

(No Model.)

J. ERBEN.
WARMING CLOSET OR OVEN.

No. 459,199.

Patented Sept. 8, 1891.

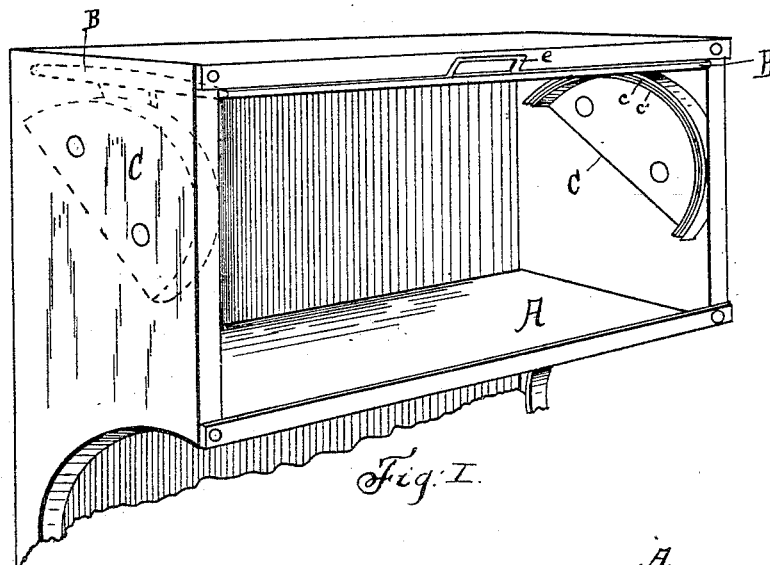


Fig. 1.

Fig. 3.

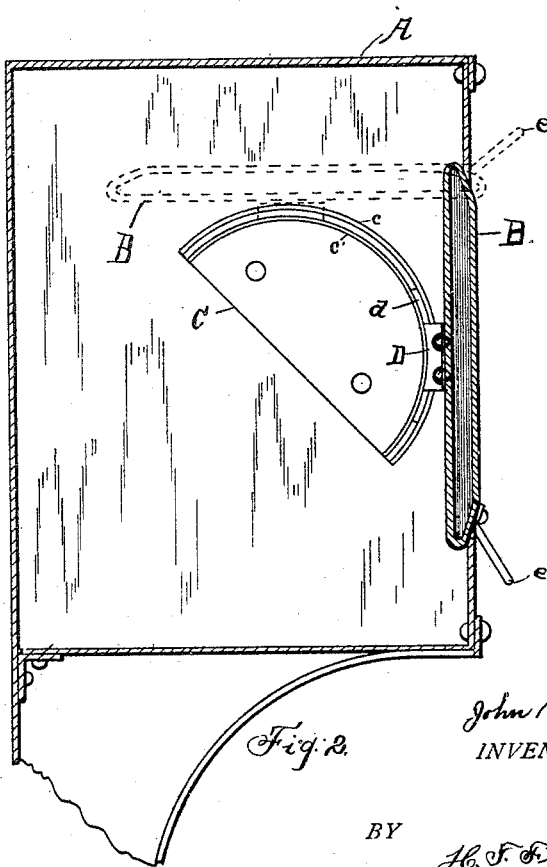
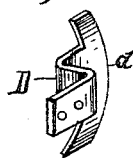


Fig. 2.

WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN ERBEN, OF CLEVELAND, OHIO.

WARMING CLOSET OR OVEN.

SPECIFICATION forming part of Letters Patent No. 459,199, dated September 8, 1891.

Application filed April 23, 1891. Serial No. 390,081. (No model.)

To all whom it may concern:

Be it known that I, JOHN ERBEN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Warming Closets or Ovens; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to doors for warming closets or ovens in stoves and ranges; and the object of the invention is to provide a closet or oven in a stove or range with a door which can be carried bodily into the closet or oven and yet be out of the way, and which will remain open or closed when it is moved to one position or the other. Various devices have been invented to meet the demand for a door which does not swing outward on hinges and which is easily movable from one position to another, and some inventions having this purpose in view show doors which are carried back into the closet or oven; but I am not aware that ever before a construction similar to that herein shown and described, and particularly pointed out in the claims, was known or used.

In the accompanying drawings, Figure 1 is a perspective view of a closet or warming oven provided with my improved construction and showing the door back out of the way. Fig. 2 is a transverse sectional view of the closet, showing the door down or closed, and in dotted lines the position it assumes when open, as seen in Fig. 1. Fig. 3 is a perspective view of one of the door-brackets.

A represents a warming closet or oven such as are commonly used in cooking stoves and ranges, and it is immaterial what kind or variety of stove or range it is, and whether it employs wood, coal, gas, or vapor for cooking purposes. As here shown, the closet or oven is rectangular in outline with straight sides and ends. This requires a straight or flat door, the usual shape, and the object of my invention is to carry the door B up into the closet or oven out of the way of articles set within. This is accomplished by means of a plate C, attached to each end of the closet on the inside thereof, and having, as seen in

Figs. 1 and 2, semicircular inwardly-projecting flanges *c c'*, separated to form a channel or guideway between the flanges. This channel or guideway may have more or less depth, as shall be found necessary to serve the purpose, and the said plate and its flanges are so arranged with respect to a horizontal plane that when the door has been raised, as in Fig. 1, to clear the opening in the closet, it will occupy a position of rest in said guides and not slide back to closing position. The door is provided with brackets D on its inside at the ends, and these brackets have segmental curved wings or flanges *d*, corresponding in curvature to the guide-channels in plates C and adapted to slide therein. In this instance the handle *e* serves also as a stop to limit the movement of the door into the closet; but any other suitable stop may be employed. Obviously the exact reverse of the construction here shown might be employed—that is, the plate C might have a single flange, and the bracket D two flanges, or their equivalent, to work on both sides of said single flange. It is clear that this construction may be modified in more than one way and still be within the spirit and scope of the invention, which is construed to be as broad as a fixed curved guideway and a bracket on the door adapted to engage said guideway and to carry and guide the door in its back and forth movements.

As here shown, the guideways and the brackets on the door are so arranged relatively as to bring the door exactly to perfect closing position when down and to support it at the rear in said position. The curved guide and bracket make it practicable to employ a flat door.

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

1. The closet or oven having fixed curved guideways at its ends and the closet or oven door having brackets to engage said guideways, substantially as described.

2. The closet or oven having plates attached thereto provided with curved guides, in combination with a door having brackets with curved portions to engage and slide on said guides, substantially as described.

3. The closet or oven provided with fixed

plates at its ends, provided each with a flanged curved guideway, in combination with a door having brackets provided with lateral curved flanges engaging said curved guideways, substantially as described.

5 4. A rectangular closet or oven having a double-flanged guideway at each end, in combination with a flat door having brackets at its ends inside provided with curved out-

wardly-extending flanges engaging in the said double-flanged guideway, substantially as described.

Witness my hand to the foregoing specification this 16th day of April, 1891.

JOHN ERBEN.

Witnesses:

H. T. FISHER,

N. L. McLANE.