

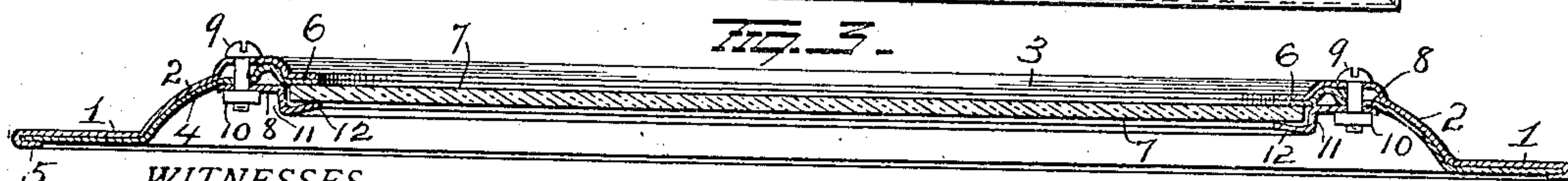
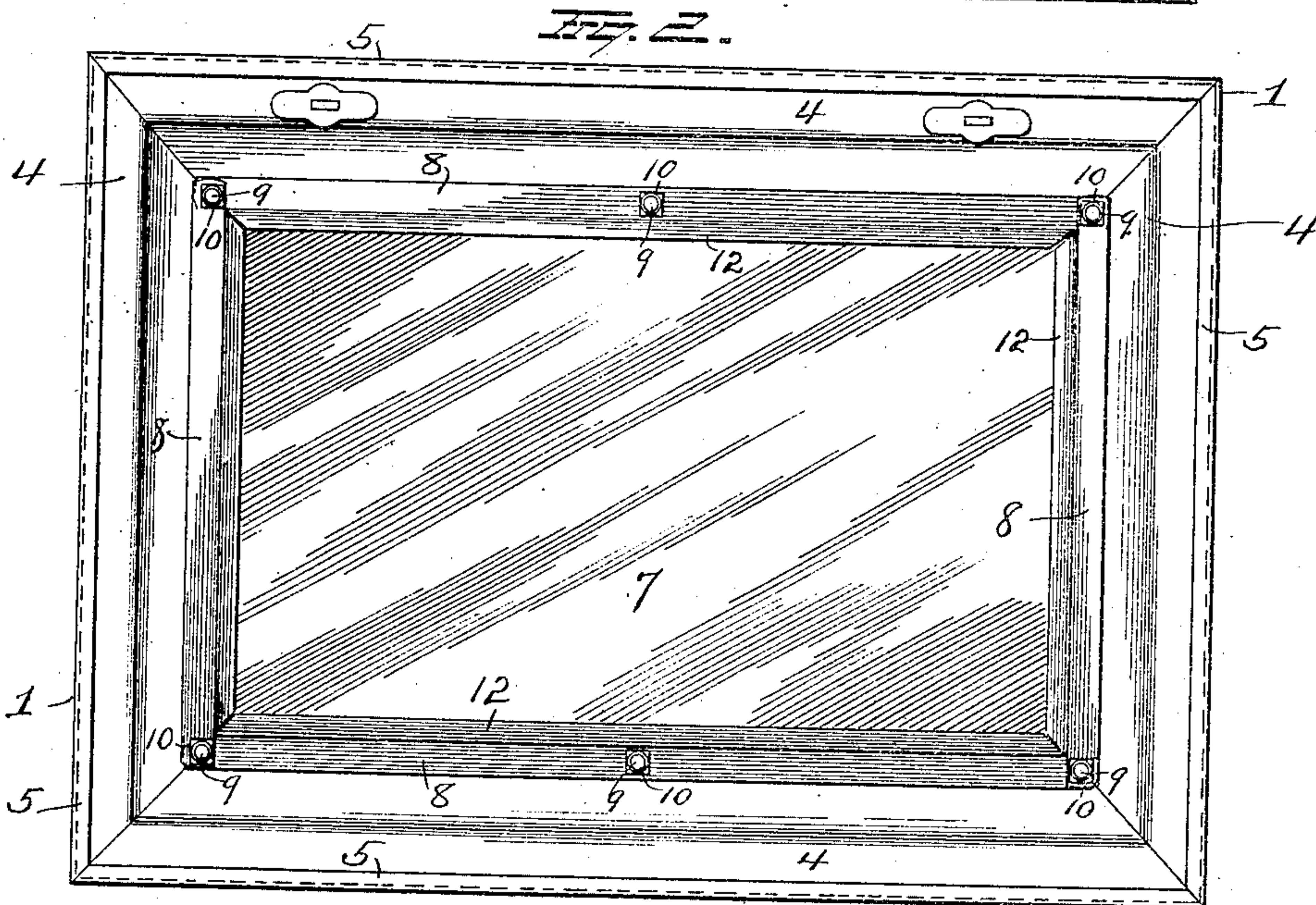
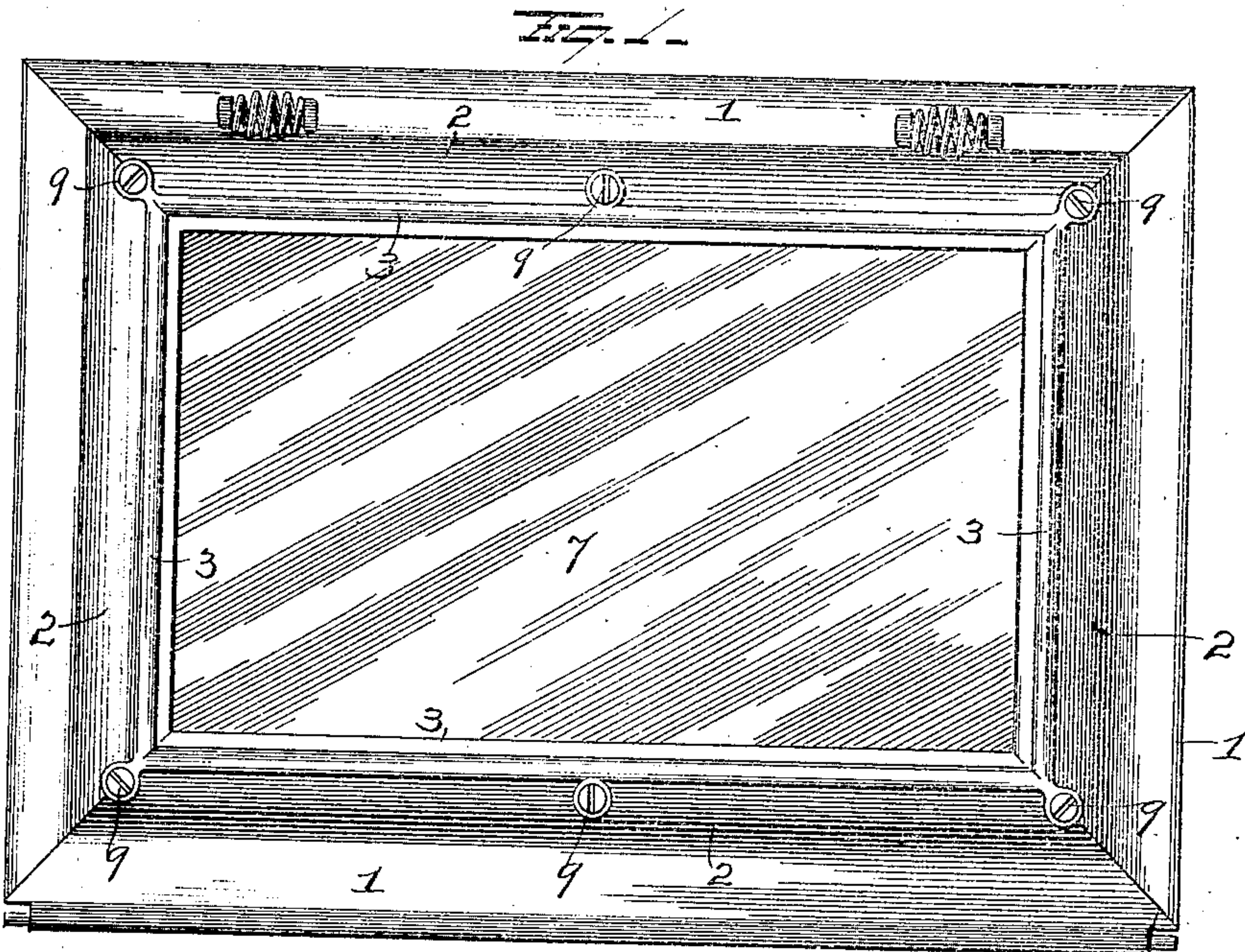
E. H. HUENEFELD.

OVEN DOOR.

APPLICATION FILED APR. 16, 1909.

Patented Dec. 14, 1909.

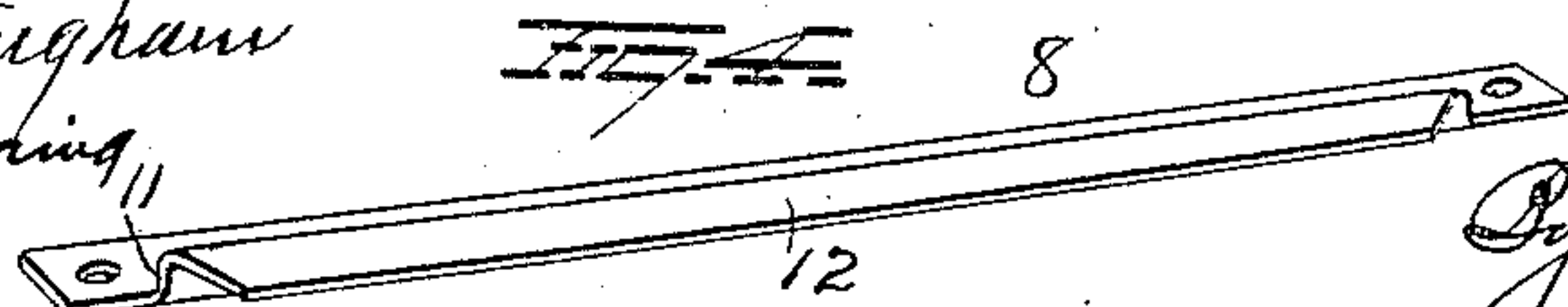
943,549.



WITNESSES
A. Nottingham
G. J. Downing

INVENTOR

E. H. Huenefeld
By A. A. Seymour
Attorney



UNITED STATES PATENT OFFICE.

ERNST H. HUENEFELD, OF CINCINNATI, OHIO.

OVEN-DOOR.

943,549.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed April 16, 1909. Serial No. 490,352.

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-
5 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.

10 This invention relates to improvements in doors for ovens and more particularly to such doors as are adaptable for use on portable ovens or the ovens of ranges of various types,—the object of the invention being to
15 provide a simple structure having a glass panel which can be easily and quickly secured in place and which will be held in place without the use of packing strips, in such manner as to reduce liability of break-
20 age from the effect of heat, to a minimum.

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
25 claims.

In the accompanying drawings, Figure 1 is a front elevation of an oven door embodying my improvements. Fig. 2 is a rear view,
30 Fig. 3 is a longitudinal section and Fig. 4 is a detail view of one of the strips 8.

1 represents a sheet metal frame, the inner portion of which is depressed so as to form outwardly-bulging parts 2 which give
35 the frame an ornamental appearance. The bulging parts 2 of the frame may be provided near their inner edges with beads 3 to improve the appearance of the door. The frame 1 is provided with a lining 4 preferably of tin or similar bright metal and this
40 lining is held in place by overlapping edges 5 of the sheet metal frame 1,—said lining also conforming to the contour of said frame. The inner edge portions of the lining 4 constitute seats 6 for the edge portions of a glass panel 7. For the purpose of retaining the glass panel 7 in position,
45 strips 8 of sheet metal are employed and these strips overlap at the corners of the frame so that they can be secured together and to the frame by means of screws 9. The heads of these screws may be exposed on the outer face of frame 1 and are adapted at their rear ends for the reception of nuts 10.
50 Each sheet metal strip 8 is provided at

its inner edge with a flange 11 projecting therefrom at right angles and adapted to be engaged by the adjacent edge of the glass panel 7 so as to prevent any sliding movement of the latter. The flange 11 of each
60 strip is provided at its free edge with a lip 12 which engages the glass panel near the edge thereof. The glass panel 7 is thus confined at its edges between the seats 6 and the lips 12. The flanges 11 constitute shoulders
65 or abutments for the edges of the glass panel and extend throughout the entire length of said edges while the lips 12 engage the rear face of the glass panel all around the edges of said glass panel.

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

1. An oven door, comprising a sheet metal frame provided with a seat at the inner edge
75 of its rear face, a glass panel having its edge portions resting on said seat, and strips secured to said frame and each having a shoulder forming an abutment for the edge of the glass panel, and also having a lip projecting inwardly from said shoulder and
80 toward the glass panel and forming at its edge a seat engaging the rear face of the glass panel a short distance from the edge of the latter.

2. An oven door, comprising a sheet metal frame provided at the inner edges of its rear face with seats, a glass panel having its edge portions mounted on said seats, a series of sheet metal strips having overlapping
85 end portions secured to said frame, each of said strips provided at its inner edge with a flange constituting an abutment for the adjacent edge of the glass panel, and a lip at the free edge of each of said flanges, each of said lips projecting toward the glass panel and forming at its edge a seat engaging the rear face of the glass panel a short distance removed from the edge of the latter.

3. An oven door, comprising a sheet metal
100 frame having a seat at the inner edge of its rear face, a glass panel resting against said seat and a sheet metal fastening device having an abutment for the adjacent edge of the glass panel and a lip projecting from
105 said abutment toward the glass panel and forming at its edge a seat engaging the rear face of the glass panel a short distance removed from its edge.

4. An oven door, comprising a sheet metal 110

frame having seats at the inner edges of
its rear face, a glass panel resting against
said seats, and fastening means for said
glass panel, said fastening means compris-
5 ing a sheet metal frame having shoulders
along the edges of its respective members to
form abutments for the edges of the glass
panel and lips projecting inwardly from the
shoulders and toward the glass panel and
10 forming at their edges seats engaging the

rear face of the glass panel short distances
removed from the free edges of the latter.

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

ERNST H. HUENEFELD.

Witnesses:

H. E. HUENEFELD,
JOHN R. CARTER.