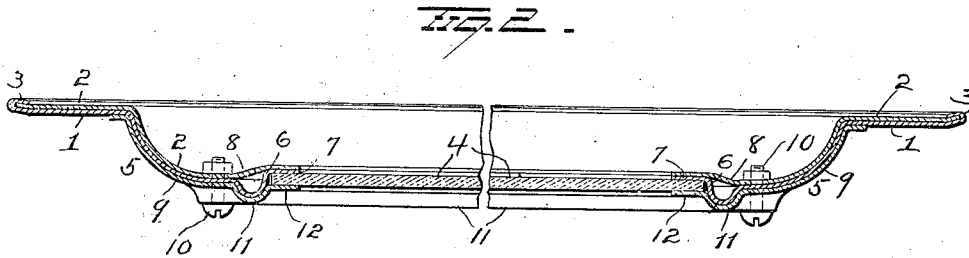
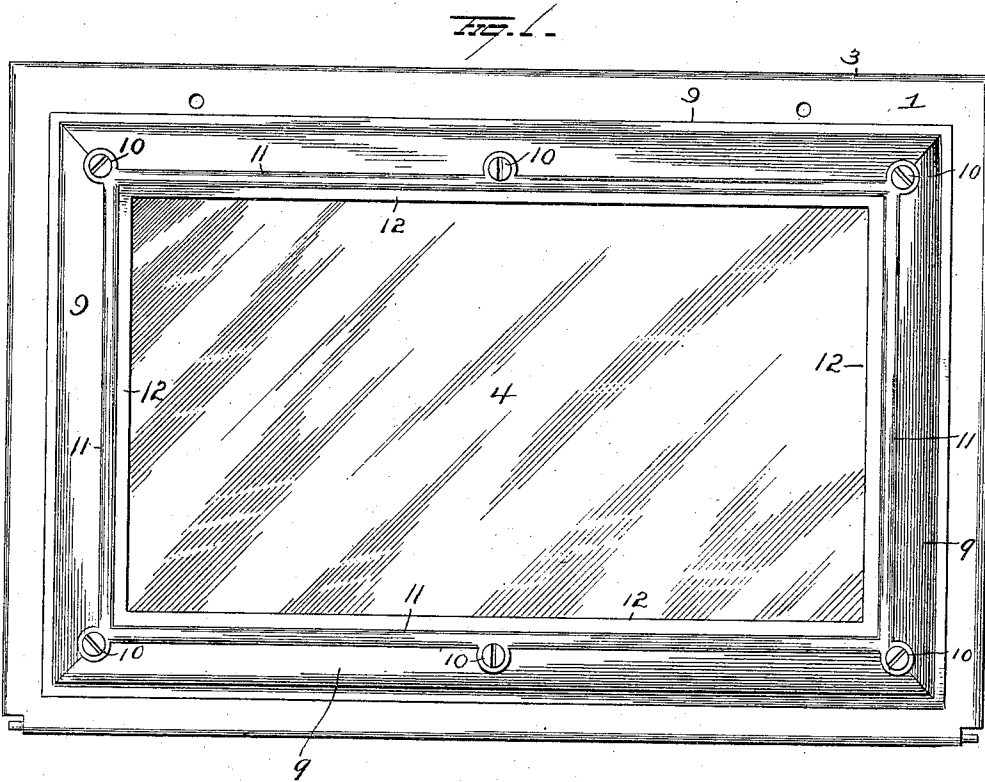


W. E. HUENEFELD.
OVEN DOOR.
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966,017.

Patented Aug. 2, 1910.



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OVEN-DOOR.

966,017.

Specification of Letters Patent.

Patented Aug. 2, 1910.

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To all whom it may concern:

Be it known that I, WALTER E. HUENEFELD, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Oven-Doors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in oven doors,—the object of the invention being to provide simple and efficient devices for retaining a glass panel in place in an oven door without necessity for the use of packing.

With this object in view the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claim.

In the accompanying drawings, Figure 1 is a face view of an oven door embodying my improvements. Fig. 2 is a sectional view.

1 represents the door frame which is preferably made of sheet metal and provided with a lining 2 held in place by means of flanges 3 at the edges of the frame 1.

In the drawings, I have shown the door of rectangular form and having a similarly shaped opening which is closed as presently explained by a glass panel 4. The metal of the frame 1 and its lining is bulged outwardly in curved formation around the opening, as is shown at 5. Near the inner edges of the bulged portions of the frame, the latter is provided with beads 6 and at the inner edges of the latter, flanges 7 are formed and constitute seats for the glass panel,—the beads forming abutments for the edges of said panel as clearly shown in Fig. 2. At the outer edges of the beads, the lining sheet 2 is bent in an inclined direction as shown at 8 Fig. 2 and then inwardly so as to lie directly under the seat flanges 7 surrounding the opening in the door.

A retaining frame 9 is placed on the outside of the door frame 1 and is secured to the latter by means of a series of bolts 10. The retaining frame comprises four members united at their ends to form a rectangular frame which may as shown be made in a single piece. The members of the retaining frame conform throughout the greater portion of their width to the contour of the bulged portions of the door frame and are made with beads 11 disposed over the beads 6 of the latter. From the beads 11, flanges 12 project inwardly and bear against the outer face of the glass panel near the edges thereof and directly in front of the seat flanges 7 of the door frame.

By constructing the parts above described of sheet metal, the flanges or seats 7 and 12 which engage the glass panel will be sufficiently yielding to prevent injury to the glass due to expansion and contraction of the parts, and necessity for packing will be avoided.

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

In an oven door, the combination of a door frame provided with an outwardly bulged portion having an opening, said outwardly bulged portion provided with outwardly projecting beads near the inner edges thereof and with flanges at the inner edges of said beads, a glass panel resting against the outer surface of said flanges, and a retaining frame conforming in shape to said bulged portion, said retaining frame secured to the door frame and provided at the inner edges of its members with flanges bearing against the outer face of the glass panel.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WALTER E. HUENEFELD.

Witnesses:

R. S. FERGUSON,
S. G. NOTTINGHAM.