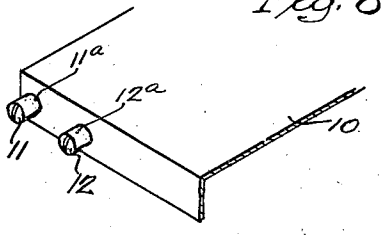


Fig. 8.



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MOVABLE TOP FOR RANGES

Filed April 20, 1932 2 Sheets-Sheet 2

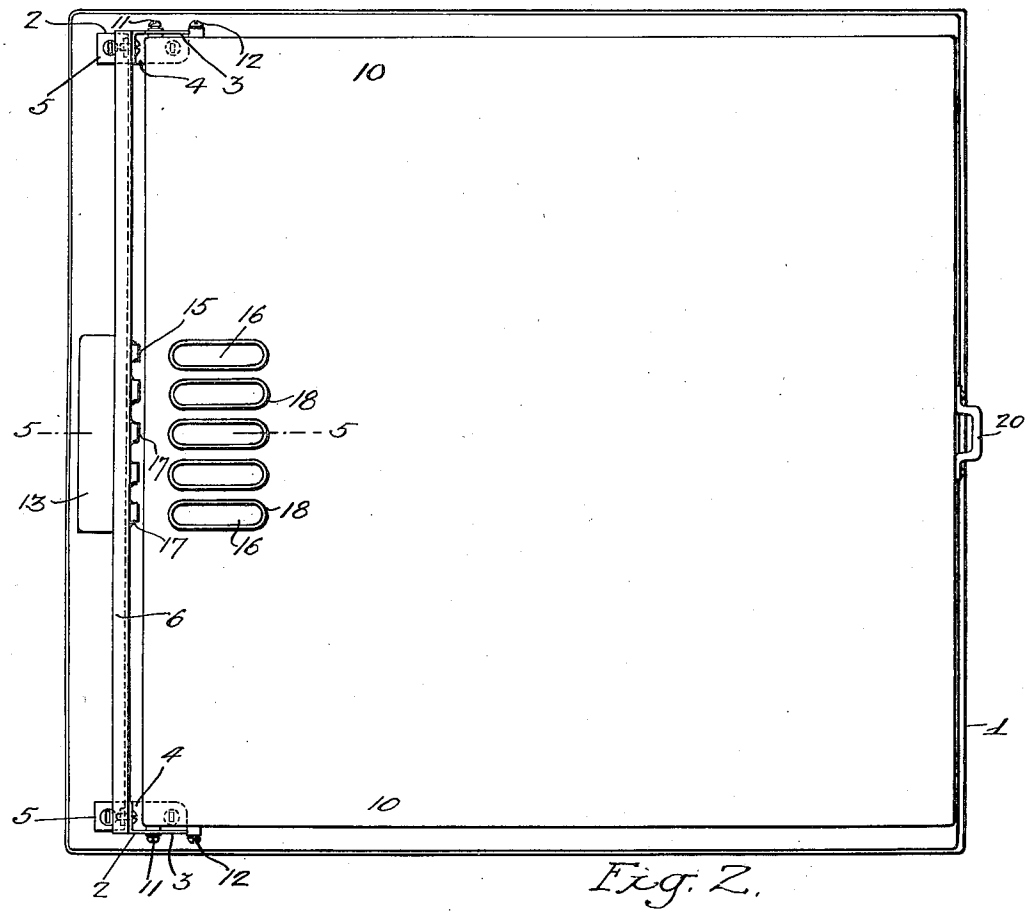


Fig. 2.

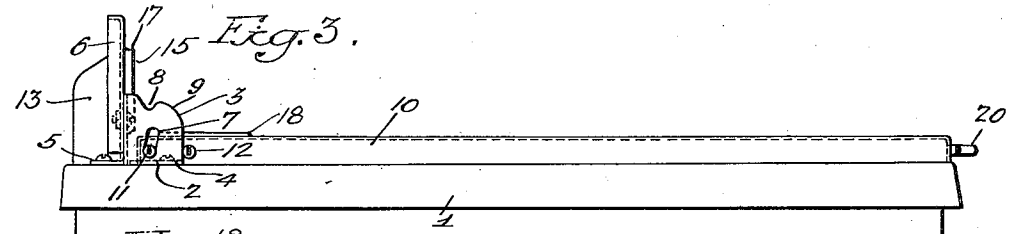


Fig. 3.

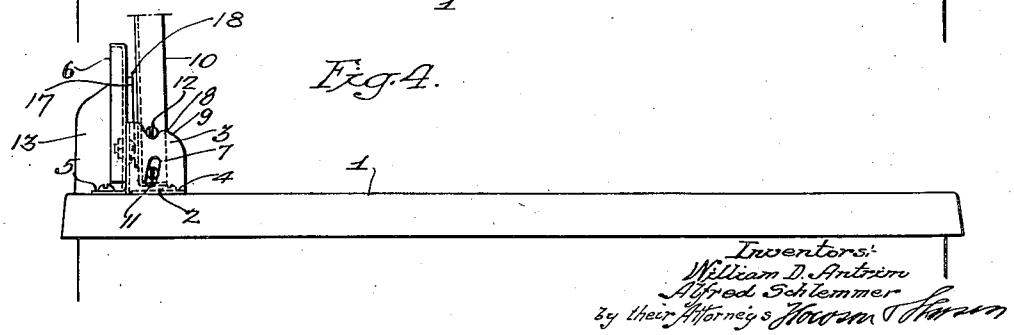


Fig. 4.

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Patented Mar. 13, 1934 1,951,231

UNITED STATES PATENT OFFICE

1,951,231

MOVABLE TOP FOR RANGES

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Application April 20, 1932, Serial No. 606,434

4 Claims. (Cl. 126—303)

One object of our invention is to provide a gas or electric range with a movable top, which when in one position covers the burners of the range and can be used as a table, and when in the other position is elevated so as to expose all the burners for cooking purposes.

A further object of the invention is to provide a simple and effective means for retaining the movable top in either of its two positions.

A still further object of the invention is to provide means to carry off the gases and smoke from the oven through the back plate and movable top of the range when the top is raised so as to expose the burners for cooking purposes.

The invention relates also to details which will be described hereinafter.

In the accompanying drawings:

Fig. 1 is a perspective view illustrating the upper portion of the range and the movable top in the position to cover the burners of the range;

Fig. 2 is a plan view of the range, showing the top in position to cover the burners of the range;

Fig. 3 is a side view of the upper portion of the range, showing the movable top covering the burners, as in Fig. 2;

Fig. 4 is a view similar to Fig. 3, showing the top raised to expose the burners;

Fig. 5 is a sectional view on the line 5—5, Fig. 2, showing the top raised, and the openings in the top communicating with the openings in the back plate, so as to allow the gases or smoke to pass from the flue leading from the oven through the openings, preventing the smoke from marring the walls of the room in which the range is located;

Fig. 6 is a detached perspective view of one of the hinge plates, which are secured to the body of the range;

Fig. 7 is a plan view of the hinge plate; and

Fig. 8 is a perspective view of a portion of the top, showing the pivot pin and retaining pin at one side of the top.

Referring to the drawings, 1 is a range either of the gas or electric type. Secured to the upper surface of the range at each side thereof, and at the rear end, are hinge plates 2, shown clearly in Fig. 6. Each plate has a vertical portion 3 reinforced by a wide vertical flange 4. At the lower end of the hinge plate 2 is a base 4, in the present instance bent from the vertical portion 3, and projecting rearwardly from the vertical flange 4 is a foot 5 in the base 4, and in the foot 5 are holes through which screws extend, which secure the hinge plate to the upper portion of the range. In the vertical flange is a hole for a screw bolt which secures the hinge plate to the back plate 6 of the range. Thus the hinge plates are rigidly secured to the body of the range. In the vertical portion 3 of each hinge plate is a slot 7, set at a slight angle as shown, and in the upper edge of the vertical portion is a notch 8, and the upper edge of the vertical portion 3 is curved as at 9.

10 is the movable top of the range. The top has at each side near the rear end, a pivot pin 11 which extends through the slot 7, and a retaining pin 12 extends from each side of the top in advance of the pivot pin and fits against the edge of the vertical section 3 of the hinge plate when the top is in a horizontal position as in Figs. 2 and 3. In the present instance, on each pin is a roller 11*a* and 12*a*, respectively. When the top is raised the pins 12 ride upon the curved edge 9 of the vertical portion of the hinge plates, and when the top 10 is raised to a position slightly back of the vertical, the retaining pins 12 drop into the notches 8, the slots 7 allowing the pivot pins 11 to move vertically with the top as the pins 12 travel over the curved portion 9, and allow the pins 12 to drop into the notches 8 when the top is fully raised. The two pins 11 and 12 retain the top in the raised position, which is stated above, is slightly back of a vertical line. At the forward end of the top 10 in the present instance, is a handle 20, by which the top can be raised or lowered.

At the rear of the back plate 6 is a box 13, which communicates with a flue 14 leading from the oven of the range. This box is closed but the back plate has a series of slots 15 therein, which communicate with slots 16 in the top 10 when the top is in the elevated position, as shown in Fig. 5, so as to allow the gases or smoke which pass through the flue 14 from the oven of the range, to be directed away from the wall against which the range is located, and to the front of the top plate 10, as shown by arrows in Fig. 5.

In the present instance a flange 17 surrounds each opening in the back plate 6, and surrounding the openings 16 in the top 10 are flanges 18. The openings 16 in the top are slightly larger than the openings 15 in the back plate 6, so that when the top is raised the flanges 17 extend into the openings 16, making a comparatively tight joint, so as to insure the gases passing from the box 13 through the openings in the top. By this means the gases and smoke are directed away from the walls of the room. As the openings 16 are at the rear portion of the top they do not interfere with

the use of the top as a table when in the horizontal position.

We claim:

1. The combination in a gas or electric range having burners and an oven, of the body of the range; a back plate extending above the upper surface thereof, said back plate having openings therein; a box back of the openings; a flue from the oven, communicating with the box and with the openings in the back plate; a hinged top plate arranged to cover the upper surface of the range; and means for retaining the hinged top plate in its raised position in close proximity to the back plate, said top plate having openings aligning with the openings in the back plate when in the raised position.

2. The combination in a gas or electric range having burners and an oven, of the body of the range; a back plate extending above the upper surface thereof, said back plate having openings therein; a box back of the openings; a flue from the oven, communicating with the box and with the openings in the back plate; a hinged top plate arranged to cover the upper surface of the range; and means for retaining the hinged top plate in its raised position in close proximity to the back plate, said top plate having openings aligning with the openings in the back plate when in the raised position; flanges surrounding the openings in the back plate; and flanges around the openings in the top, the flanges of one of these elements extending into the flanges of the other element, so that the outlet passage from the box will be continuous to the outer surface of the top plate when the top is in the raised position.

3. The combination in a gas or electric range, of a body structure comprising an oven, and burners mounted in the top of said structure; a back plate extending above the upper surface of said body structure, said back plate having openings therein; a flue connecting said openings with the oven; and a top plate at the top of the body structure normally overlying said burners and adjustable to an elevated position adjoining said back plate, said top plate having openings positioned to register with the said back plate openings when the top plate is in said elevated position.

4. The combination in a gas or electric range, of a back plate extending upwardly from the rear of said range; a top plate adjustable to a substantially vertical position closely adjoining said back plate, said back plate having an opening; a flue connected with said opening; and said top plate also having an opening positioned to register with the opening of said back plate when the top plate is adjusted to the elevated position, thereby to leave the said flue unobstructed.

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