

No. 637,805.

Patented Nov. 28, 1899.

L. LEU.
OVEN DOOR.

(Application filed Apr. 7, 1899.)

(No Model.)

Fig. 1.

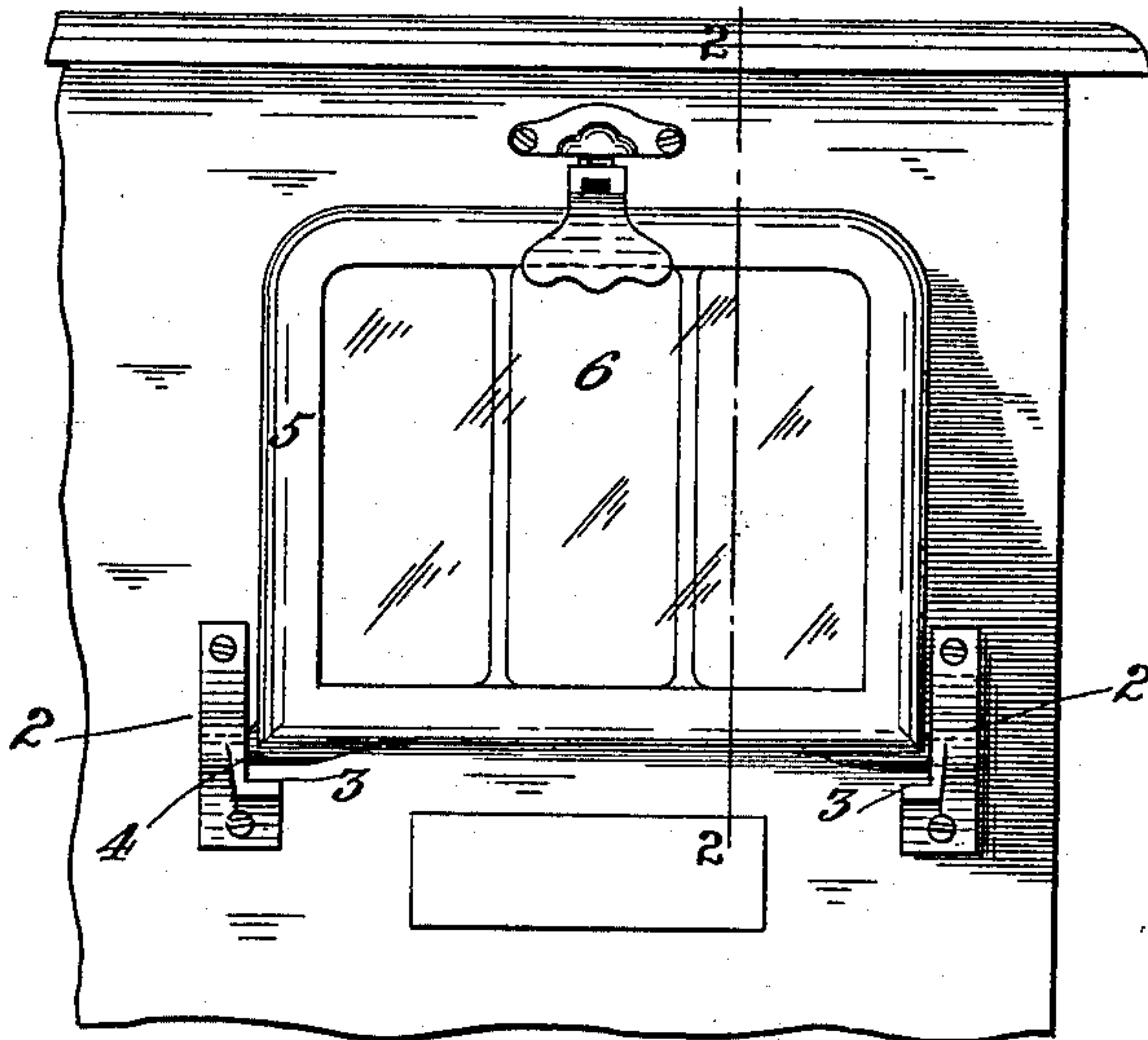


Fig. 3.

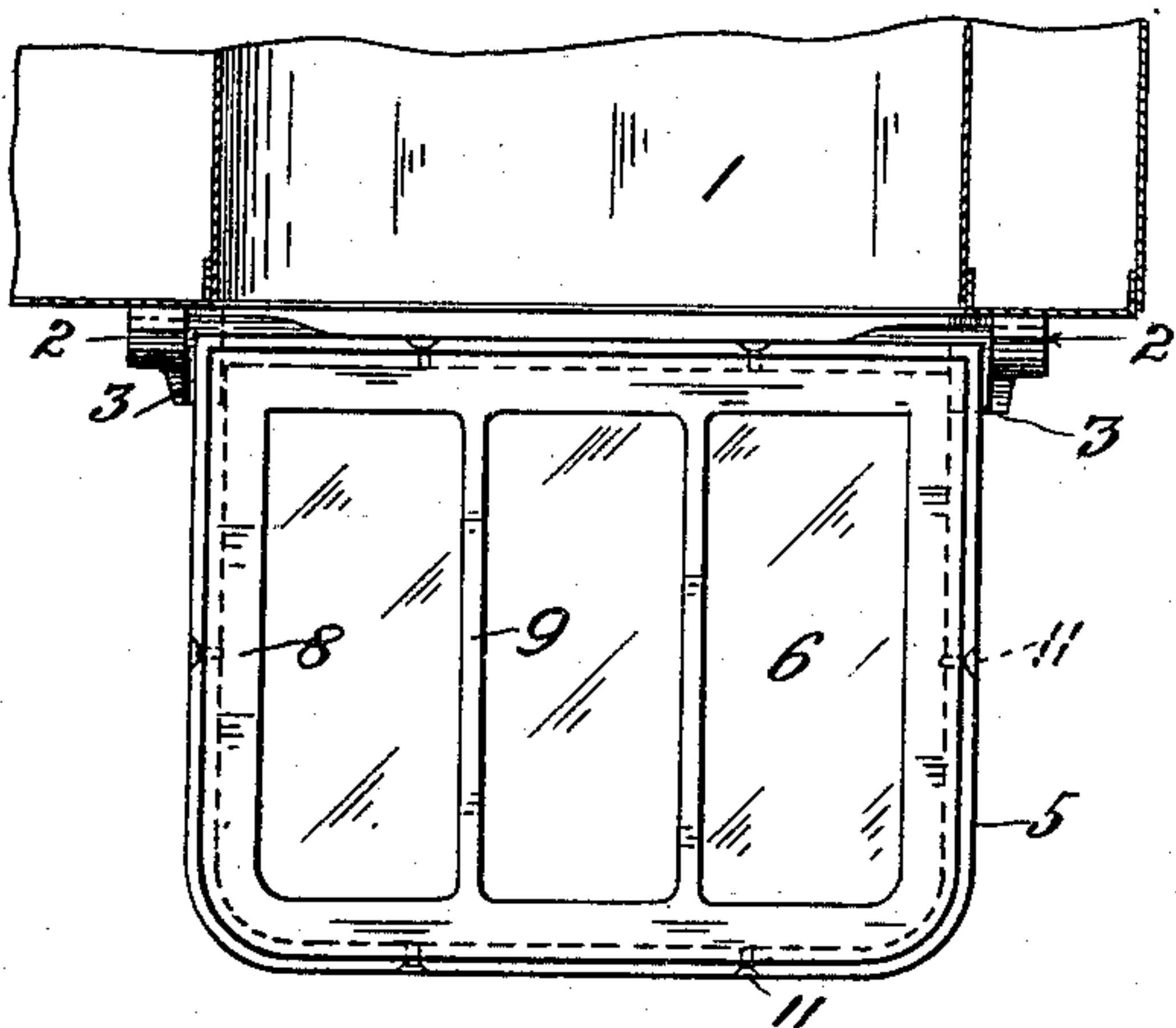
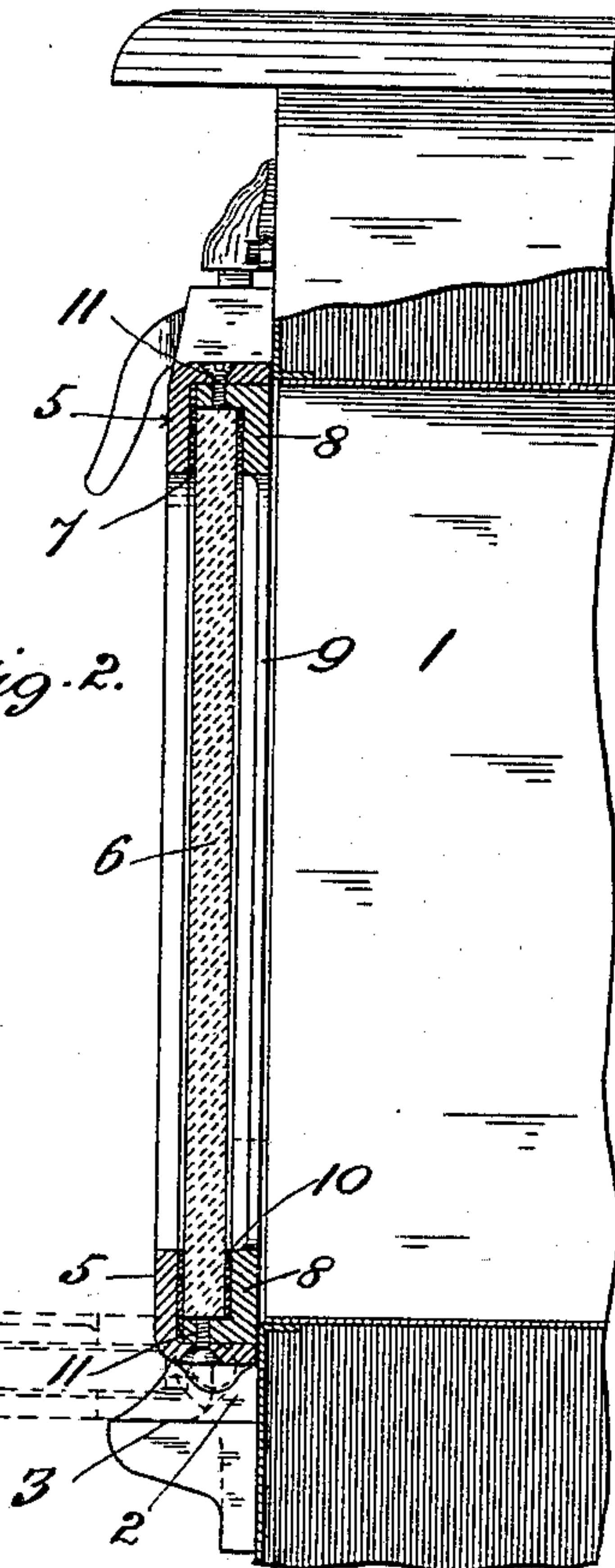


Fig. 2.



WITNESSES
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LEON LEU, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO JOSEPH HAFNER, OF SAME PLACE.

OVEN-DOOR.

SPECIFICATION forming part of Letters Patent No. 637,805, dated November 28, 1899.

Application filed April 7, 1899. Serial No. 712,082. (No model.)

To all whom it may concern:

Be it known that I, LEON LEU, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Oven-Doors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in oven-doors; and it consists in the novel arrangement and combination of parts more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a front elevation of the door, being in its closed position, showing a portion of the stove or range. Fig. 2 is an enlarged vertical section on line 2 2 of Fig. 1, showing in dotted lines the open position of the door; and Fig. 3 is a plan view of the door thrown open, a sectional portion of the oven being also shown.

The object of my present invention is to construct an oven-door with a transparent body portion or section through which the contents of the oven may be inspected without necessitating the opening of the door. In this way the heat of the oven is prevented from escaping.

In detail the device may be described as follows:

Referring to the drawings, 1 represents the oven of an ordinary stove or range. Disposed below the lower edge of the oven-opening, at each end thereof, is a bracket 2, provided with an outwardly horizontally projecting arm or lug 3 for the support of the door when the latter has been opened out to a horizontal position. The hinge pins or pivots 4 of the door are disposed at the lower corners of the outer frame 5 of the door, the frame 5 being substantially a closed angle-bar, the normally vertically-disposed or face member of which in the present instance supports a plate-glass body portion 6, between which and the frame is interposed a strip of asbestos 7 or equivalent material which is a non-conductor of heat. Adapted to embrace the edges of the plate 6 and interposed between said edges and the other member of the angle-bar 5 is the outwardly-projecting member of the angle-bar grating 8, the other member

being disposed parallel to the plate and two opposite parallel portions of the same being connected by bars or gratings 9, which when the door is open are substantially on a level with the bottom of the oven. In practice a strip of asbestos 10 is interposed between the glass plate and the grating, the asbestos on each side of the glass preventing the latter from being unduly heated and is thus protected against extreme temperatures. The edge of the frame 5 and the outwardly-projecting member of the angle-bar frame 8 are provided with alining screw-threaded openings for the reception of screws 11, by which the parts are held together.

The object of the grating 8 9, as is obvious, is to protect the inner surface of the glass from being scratched by the bottoms of the pans as they are pulled out of the oven onto the door when the latter has been swung to its horizontal open position, the gratings or bars 9 serving to temporarily support such pans when drawn out of the oven.

While I have herein described certain details of construction, it is apparent that minor changes might be made therein without departing from the spirit of my invention. To enable the cook to better draw the pans over the grating, the bars of the latter are disposed, preferably, parallel to the direction in which the pans are withdrawn—that is to say, the bars run parallel to the plane of oscillation of the door.

Having described my invention, what I claim is—

1. An oven-door comprising an outer angle-bar frame, a body portion of glass bearing against and supported by the face member of the angle-bar, an angle-bar grating having an outwardly-projecting member embracing the edges of the glass and interposed between it and the second or edge member of the angle-bar frame, bars connecting two opposite portions of the second member of the angle-bar grating, and securing-screws passed through the edges of the door into the outwardly-projecting member of the angle-bar grating for securing the parts together, substantially as set forth.

2. An oven-door comprising an outer angle-bar frame, a body portion of plate-glass bear-

ing against and supported by the face member of the angle-bar, a strip of asbestos interposed between said member and the glass, an angle-bar grating having an outwardly-projecting member embracing the edges of the glass and interposed between it and the second or edge member of the angle-bar frame, bars connecting two opposite portions of the second member of the angle-bar grating, said bars running parallel to the plane of oscillation of the door, an asbestos strip interposed between the grating and glass, and securing-screws passed through the edges of the door

into the outwardly-projecting member of the angle-bar grating for securing the parts together, the door being pivoted so as to bring, when opened horizontally, the grating-surface in the plane of the bottom of the oven, substantially as set forth.

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

LEON LEU.

Witnesses:

EMIL STAREK,

JAMES J. O'DONOHUE.