March 22, 1938. H. H. TURNER 2,111,824

STOVE TOP

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Fig. 1.

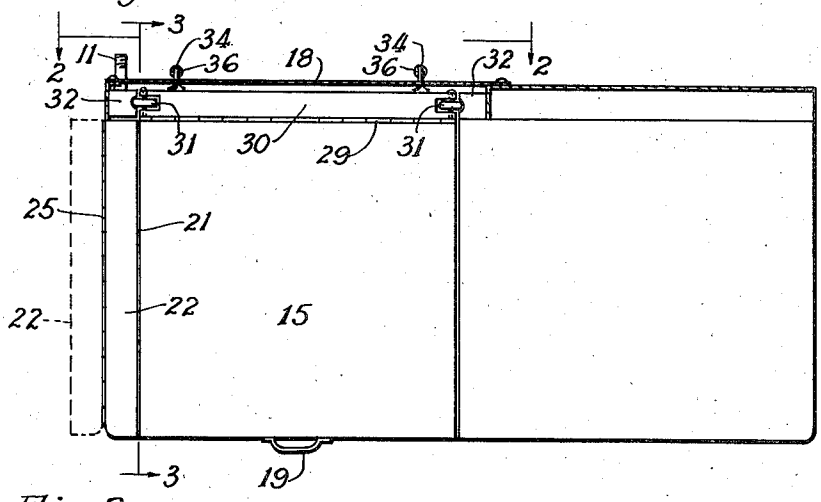
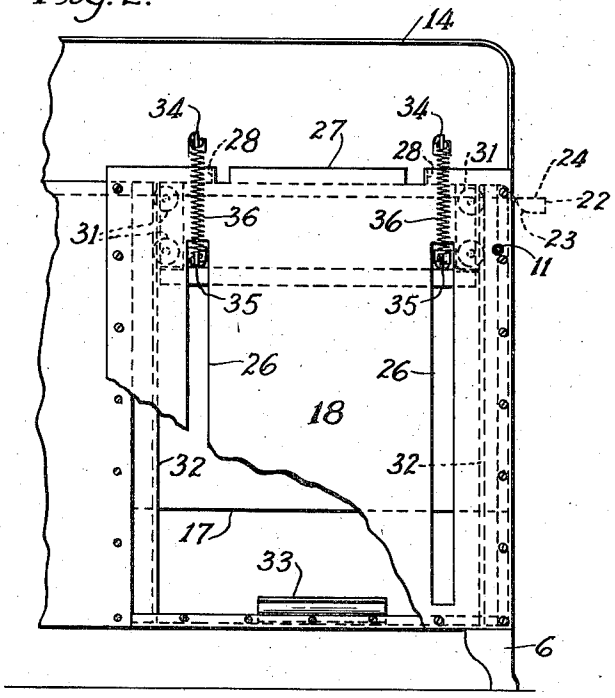


Fig. 2.



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Fig. 3.

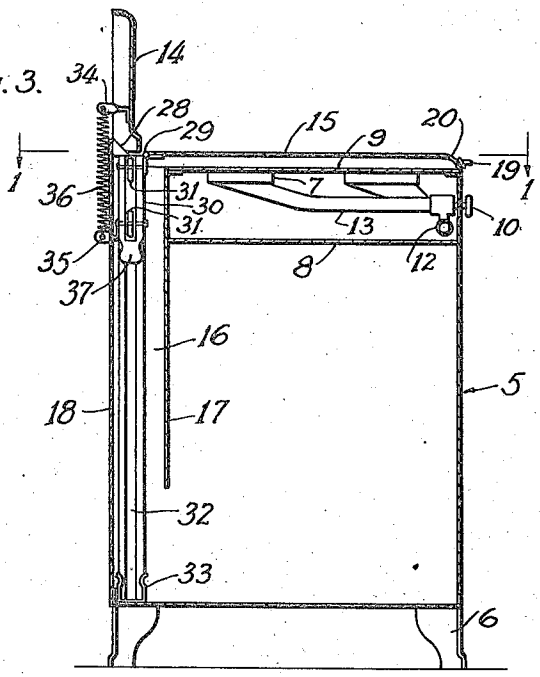
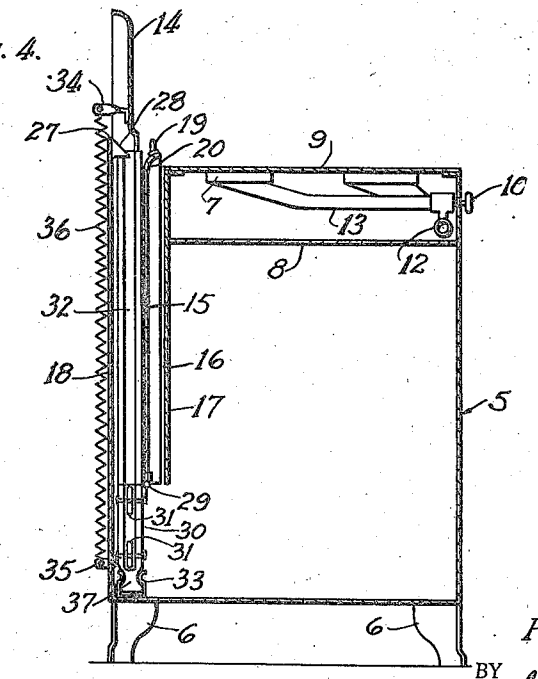


Fig. 4.



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UNITED STATES PATENT OFFICE

2,111,824

STOVE TOP

Howard H. Turner, Hawthorne, Calif., assignor of one-half to Ernest E. Larson, Inglewood, Calif.

Application February 10, 1936, Serial No. 63,116

3 Claims. (Cl. 126—214)

My invention relates to tops for gas or electric stoves, and more particularly to disappearing tops for same. Reference is made to my co-pending application Serial No. 63,117 filed February 10, 1936, in connection with subject matter shown but not claimed in the instant application.

An important object of my invention is to provide a top of the character mentioned, which, when not in use, may be made to disappear within or behind the body of the stove.

Another object is to provide, in a gas or electric stove having an upstanding back member, a stove top that will neither cover, mar the appearance of, nor in any way interfere with full access to said back member, when the top is raised. The invention also comprises novel details of construction and novel combinations and arrangements of parts, which will more fully appear in the course of the following description.

In the drawings, like reference characters designate similar parts in the several views.

Figure 1 is a plan view of a stove containing an embodiment of my invention. This figure is partly in section, taken on the line 1—1 of Figure 3.

Figure 2 is a broken rear elevation, looking in the direction of the arrows 2—2 of Figure 1.

Figures 3 and 4 are sections taken on the line 3—3 of Figure 1, respectively, showing the stove top in its burner-covering position and in its lowered position.

Referring more in detail to the drawings, the reference numeral 5 indicates a gas stove mounted on legs 6. The stove comprises conventional gas burners 7, disposed between a bottom plate 8 and a grid 9. Valve means for controlling the flow of gas are suggested at 10. A main supply pipe 11 connects with a header 12, which in turn is connected by means of branch pipes 13 with the burners. The stove is shown with an upstanding back member 14. The features mentioned thus far are of ordinary construction and per se form no part of my invention.

It is believed to be clear without further illustration that my stove top may be made to disappear either into the stove or down in the rear of the stove. In the embodiment shown in the drawings, stove top 15 may be made to disappear in a slot 16 between an apron or partition 17 depending from the bottom plate 8 and a panel 18 bolted to the rear of the stove.

The top 15 at its front edge carries a handle 19. The top is shown as having curved down edges 20 to provide a closer fit with the rim of the stove. The top 15 extends to within a short distance of the end of the stove, as best shown at 21 in Figure 1. This arrangement permits the top to be completely enclosed when dropped down and provides space for a roller guide, hereinafter described.

To completely cover the top of the stove, I provide a complementary extension 22 of the top. This extension has a curved side 23 and a flat side 24, and is hinged to the rim of the stove at 25. When the extension is in the full line position shown in Figure 1, it provides a complement of the top 15, by reason of its curved, finished edge 23. When the extension is swung to the broken line position, shown in Figures 1 and 2, the flat side is upward, which provides a small shelf which is flush with the upper surface of the grid 9.

The panel 18, which is bolted to the back of the stove, has vertical slots 26 intermediate its upper and lower edges. Detents 28 are cut in the upper edge and bent inwardly, as shown in Figures 3 and 4, to provide stops.

The top 15 is hinged at 29 to a carriage 30 that is provided with rollers 31. Vertical, grooved runways 32 are arranged at opposite edges of the slot 16 for the rollers 31. A spring catch or clamp 33 is afforded adjacent the lower ends of the runways. The roller carriage 30 has a boss 37 adapted to be gripped by the spring clamp 33.

Brackets 34 and 35 on the rear face of the plate 14 and on the roller carriage 30 respectively are connected by means of coiled springs 36. The brackets 35 pass through and move vertically in the slots 26 in the back panel.

In the use of a stove employing an embodiment of my invention, the top 15 in its raised position, shown in Figure 3, covers the burners and grids. With the top 15 in this position, the complementary extension 22 is turned so its curved edge 23 is upward. In these positions of the top 15 and its extension, a smooth, attractive continuous surface is provided from front to back and from side to side of the burner area, with curved edges along the front and end of the stove.

When it is desired to obtain access to the burners, the top 15 is raised by means of the handle 19, and the top, together with its roller carriage 30, are lowered into the slot 16 until the boss 37 is in engagement with the spring catch 33. The tension of the springs 36 prevents the top 15 and roller carriage from dropping forcibly in the slot 16.

When it is desired to close the top, the above described operation is reversed. The top is withdrawn from the spring clamp and the stops 28

limit upward movement of the roller carriage. The tension placed in the springs 36 by the downward movement of the carriage assists in raising the top.

While I have illustrated and described what I now regard as the preferred embodiment of my invention, the construction is, of course, subject to modifications without departing from the spirit of my invention. I, therefore, do not wish to restrict myself to the particular form of construction illustrated and described, but desire to avail myself of all modifications which may fall within the scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a gas or electric stove provided with burners or heaters, a top in one position disposed over the burners or heaters, the stove providing a space for concealing the top, the top being movable in and out of said space, a vertical guide in said space, a roller carriage movable vertically in said guide, hinge means connecting the top with the carriage, releasable spring means holding the carriage when the top is in the space, and a second spring means connected with the carriage and urging the top out of said space.

2. In a gas or electric stove provided with burners or heaters, a top in one position disposed over the burners or heaters, the stove having a compartment to receive the top, a track in the compartment comprising rails on opposite walls thereof, a carriage movable vertically in the compartment, rollers on the carriage movable respectively on the rails of the track, and hinge means connecting the top and carriage whereby the carriage follows or directs the movements of the top.

3. In a gas or electric stove provided with burners or heaters, a top in one position disposed over the burners or heaters, the stove having a compartment at the rear of the burner or heater area, the rear wall of the compartment being slotted vertically, a carriage movable vertically in the compartment lengthwise of the slot and connected with the top, a bracket on the carriage projecting thru the slot and a relatively stationary bracket on the stove outside the compartment, and spring means outside the compartment connecting the two brackets.

HOWARD H. TURNER.