L. STOCKSTROM.

OVEN DOOR.

APPLICATION FILED MAR. 9, 1912.

1,108,810. Patented Aug. 25, 1914.

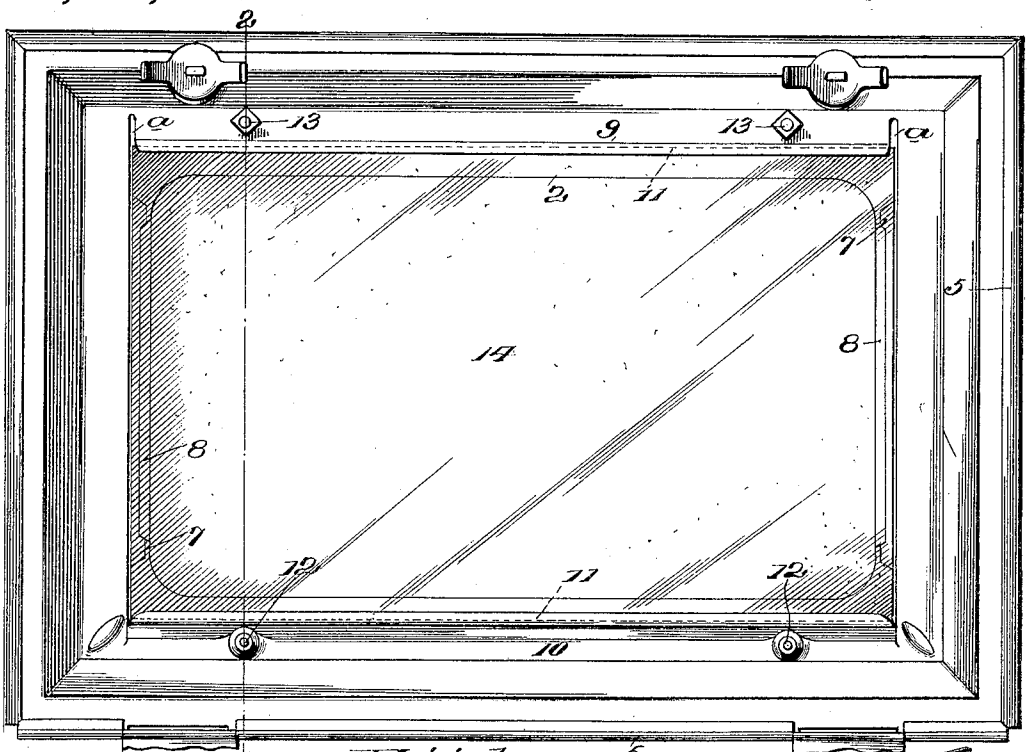


Fig. 1.

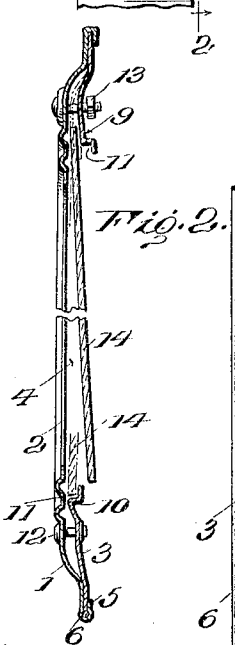
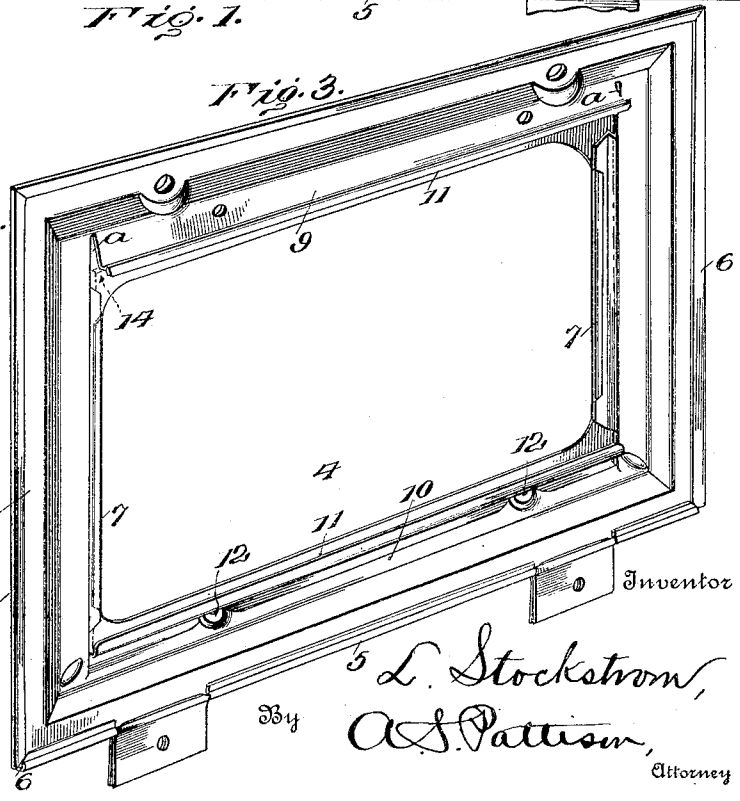


Fig. 2.

Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

LOUIS STOCKSTROM, OF ST. LOUIS, MISSOURI, ASSIGNOR TO AMERICAN STOVE COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF NEW JERSEY.

OVEN-DOOR.

1,108,810. Specification of Letters Patent. **Patented Aug. 25, 1914.**

Application filed March 9, 1912. Serial No. 682,707.

To all whom it may concern:

Be it known that I, LOUIS STOCKSTROM, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Oven-Doors, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in oven doors, and it pertains to that type of door in which a pane of glass is set, whereby it constitutes what might be termed a glass door, through which the cook may observe the article as it is cooking.

My present invention has in view the securing of the door lining at its outer edges to the door frame, the inner edge of the lining constructed to hold the glass, one of the integral inner edges of the lining made movable out of its normal position to permit one edge of the glass to pass thereunder at an angle beyond the normal position of the glass, to enable the glass to be placed in its permanent plane, and then moved edgewise under the opposite edge of the lining to its normal position, and held there by bringing the said integral movable edge of the lining to its normal position and holding it there.

My present invention also pertains to details of construction which will be fully described hereinafter and particularly pointed out in the claims.

The primary object of my invention is to provide a simple, cheap and effective manner of attachably and detachably holding a glass pane in an oven door, by having an integral inner edge of the lining movable to permit the convenient and ready attachment of a pane of glass between the inner edges of the lining and the door frame itself.

In the accompanying drawings: Figure 1 is an inner plan view of an oven door showing my improved lining secured in place thereon, and holding a pane of glass. Fig. 2 is a sectional view on the line 2—2 of Fig. 1. Fig. 3 is a detached perspective view of my improved combined door lining and glass holder.

Referring now to the drawing in which like reference characters denote the same parts, 1 is a sheet metal rectangular door-frame, which is provided with a rectangular opening 2.

My improved lining comprises a rectangular sheet metal frame, preferably of tin, and it is provided with a rectangular opening 4 of approximately the same size as the opening 2 in the door-frame 1. This lining is placed at the inner side of the door-frame and is preferably permanently secured thereto by turning the outer edge of the frame 1 around the outer edge 6 of the lining, as shown at 5. The inner end edges of the door-frame are turned around the adjacent inner end edges 7 of the lining as at 8 to permanently connect them, and hold them in substantially the same plane, while the inner side edges 9 and 10 are provided with L-shaped steps 11, which places the said edges in a plane a sufficient distance away from the door frame to receive the edges of a pane of glass 14, between the said edges and the door-frame, and form shoulders or steps for holding the glass in its normal position. Rivets 12 permanently hold the inner side edge 10 in a fixed position in respect to the adjacent inner edge of the door-frame, while the opposite inner side edge 9 of the lining is movable toward and away from the door-frame. To permit this movement the lining is provided with the outwardly extending slots *a*. This edge 9 is adjustable toward and away from the door-frame by means of the bolts and adjustable nuts 13.

From the foregoing it will be observed that the inner side edges 9 and 10 of the lining are in a plane inside of the plane of the end edges 7, a distance equal to the thickness of the glass pane 14, and that the glass pane is located in the plane between the inner side edges 9 and 10 and the inner end edges of the lining.

To place a glass pane in position, the nuts and bolts 13 are loosened or adjusted to permit the inner side edge 9 of the lining to move away from the door frame 1 and permit the side edge of the glass to pass thereunder, as shown in Fig. 2, a distance sufficient to carry the opposite side edge of the glass pane past the inner side edge 10 of the lining. When the glass pane has reached this position the free edge of the glass pane is pushed inward and moved edgewise under the stepped portion 11 of the edge 10 of the lining. The glass pane and the edge of the lining will then assume the position shown in dotted lines Fig. 2, the edge 9 of the lining being drawn to the said position by the adjustable nut and bolt, thereby clamping the glass pane in position between the shoul-

ders formed by the L-shaped or stepped portions 11 of the lining edges 9 and 10. A cracked or damaged glass pane by this construction can also be readily removed by loosening the nuts and bolts 13 to permit the edge of the glass pane to slide edgewise between the edge 9 of the lining and the door frame 1, which will permit the pane to be removed by the reverse of the operations required to place a good pane in position.

From the foregoing description, it will be observed that in my improvement the lining is permanently attached to the door frame and serves as a lining therefor, while at the same time it permits a pane of glass to be placed and clamped between opposite edges of the lining of the door frame, by having one or more of the edges of the lining movable away from and toward the door frame.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. An improved oven door comprising a door frame having an opening, a door frame lining having a correspondingly shaped opening, a glass panel, the outer edges of the lining and door frame connected, the opposite inner edges of the door frame opening connected to the adjacent edges of the lining opening, the other opposite inner edges of the lining opening normally of a distance away from the door frame to admit the entrance of the glass panel, and one of said inner edges flexible toward and away from the door frame.

2. An oven door comprising a door-frame having an opening, a door-frame lining having a correspondingly-shaped opening, a glass panel, the outer edges of the lining and the door-frame connected, two integral opposite inner edges of the lining opening having outwardly extending shoulders, the outer edges of the said shoulders separated from the door-frame to admit the entrance of the glass panel between them and the adjacent edges of the door-frame, one of the said shoulders adjustable toward and away from the door-frame and means for holding said shoulder in its adjusted position.

3. An improved oven door comprising a door-frame having an opening, a lining having a correspondingly shaped opening, a glass panel, the outer edges of the lining and the door-frame connected, two integral opposite inner edges of the lining opening having outwardly extending shoulders, the outer edges of the said shoulders separated from the door-frame to admit the entrance of the glass panel between them and the adjacent edges of the door-frame, one of the said shouldered edges of the lining slit transverse the shoulder, the said slits permitting the edge of the lining to be adjusted toward and away from the door-frame for the purpose described, and means for holding said slit edge and its shoulder in their adjusted positions.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

LOUIS STOCKSTROM.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."