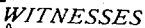
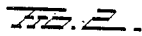


OVEN DOOR.

Patented Dec. 14, 1909.

943,548.



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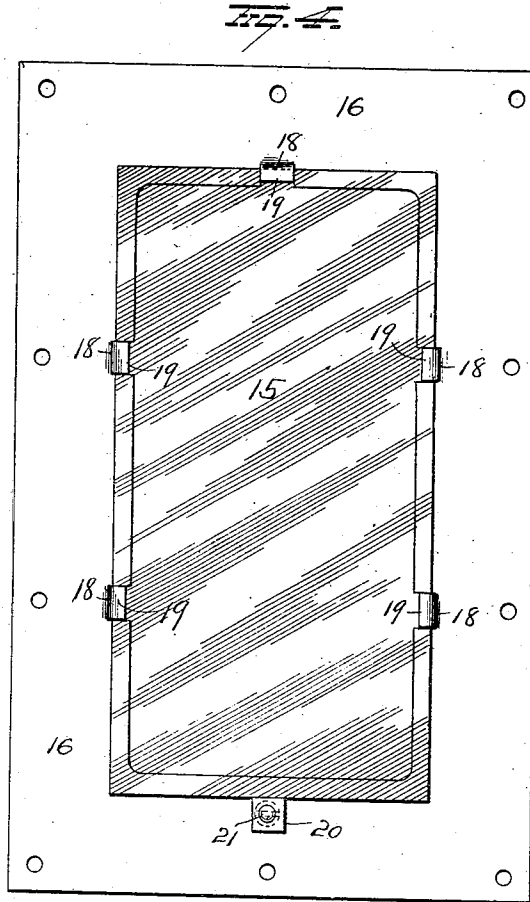
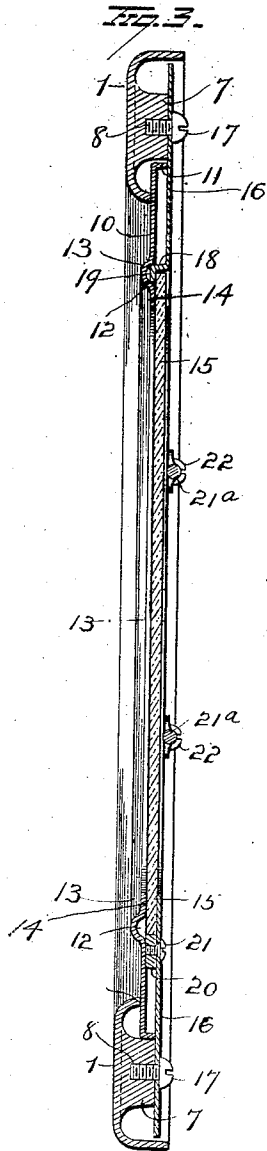
OVEN DOOR.

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2 SHEETS—SHEET 2.

943,548.



WITNESSES

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UNITED STATES PATENT OFFICE.

ERNST H. HUENEFELD, OF CINCINNATI, OHIO.

OVEN-DOOR.

43,548.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed April 18, 1909. Serial No. 490,351.

To all whom it may concern:

Be it known that I, ERNST H. 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.

My invention relates to improvements in doors for ovens such as are adaptable for use on the ovens of ranges or gas stoves or for portable ovens,—the object of the invention being to provide a door structure having a transparent panel and to secure said panel in place in such manner that it will be protected from breakage due to unequal expansion and contraction of parts.

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 claims.

In the accompanying drawings, Figure 1 is a front elevation of a door embodying my improvements, Fig. 2 is a rear view, Fig. 3 is a longitudinal section and Fig. 4 is a face view of the plate 16 and the glass panel.

1 represents the main frame of the door and consists of a casting provided at its lower corners with pintles 2 by means of which the door can be hinged to the front plate of an oven. The upper member of the frame 1 is made intermediate of its length with an enlarged portion 3 which forms a seat for a bracket 4 and this bracket carries a suitable latch 5 and a handle 6 to operate said latch and to manipulate the door. The rear face of the frame 1 is provided near its corners and also at intermediate points with bosses 7 having threaded sockets 8 for the reception of screws. Ledges or seats 9 are formed around the inner edges of the frame 1 for the accommodation of a sheet metal frame 10. This frame 10 may be provided at its outer edges with flanges 11 which abut against the intermediate bosses 7, and in this manner the sheet metal frame 10 is held against displacement. The frame 10 is made in its rear face near its inner edges with grooves 12,—said grooves causing the appearance on the exposed outer face of the sheet metal frame 10, of ribs or heads 13. The inner edges of the sheet metal frame

10 adjacent to the grooves 12 constitute a seat 14 for a glass panel 15.

A rear frame plate 16 fits within the main frame 1 and is provided with a series of holes for the passage of screws 17 which enter the threaded sockets 8 of the bosses 7 for the purpose of holding said sheet metal frame plate in place. The sheet metal frame plate 16 is provided near its upper and lower inner edges and near one inner end edge with lugs 18 which project in a direction toward the sheet metal frame 10 and at their free ends, said lugs are provided with lips 19 which overhang the upper and lower edges and one end of the glass panel 15. This glass panel may be slid into place from one end of the frame plate 16 so as to become disposed under the lips 19 of the lugs 18 and will be held in position by means of a removable stop. This stop may consist of a nut 20 on a screw 21 which passes through the frame plate 16 near the inner edge at one end thereof. When the glass panel shall have been attached to the frame plate 16 in the manner above explained, the latter will be reversed on the frame 1 so that the glass panel will be confined between the two sheet metal frames 10 and 16 and so that the lips 19 on the lugs 18 will enter the grooves or recesses 12 near the inner edges of the frame 10.

Rods 21^a extend across the opening of the rear frame plate and the glass panel in said opening and the ends of said rods are made with perforations for the passage of screws 22, said screws also passing through holes in the rear frame plate and entering threaded sockets 8 of bosses 7.

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

1. In an oven door, the combination with a main frame, of two sheet metal frames secured to the main frame, a glass panel confined between said sheet metal frames and one of said sheet metal frames provided with lugs projecting toward the other sheet metal frame and having lips at their free edges overhanging the edge portions of the glass panel.

2. In an oven door, the combination with a main frame, of two sheet metal frames, one of said sheet metal frames having grooves or recesses in its rear face, a glass panel confined between said sheet metal frames, and

the other sheet metal frame having lugs provided at their free ends with lips which engage the edge portions of the glass panel and enter the grooves or recesses of the first mentioned sheet metal frame.

3. In an oven door, the combination with a main frame, of two sheet metal frames, a glass panel confined between said sheet metal frames, one of said sheet metal frames provided with lugs near the upper and lower edges and one end of the inner portion of said frame, each of said lugs provided at its

free end with a lip which overhangs the adjacent edge portion of the glass panel, and a removable stop near one inner edge of said sheet metal frame and adapted to engage one end of the glass panel.

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

ERNST H. HUENEFELD.

Witnesses:

W. E. HUENEFELD,
JOHN R. CARTER.