

E. W. HARVEY.

Oven-Doors for Cooking-Stoves.

No. 157,128.

Patented Nov. 24, 1874.

Fig. 1

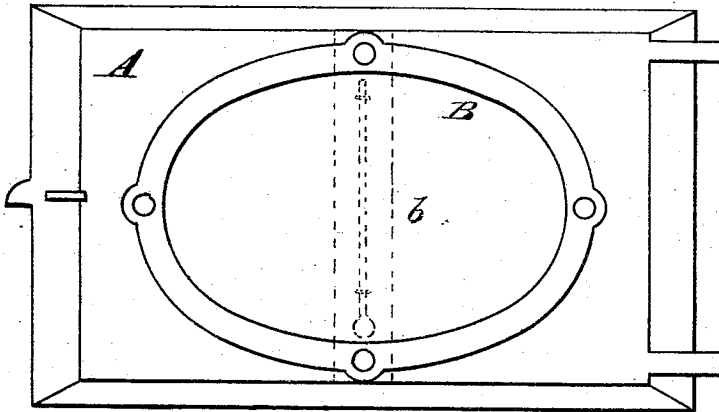


Fig. 2

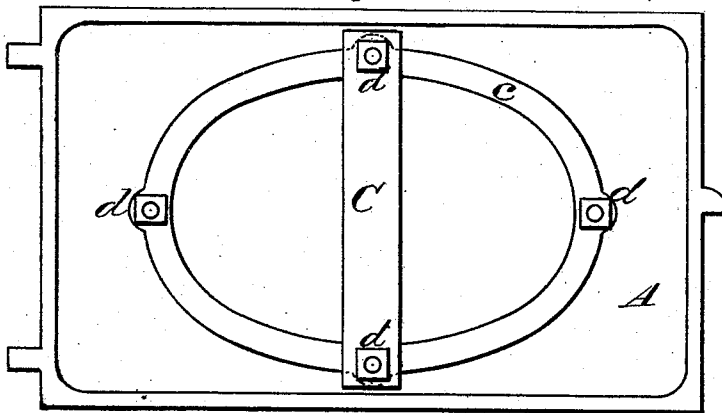
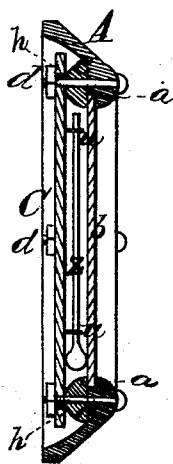


Fig. 3



WITNESSES

E. H. Bates
Robert Everett

INVENTOR

Edwin W. Harvey
Chipman & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

EDWIN W. HARVEY, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN OVEN-DOORS FOR COOKING-STOVES.

Specification forming part of Letters Patent No. **157,128**, dated November 24, 1874; application filed October 24, 1874.

To all whom it may concern:

Be it known that I, EDWIN W. HARVEY, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and valuable Improvement in Oven-Doors for Cooking-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a rear view of my oven-door. Fig. 2 is a front view of the same, and Fig. 3 is a sectional view.

This invention has relation to cooking-stoves; and it consists in the construction and novel arrangement of the oven-door having a central aperture, the glass panel, the metallic rim having a vertical transverse bar, and the thermometer seated upon said bar, facing the glass, so that, while it is entirely visible from the outside of the stove, it is located within the oven, and is protected by the transverse bar, to which it is secured.

In the accompanying drawings, the letter A designates the oven-door, made concave on the inside and convex on the outside, in the ordinary manner. The central portion of said door is open, as shown at B, and the margin *a* of the aperture is angularly recessed to form a seat for the glass *b*, which is secured in place by means of an inside rim or bead, *c*, of metal, which is bolted, as shown at *d d*, to the door. C represents a vertical bar, which is provided on its face with a thermometric scale, and at its ends with holes *h*, whereby connection is made with the fastening-bolts which secure the inside bead *b* to the door. If the bar is made of metal, it is desirable that these bolt-holes should be a little elongated to provide for the expansion and contraction of the metal under varying temperatures. To the scale-face of

this bar C is attached a thermometer, Z, by means of looped wires *u* or other suitable devices, longitudinally. When in position the scale-face of the bar, with the thermometer, is turned toward the glazing, and the bar is secured, by the bolts above mentioned, in a vertical position transverse of the glazed aperture, so that, while it can be readily observed through the glass, it will be protected in rear by the bar C, and will therefore not be liable to accidental fracture, when the oven-door is closed, by contact with the edge of a pan or other utensil placed inside.

The position of the thermometer is thought to be well chosen, immediately behind and near the glazing, as the light will render it clearly visible, while no portion of the thermometer will be outside of the oven, or even in contact with the external wall thereof.

The object of this invention is to facilitate the labor of baking, and to shorten the time required in the operation, there being no necessity for opening the door either to observe the progress of the baking or to note the temperature of the oven.

I am well aware that a glazed oven-door is not new, and that it is not new to provide an oven with a thermometer. Hence I do not claim these inventions, broadly.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the oven-door having a central aperture to receive the glazing, of the raised rim bead *b*, the thermometer Z, and the sealed seat-bar C, bearing said thermometer, and secured diametrically across said rim-bead to said oven-door, as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWIN W. HARVEY.

Witnesses:

E. H. BUCKLAND,

A. A. BUCKLAND.