

W. E. HUENEFELD.
DOOR FOR OVENS.
APPLICATION FILED MAR. 5, 1910.

966,018.

Patented Aug. 2, 1910.

Fig. 1.

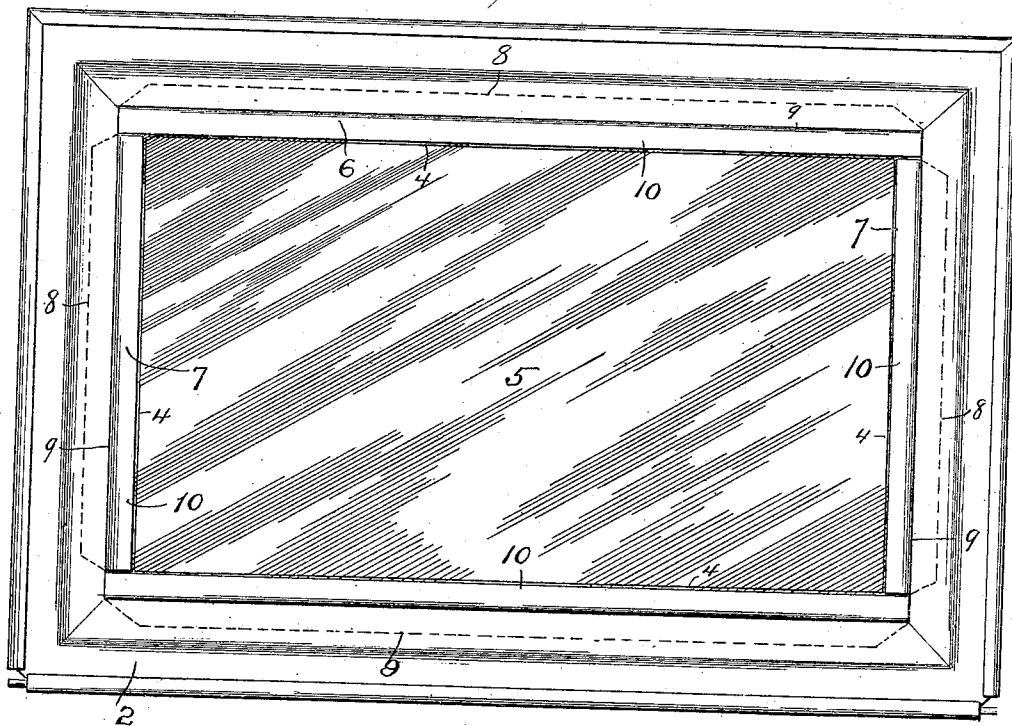


Fig. 2.

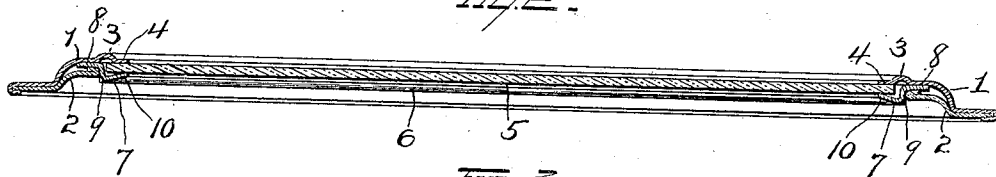
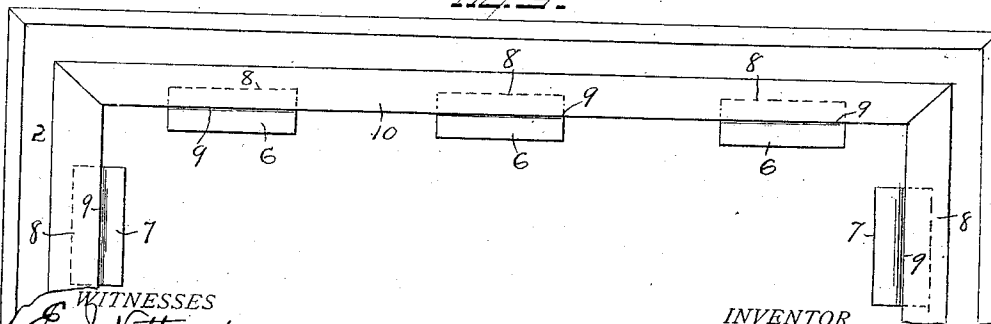


Fig. 3.



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WALTER E. HUENEFELD, OF CINCINNATI, OHIO, ASSIGNOR TO THE E. H. HUENEFELD COMPANY, OF CINCINNATI, OHIO.

DOOR FOR OVENS.

966,018.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed March 5, 1910. Serial No. 547,567.

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 Doors for Ovens; 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 doors for ovens and more particularly to such as embody in their construction a transparent panel of glass or other suitable material.

The object of my present invention is to provide simple and efficient means for holding the glass panel in place and to so construct such means as to obviate the use of bolts or rivets,—at the same time permitting the glass to be quickly secured in position and easily replaced when broken.

A further object is to provide holding means having the characteristics above mentioned and which will also be sufficiently yielding without the use of interposed packing material, to avoid liability of breakage of the glass from the effects of heat.

With these objects in view the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is a rear face view of an oven door showing the application of my improvements thereto, Fig. 2 is a sectional view, and Fig. 3 is a view of a modification.

The door comprises an outer sheet 1 and an inner lining sheet 2 made in the form of a rectangular frame having a bulged portion 3 formed around the opening formed by said frame. The lining sheet 2 lies parallel with the front sheet 1 and the outer edges of the latter are turned over the former. The opening formed by the outer sheet 1 is somewhat smaller than the opening formed by the inner sheet so that the inner edges of the outer sheet will project inwardly beyond the inner edges of the lining sheet and form seats 4 against which the outer face of a glass panel 5 rests in proximity to the edges thereof. The glass panel 5 is held in position by means of a series of retaining strips 6, 6 and 7, 7. Each of these retain-

ing strips consists of sheet metal which is bent to form a flange 8, a shoulder 9 disposed approximately at right angles to the flange 8, and a flange or lip 10 projecting from the free edge of the shoulder 9 in a diagonal direction so that it will be caused to bear against the glass panel with a yielding pressure a short distance from the edge of the latter. The flange 8 of each retaining strip is inserted between the front sheet 1 and the lining sheet 2 and the shoulder 9 will become disposed parallel with the edge of the glass panel 5, while the inclined lip or flange 10 will bear against the glass in the manner above explained. The retaining strips 6, 6, have a length practically equal to the length of the opening formed by the lining sheet, while the retaining strips 7, 7, occupy positions between the strips 6, 6. The opening formed by the lining sheet, is slightly greater than the dimensions of the glass panel to be employed, so as to permit sufficient space between an edge of said glass panel and the adjacent edge of the lining sheet, to permit the insertion of the retaining strips.

From the construction and arrangement of the parts above described, it will be observed that when the parts have been assembled, the retaining strips will hold the glass panel securely in place with yielding pressure and also that the edges of the glass panel will constitute abutments which cooperate with the shoulders 9 of the retaining strips to prevent displacement of the latter. Should the glass panel become broken, the broken pieces can be readily removed and when this has been done the retaining strips can at once be removed. A new panel can then be placed in position and the parts assembled as hereinbefore described.

While I have shown and described the retaining strips bearing against the glass panel practically throughout the length and breadth of the same,—these retaining strips may be made shorter and two or more such short strips employed along each edge of the panel without seriously detracting from their efficiency.

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

1. In a device of the character described, the combination with an outer sheet, a lining sheet and a glass panel, of a retaining strip

having a flange or member disposed between
said sheets and a member disposed parallel
with the adjacent edge of the glass panel,
and said retaining strip also having a flange
5 or lip to bear with yielding pressure against
one face of said glass panel, one of said
sheets forming a seat for the opposite face
of the glass panel near the edge of the latter.
2. An oven door comprising an outer
10 sheet, a lining sheet, the former projecting
inwardly beyond the inner edges of the lat-
ter and affording seats, a glass panel resting
at its edge portions against said seats, and
a series of retaining strips, each of said re-
15 taining strips having a flange or member en-

tering between said outer and lining sheets
and also having a member or shoulder dis-
posed parallel with the adjacent edge of
the glass panel and each of said retaining
strips also having a flange or lip projecting 20
from the free edge of the shoulder portion
of the strip and engaging the glass panel a
short distance removed from its edge.

In testimony whereof, I have signed this
specification in the presence of two subscrib- 25
ing witnesses.

WALTER E. HUENEFELD.

Witnesses:

A. N. MITCHELL,
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