

B. A. BAXTER.

STOVE DOOR.

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1,072,809.

Patented Sept. 9, 1913.

Fig. 1

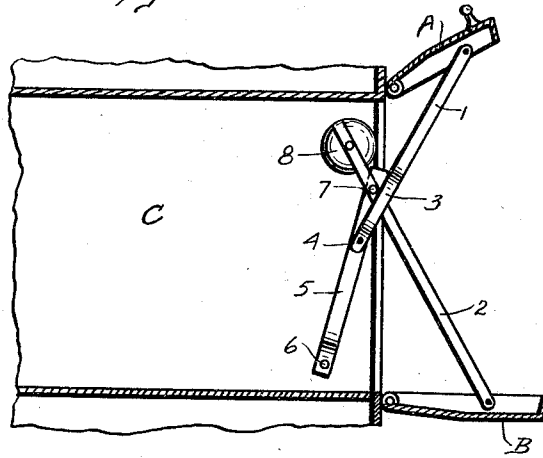
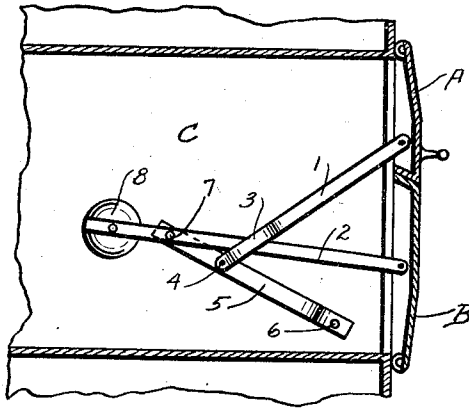


Fig. 2.



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BERRY A. BAXTER, OF MANSFIELD, OHIO.

STOVE-DOOR.

1,072,809.

Specification of Letters Patent.

Patented Sept. 9, 1913.

Application filed December 6, 1912. Serial No. 735,290.

To all whom it may concern:

Be it known that I, BERRY A. BAXTER, a citizen of the United States of America, residing at Mansfield, in the county of Rich-
land and State of Ohio, have invented certain new and useful Improvements in Stove-
Doors, of which the following is a specification.

This invention relates to certain new and
useful improvements in stove doors and relates more particularly to means for positively retaining the stove doors in open or closed position.

The present invention is an improvement on Letters Patent Nos. 682,602 dated August 6, 1907, and 944,475, dated December 28, 1909, which have been granted to me.

The primary object of the present invention is to provide simple and economical means for positively retaining the stove doors in open or closed position, and further to provide means which will allow the doors to be opened or closed with the expenditure of minimum force.

In the drawings: Figure 1 is a vertical sectional view showing the doors in open position; and Fig. 2 is a similar view showing the doors in closed position.

An upper door A and a lower door B are hinged to the stove adjacent to the top and bottom of the oven, so as to completely close the oven opening. A link 1 is pivoted to the door A, and a similar link 2 is pivoted to the door B. The link 1 is bowed at 3 and is pivoted at its inner end at 4 to a bar 5 which latter is pivoted at 6 to the wall C of the oven. The pivotal point 4 of the link 1 is located below the upper end of the bar 5 and said upper end of the bar 5 is pivoted at 7 to a point adjacent the free or upper end of the link 2. A weight 8 is attached to the free or upper end of the link 2 for a purpose now to be described.

When the doors are in open position as depicted in Fig. 1 of the drawings, the weight occupies a position forward of the pivotal point 6 of the bar 5 and consequently exerts downward pressure on the link 2 and upward pressure on the link 1 since the latter is pivoted to the bar 5 and the bar 5 has

downward pressure in an outward direction, exerted thereon by reason of its being connected to the link 2.

When the doors occupy closed position, as illustrated in Fig. 2 of the drawings, the weight 8 exerts downward pressure on the link 2 and also on the upper end of the bar 5 and since the link 1 is pivotally connected to a point on the bar 5 adjacent the upper end of the latter, it will be seen that both of the doors will be held closed by the weight and the described connection with the doors, which exert inward pressure on the doors.

From the above it will be seen that the links are indirectly connected by the pivoted bar 5 and that the several parts provide a compound system of levers which in opening and closing the doors obviate undue friction and allows the doors to be opened or closed with the expenditure of but little pressure, due to the leverage provided by the several parts.

What is claimed is:—

1. In combination with a pair of stove-doors, a link pivoted to each door, a weight on the inner end of one link, and a bar pivoted at its lower end to the stove and adjacent to the free end of the first named link, the inner end of the other link being pivoted to the bar at a point between the bar ends.

2. In combination with a pair of stove-doors, a link for each door pivoted thereto, a weight on the inner end of one link, and a connection between said links and the stove whereby when the doors are open upward pressure will be exerted upon one link and downward pressure will be exerted upon the other link, and when the doors are closed downward pressure will be exerted upon both links to thereby exert inward pressure upon both doors.

3. In combination with the two doors of a stove, a system of levers connected to the doors and a weight included in said system for exerting inward pressure upon both doors when the latter are closed and for exerting downward pressure upon one door and upward pressure upon the other door when the latter are open.

4. In combination, with an upper and a
lower oven door, a link pivoted at its outer
end to the lower door and having a weight
on its inner end, a bar pivoted at its lower
5 end to the stove and also pivoted at its up-
per end to said link adjacent the weight
thereof, and a link pivoted at its outer end
to the upper door and having its lower end

pivoted to said bar at a point beyond the
center thereof.

In testimony whereof I affix my signature
in presence of two witnesses.

BERRY A. BAXTER.

Witnesses:

H. H. SANFORD,

F. C. WIRTZ.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."