

(No Model.)

M. L. EVEREST.
OVEN DOOR FOR COOKING STOVES OR RANGES.

No. 572,199.

Patented Dec. 1, 1896.

Fig. 1.

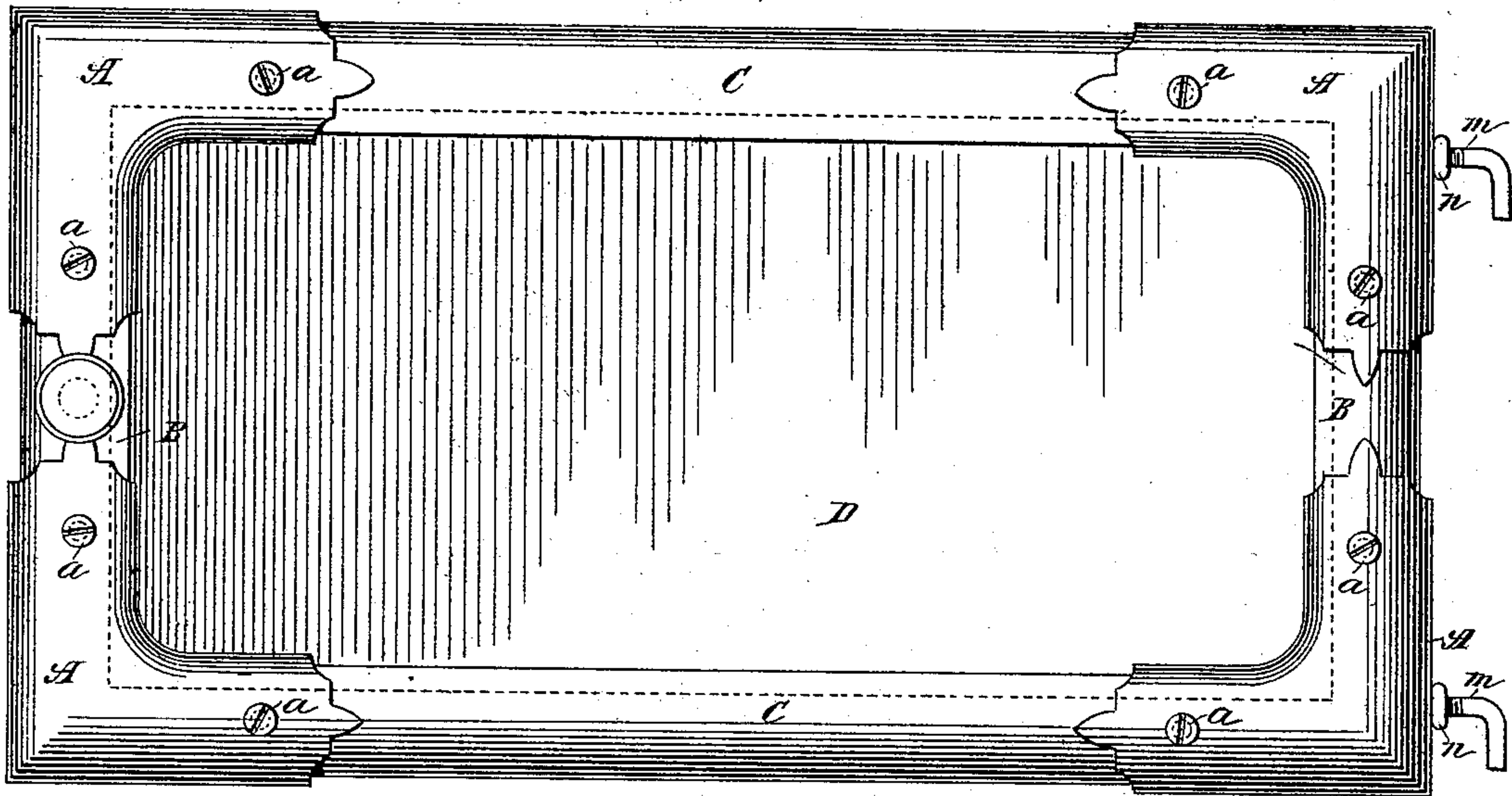


Fig. 2.

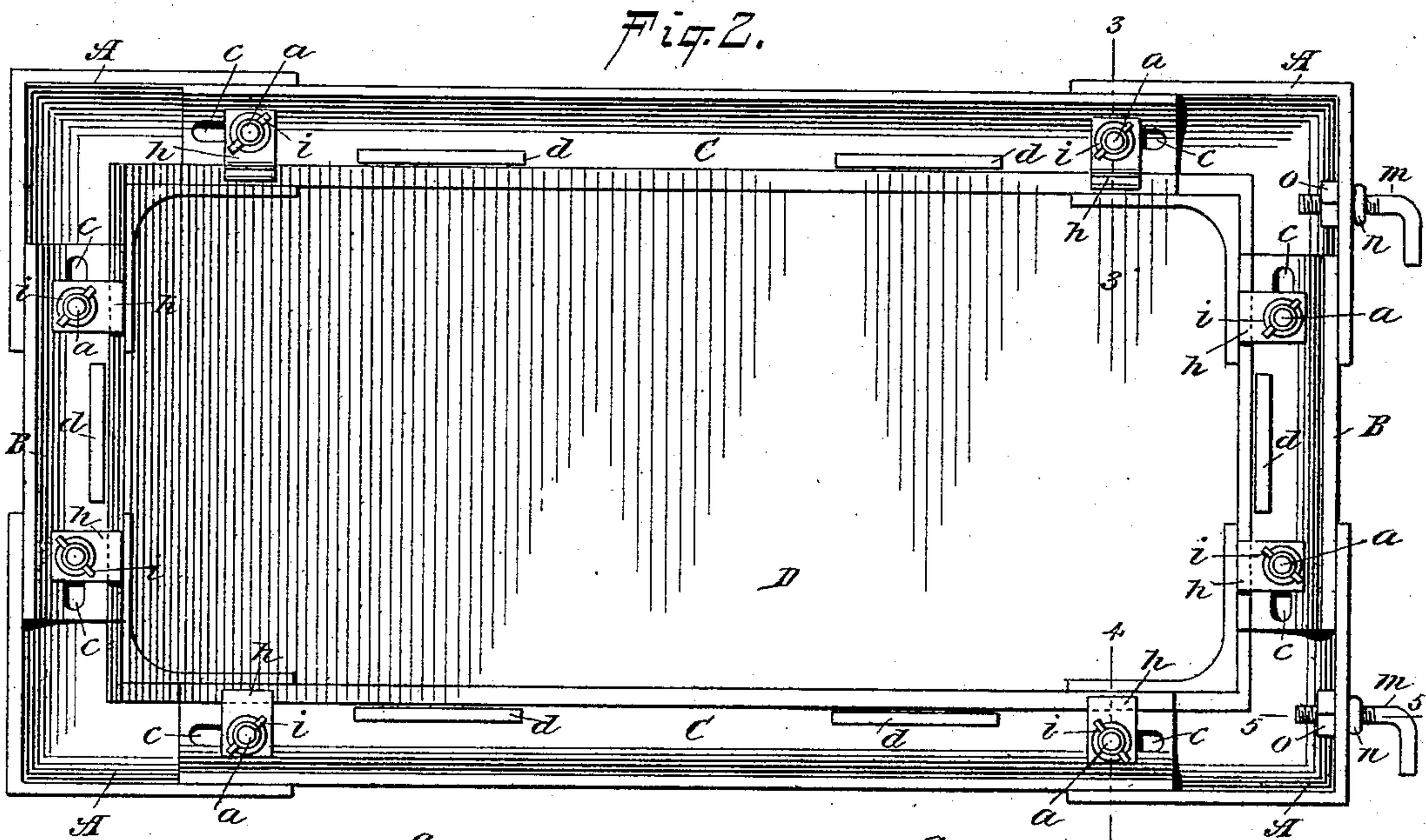


Fig. 3.

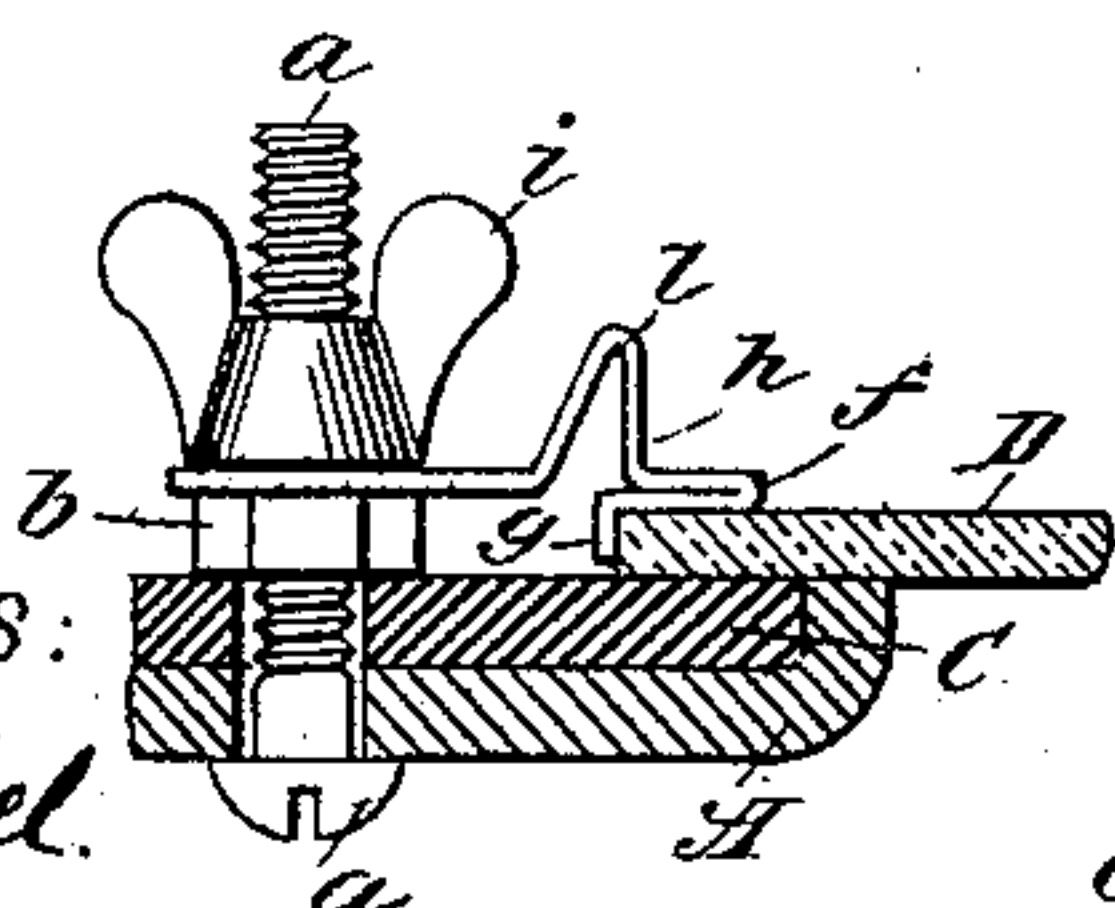
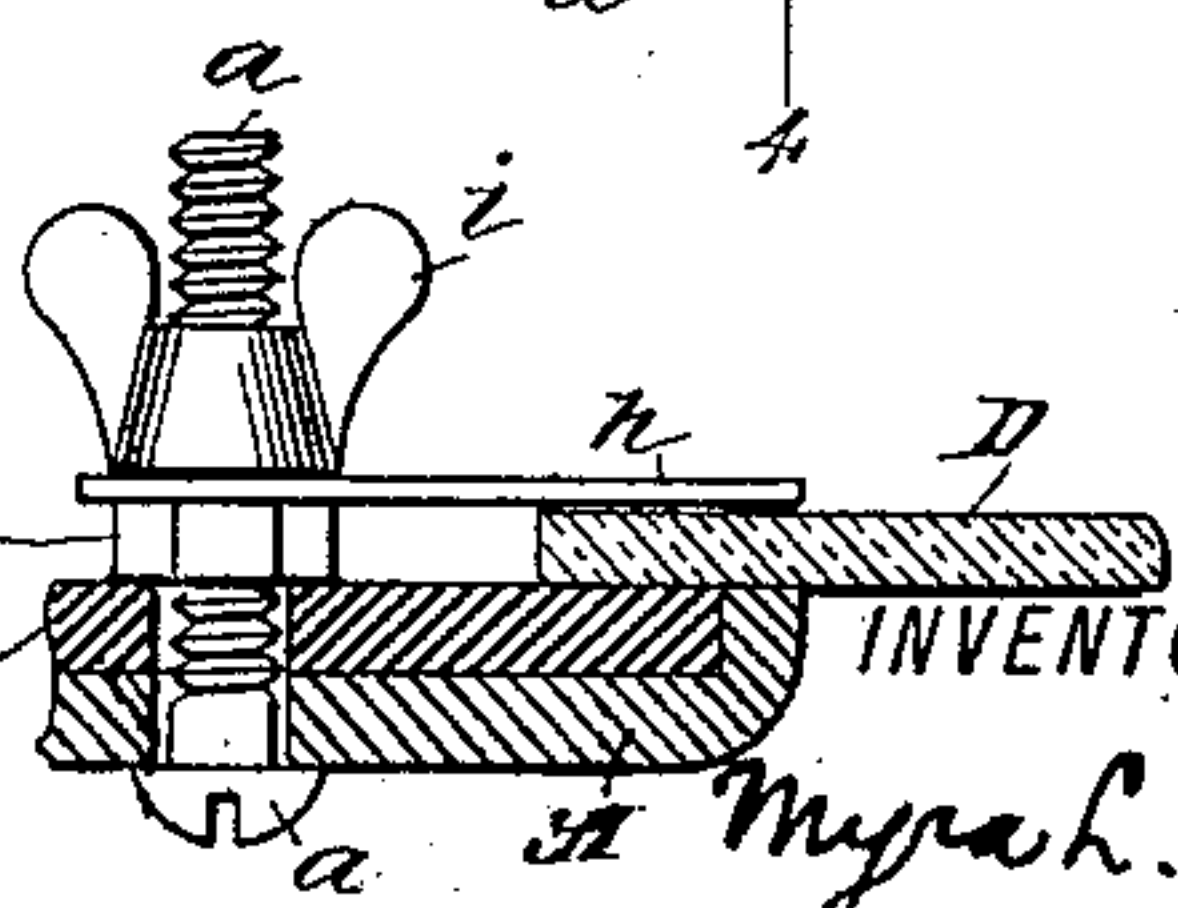


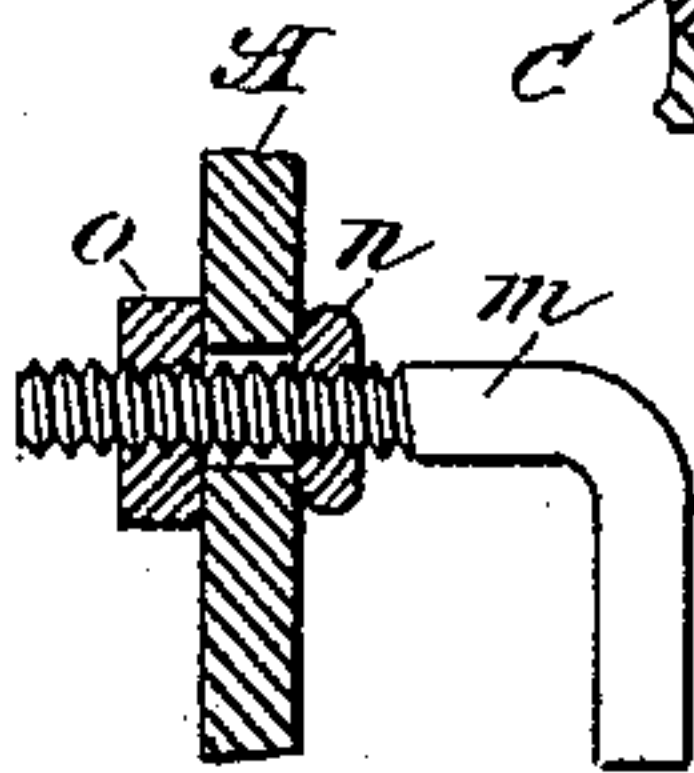
Fig. 4.



WITNESSES:

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Fig. 5.



INVENTOR

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OVEN-DOOR FOR COOKING STOVES OR RANGES.

SPECIFICATION forming part of Letters Patent No. 572,199, dated December 1, 1896.

Application filed March 16, 1896. Serial No. 583,277. (No model.)

To all whom it may concern:

Be it known that I, MYRA L. EVEREST, a citizen of the United States, and a resident of Clayton, in the county of Jefferson and State of New York, have invented certain new and useful Improvements in Oven-Doors for Cooking Stoves or Ranges, of which the following is a specification.

My invention relates to the ovens of cooking stoves or ranges or ovens of any size, form, or material used for purposes of baking.

It consists in a door of glass and metal of peculiar construction, as hereinafter described and claimed, for application to such ovens; and the object of my invention is to provide for rendering the process of baking visible in ovens now in use and now provided with the ordinary door of solid metal. To accomplish this object, I have constructed for my oven-door, with which I would replace those of solid metal now in use, a narrow metal rim or frame which is made in sections adjustable to any dimensions, and within this rim I have secured a glass plate, as shown in the accompanying drawings, in which—

Figure 1 is a front view of an oven-door embodying my invention. Fig. 2 is a reverse view of the same. Fig. 3 is a sectional view of the upper fastening along the line 3 3 of Fig. 2. Fig. 4 is a sectional view of the lower fastening along the line 4 4 of Fig. 2, and Fig. 5 is a sectional view of the hinge attachment along the line 5 5 of Fig. 2.

The four corner-sections A, the two side sections B, and the two upper and lower sections C constitute an adjustable frame, to be made of iron or any suitable material, in which the glass plate D is secured, as shown in Fig. 2. The sections of this inclosing frame are concave or open toward the back and the side and upper and lower pieces B and C are narrower and more shallow than the corner-sections A, so that they fit easily within the corners. The edges of the corner-sections serve as guides to the edges of the side and upper and lower sections, which rest within and against them, and these edges lie always in the same plane, so that the rim shuts closely to the oven and the glass sits closely and evenly to the frame.

The side and upper and lower sections B and C are made in various lengths. They

slide within the corner-sections and are also slotted lengthwise at the ends *c c* to facilitate adjustment. The sections are held in place by screws and nuts *a b*, as shown in Figs. 3 and 4, and they are provided with narrow projecting guards *d d* to prevent displacement of glass D.

In Fig. 3 is shown the device for fastening together the different sections of the frame in conjunction with a spring-metal clamp for holding the glass in place. This device consists of the screw *a*, nut *b*, clamp *h*, and wing-nut *i*. The nut *b* secures the two sections of the frame through which the screw *a* passes firmly together, and the wing-nut *i* secures in place the clamp *h*. This clamp *h*, made of any suitable elastic metal, may be a plain strip, as shown in Fig. 4, which is sufficient for the opposite sides and lower edge of the door, or it may be of the form illustrated in Fig. 3, which is preferable for the upper edge of the door. The metal strip or clamp shown in Fig. 3 is bent or folded to form the lip *f*, which presses the glass D against the frame-sections A C, the lip *g*, which presses against the edge of the glass, and the loop *l*, which provides ample spring to meet the expansion and contraction of the glass plate as the oven is heated or cooled.

Fig. 5 represents the manner of applying the pin-section of the hinge to the inclosing frame, and in this figure *m* denotes a screw passing through a free aperture in the frame A and secured in place by the ornamental nut *n* on the outside of the frame and the nut *o* on the inside of the frame. The outer end of the screw *m* is bent downward to form the usual pin adapted to enter the apertured lug or knuckle cast on the stove or range. These hinges when adjusted to the rim of the door meet and articulate with the lugs on the particular oven to which the door has been fitted, and the form of the hinge at the point of articulation with the oven will be modified as may be necessary to suit each particular case.

The door constructed as above described is adapted for adjustment and application to the ovens of stoves and ranges already in use and is intended to replace the ordinary iron doors thereon. The inclosing frame being composed of adjustable sections may be expanded or contracted either vertically or

laterally to meet the shape of the oven to which it is to be applied. After the frame has been adjusted to the size and outline of the oven the glass D will be cut to fit the frame and secured thereto, whereupon the door will be complete and may at once be applied. The hinge-sections *m* are also adjustable to meet varying conditions. The exterior form of the door does not become disfigured by the adjustment of its parts and may be very ornamental in character, and the said door when once applied to the oven is to be a permanent fixture.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The oven-door consisting of a central glass plate, and a metal inclosing frame composed of overlapping adjustable sections A, B and C, with means for securing the sections together and the glass plate in position; substantially as described.

2. The oven-door consisting of a central glass plate, the metal inclosing rim composed of adjustable sections, and the means for securing said sections together and the plate in place which consist of the screws and the two nuts and clamp thereon; substantially as described.

3. The oven-door consisting of the glass plate, and the inclosing frame composed of the corner-sections A and the sections B, C, adjustable within said corner-sections, said sections being concave on their inner faces and having their edges on corresponding planes; substantially as described.

4. The oven-door consisting of the glass plate, and the inclosing frame composed of

the corner-sections A and the sections B, C, adjustable within said corner-sections and having the slots and screws at their ends; substantially as and for the purposes set forth.

5. The oven-door consisting of the glass plate, and the inclosing frame composed of overlapping sections, combined with the screws for securing said sections together, the nut on said screws close against said frame, the clamp on said screws against said nut and extending over the glass plate, and the nut on said screws binding against said clamp, substantially as set forth.

6. The oven-door consisting of the glass plate, and the inclosing frame composed of overlapping sections, combined with the shoulders on said frame to support said glass plate, and means for securing said plate and allowing for the expansion and contraction of same; substantially as set forth.

7. The oven-door consisting of the glass plate, and the inclosing frame composed of overlapping sections, combined with the screws for securing said sections together, the nut on said screws close against said frame, the clamp on said screws against said nut and extending over the glass plate, and the wing-nut on said screws binding against said clamp, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 14th day of March, A. D. 1896.

MYRA L. EVEREST.

Witnesses:

E. JOS. BELKNAP,
CHAS. C. GILL.