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A. MOECKER

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MEANS FOR HOLDING RANGE TOP COVERS IN OPEN AND CLOSED POSITIONS

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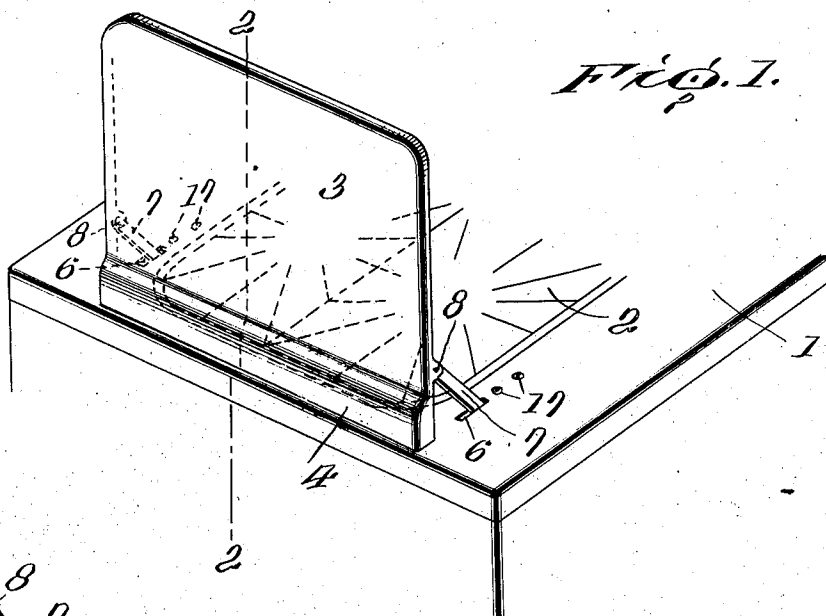


FIG. 1.

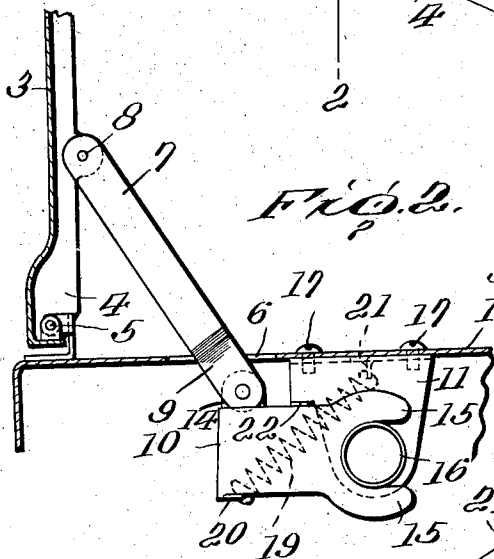


FIG. 2.

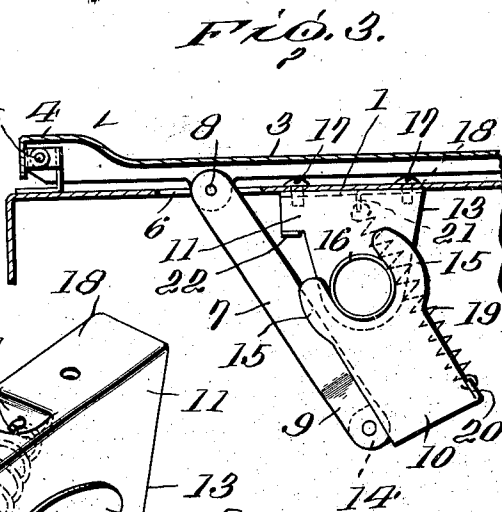


FIG. 3.

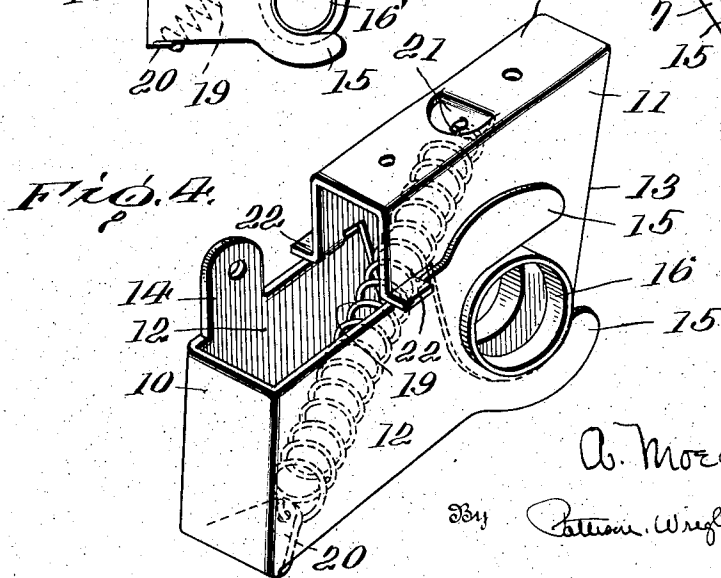


FIG. 4.

Inventor

A. Moecker

By

Patience Wright & Patience
Attorneys

UNITED STATES PATENT OFFICE

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MEANS FOR HOLDING RANGE TOP COVERS
IN OPEN AND CLOSED POSITIONSArnold Moecker, Homewood, Ill., assignor to
American Stove Company, St. Louis, Mo., a
corporation of New Jersey

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7 Claims. (Cl. 126—214)

This invention relates to means for holding range top covers in open and closed positions, and the present invention pertains to the construction which will be presently described.

Cover tops for ranges have their rear edges suitably hinged to the rear edge of the top of the range, whereby the cover can be swung to open and closed positions in respect to the range top, and the object of this improvement is to hold the cover tightly when it is closed, and to hold the cover securely in an upright position when it is opened or raised.

A further object of the present improvement pertains to the simple and effective specific construction of said holding means whereby the above results are accomplished.

In the drawing:

Fig. 1 is a perspective view of a fragmentary portion of a range top showing the hinged cover in a raised position.

Fig. 2 is a vertical transverse sectional view taken on the line 2—2 of Fig. 1, and showing the range cover held in a raised position.

Fig. 3 is a sectional view similar to Fig. 2 except the cover is shown in its closed position.

Fig. 4 is a perspective view of the two main parts which constitute the present improvement.

The top 1 of the range shown in Figs. 1 to 3 is provided as usual with the cooking top openings 2. The swinging cover 3 is shown in its upright position in Figs. 1 and 2 and it has its lower end 4 suitably hinged or pivotally connected at 5 with the rear edge of the range top 1.

The range top as shown in Figs. 1 to 3 is provided near each side thereof with vertical openings 6 through which openings the connecting arms project. The upper ends of these arms 7 are pivoted at 8 to the opposite edges of the said cover 3. As shown in Figs. 2 and 3 the lower ends 9 of the arms 7 are pivotally connected with the movable portion or free end of one of the essential members which comprise the present improvement. This improvement consists of the two U-shaped members 10 and 11. The lower end 9 of the arms 7 are pivotally connected with the free end of the movable part or portion 10. The movable part 10 has its leg portions 12 telescoping the leg portions 13 of the part 11. Said part 11 is a stationary member while the part 10 is a movable member.

There are a pair of parts 10 and 11 located under the opposite sides of the top of the range. The arms 7 located at opposite edges of the cover 3 have their ends pivotally connected with ears 14 which project from the outer or free ends of the movable members 10. The inner ends of the legs 12 of the movable member 10 are bifurcated, that is, they are provided with two ears or arms 15 which extend parallel with each other and these arms embrace outwardly ex-

tending flanges 16 which are formed in the leg or arm portions 13 of the stationary member 11. Said stationary member 11 is attached to the under side of the range top 1 by means of screws 17 which pass through the said range top into the central portion 18 of the U-shaped member 11. By means of the above constructions of the parts 10 and 11 the two parts are adapted to be readily separated and to be readily placed in operative positions by simply telescoping the arms 13 of the stationary member 11 with the arms 12 of the movable member and the ears or arms 15 embracing the flanges 16. This construction can of course be reversed, that is, the ends of the arms of the movable portion 10 may be provided with inwardly extending flanges (not shown) which flanges would enter an open bifurcated portion (not shown) like the flanges 16. This is merely a reversal of this pivotal arrangement. A contracting spring 19 has one end connected with an inturned lip 20 and its opposite end connected with an inturned lip 21 whereby the free end of the member 10 is drawn upwardly by the spring and the upward movement of the movable portion is limited by outwardly extending lips 22 which are formed on the arms 13 at that end toward the closed end of the U-shaped member 10 and these lips engage the arms 12 of the member 10. This limits, as stated, the upward movement of the movable member 10. These lips are preferably formed some distance below the central portion 18 of the member 11 in order to hold the movable part in proper operative position. Of course it will be understood that other means (not shown) could be provided for stopping the movement of the member 10 under the action of the spring. By having the form of stop as here shown the lower end 9 of the arms 7 never rise above the top of the range.

It will be observed that this construction for holding the cover 3 in its upward position and for holding the said cover 3 in its lowered position is accomplished by the fact that when the cover 3 is in its upward position the member 10 is at the left hand side, or the side nearest the said cover, of the pivotal point or flange 16, while when the cover 3 is lowered the pivoted end 9 of the arms 7 are carried downward substantially to the right of the pivotal flange 16. Owing to this arrangement of the parts the spring 19 constantly holds the cover 3 in its upright position and constantly holds the cover 3 in its lowered position. This of course means that the operator would have to move the cover 3 downward until the members reach substantially the position shown in Fig. 3 and when the cover is to be opened it is necessary for the operator to lift upward on the cover and cause the shifting of the pivotal point of the lever 7 to the left

of the flange or pivotal point 16 when the cover is carried and securely held in its upward position.

It is desirable that the cover be held tightly when it is lowered or in its closed position and it is also desirable that the cover after it is lifted be held in its upright position. The device which is herein described effectively performs the above functions.

It will further be observed that the essential parts for holding the cover in its open and its closed positions consists of the two parts 10 and 11 and its spring. Of course it is necessary that there be connection between the cover 3 and the movable part 10 and that connection as is here shown consists of the arms 7.

While I show the arms 7 applied at opposite edges of the cover and also show the operating mechanism at each side of the top of the range it will be understood that only one of these arms and operating mechanisms are necessary to carry out the functions above set forth.

Attention is further directed to the fact that the U-shaped portions 11 when they are attached to the top of the range, are arranged in a position which places the U-shaped members at right angles to the cover 3.

I wish it understood that the foregoing described constructions can be varied without departing from the present invention so long as the variations come within a liberal interpretation of the appended claims.

I claim:

1. In a device for holding a range cover closed and for securely holding it in an open position, comprising a range having a top portion, a support depending from said top portion and immovably connected therewith, a movable portion having one end pivotally connected with said support and extending upward and its opposite end movable to opposite sides of said pivot and means acting to cause the movable portion to swing to opposite sides of said pivot, and means operatively connecting said movable portion and said cover.

2. In a device for holding a range cover in either an open or a closed position, comprising a range having a top portion, a cover for said top portion, a support depending from said top portion and immovably connected therewith, a movable portion having one end pivotally connected with the lower portion of said support and its opposite end movable to opposite sides of said pivot, means passing upward through said top and operatively connecting the said movable part with said cover, and a spring operatively acting to swing said movable portion to opposite sides of said pivot whereby said cover is held in either a closed or an open position.

3. In a device for holding a cover of a range in either an open or a closed position, comprising a range having a top portion, a cover for said top portion, a support depending from said top portion and immovably connected therewith, a movable portion having one end pivotally connected with said support and its opposite end movable to opposite sides of said pivot, and means passing through said top portion and connecting the free end of said movable portion to said cover and a spring having one end operatively connected with said support and its opposite end

operatively connected with the outer end of said movable portion.

4. In a device for holding a cover of a range in either an open or a closed position and securely holding it in either position, comprising two essentially U-shaped telescoping main portions, one of said U-shaped portions inverted and having its central portion attached to the said top portion of the range, and the arms of the U depending from said top portion, the free ends of a second and movable U-shaped portion telescoping the ends of the first said portion, the ends of said portions pivotally connected, a cover for the range, means operatively connecting said cover and said movable portion the ends of said portions pivotally connected, and a spring acting to swing the said movable portion to opposite sides of said pivot, the parts arranged for the purpose set forth.

5. In a device for holding a cover of a range in either an open or a closed position, comprising a range having a top portion, two U-shaped members one of said members depending from the top portion and secured to it and forming a support, a second U-shaped member having its ends telescoping the ends of the said support, a contracting spring operatively connecting the said two U-shaped portions, said telescoping portions pivoted together, a cover for the range, a member operatively connecting the free end of the movable portion to the said cover, said member constructed and operating to shift the pivotal point of said movable portion and said member to opposite sides of the pivotal point of the U-shaped portions when said cover is in its open and closed positions, for the purpose set forth.

6. In a device for holding the cover of a range in either an open or a closed position, comprising a range having a top portion, a cover pivotally connected with said top portion, two U-shaped members located below the top portion one of said members connected with the top portion and forming a support and the other forming a movable member the arms of the two members telescoping and pivoted together, the arms of one of said members being bifurcated and embracing the pivotal point of the said members, an operative connection between the movable member and the cover being such as to cause the movable member to shift the pivotal point of the arm connected with the said cover to opposite sides of the pivotal point of the arms of the U-shaped member, for the purpose set forth.

7. An operating means for holding a range cover in either an open upright or a horizontal closed position consisting of a range having a top portion, two U-shaped members below the top portion one of said members attached to the under side of the top of the range and forming a support and the other U-shaped member having its arms telescoping the arms of said support, the arms of one of said members embracing a pivotal point on the other of said members and a contracting spring acting to hold said arms in engagement with the pivotal point, said spring acting to hold the second member in a position to hold the cover upright or to hold the cover closed when the pivotal point of the connection of the movable member with the said cover is shifted from side to side of the pivotal connection of the arms of the said U-shaped members.

ARNOLD MOECKER.