

(No Model.)

J. E. DAVIS.
FURNACE, RANGE, OR STOVE DOOR.

No. 562,511.

Patented June 23, 1896.

Fig 1-

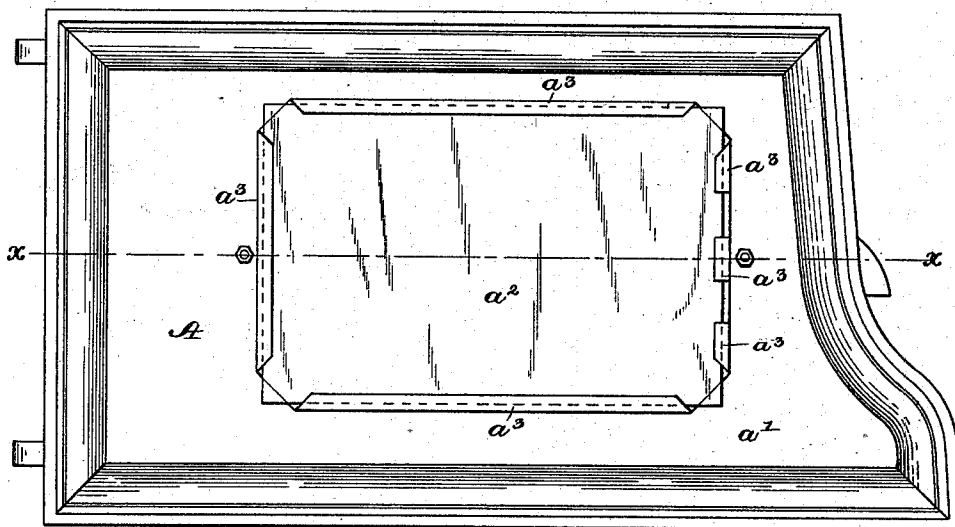


Fig. 2.

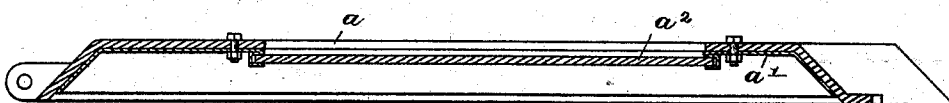
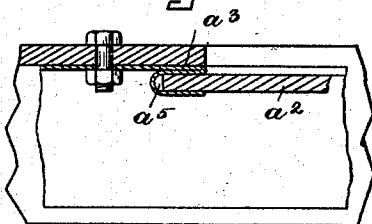


Fig. 3.



WITNESSES.

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JOHN E. DAVIS, OF CONWAY, NEW HAMPSHIRE, ASSIGNOR OF ONE-HALF
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FURNACE, RANGE, OR STOVE DOOR.

SPECIFICATION forming part of Letters Patent No. 562,511, dated June 23, 1896.

Application filed January 3, 1896. Serial No. 574,224. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. DAVIS, a citizen of the United States, residing at Conway, in the county of Carroll and State of New Hampshire, have invented a new and useful Improvement in Furnace, Range, or Stove Doors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to a door especially adapted for an oven-door for ranges and stoves, and which comprises a casting having an aperture which is covered by a glass plate held in or opposite the aperture by the sections of the lining of tin with which oven-doors are ordinarily provided.

Referring to the drawings, Figure 1 is a view in rear elevation of an oven-door having the features of my invention. Fig. 2 is a view in horizontal section upon the dotted line xx of Fig. 1; and Fig. 3 is a detail view in section, enlarged.

A represents the door of cast-iron. It has the aperture a , which may be of any desired size, and it has attached to its inner surface the lining a' of tin. This lining is provided with an aperture a^2 , corresponding in size with the aperture a , and sections a^3 of the lining, about the aperture, are folded back upon the lining, (see Fig. 4,) and then curved and extended forward, forming the holding-recesses a^4 for receiving the edge of the glass. These recesses preferably are within the edge of the aperture, and a glass plate is used which is larger than the aperture, the edges extending past the edge of the aperture. This method of holding the glass is economical, and is also a safe one, as I have ascertained that it supports the glass plate by its

edges without fracturing it, variations in the temperature of the oven not affecting the holder sufficiently to bring any strain upon the glass, and the holder being of a somewhat elastic or yielding character.

In the drawings I have represented the lining, and consequently the glass plate, as secured to the door by means of two bolts, one upon each side of the opening a . Any other desired means of securing the lining, and with it the glass plate, to the door may, however, be used.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The improved door for furnaces, ranges and stoves herein described, the same comprising an iron casting A having a central aperture a , a sheet-metal lining upon the inner surface of the door covering the entire inner surface and having continuous extensions about said aperture, which are bent or formed to receive and hold a plate of glass upon the inner side of said door, and the said plate of glass of a size to cover said aperture, as and for the purposes described.

2. The combination of the stove-door casting A having a central aperture a , the tin lining a' covering its entire inner surface, and having continuous extensions about the aperture which are bent backward upon the lining and then forward to form holding-recesses on each side of the aperture and a glass plate covering the aperture, the edges of which are contained in said recesses, as and for the purposes described.

JOHN E. DAVIS.

Witnesses:

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