(No Model.)

J. G. SMITH.

STOVE DOOR.

No. 362,325. Patented May 3, 1887.

Fig. 2.

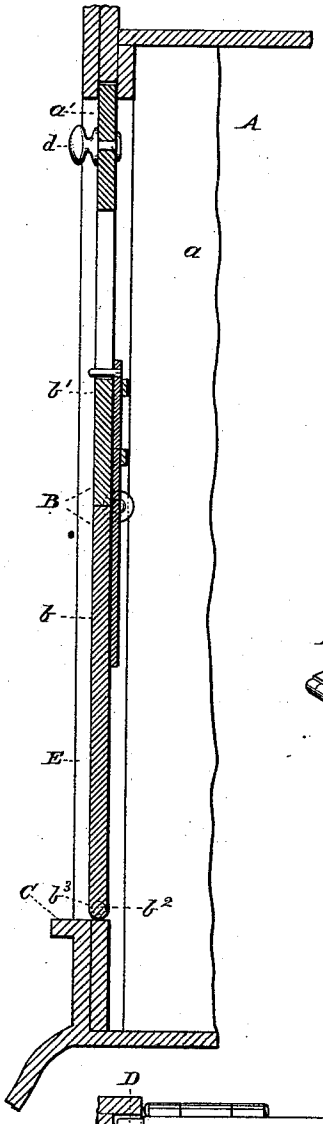


Fig. 1.

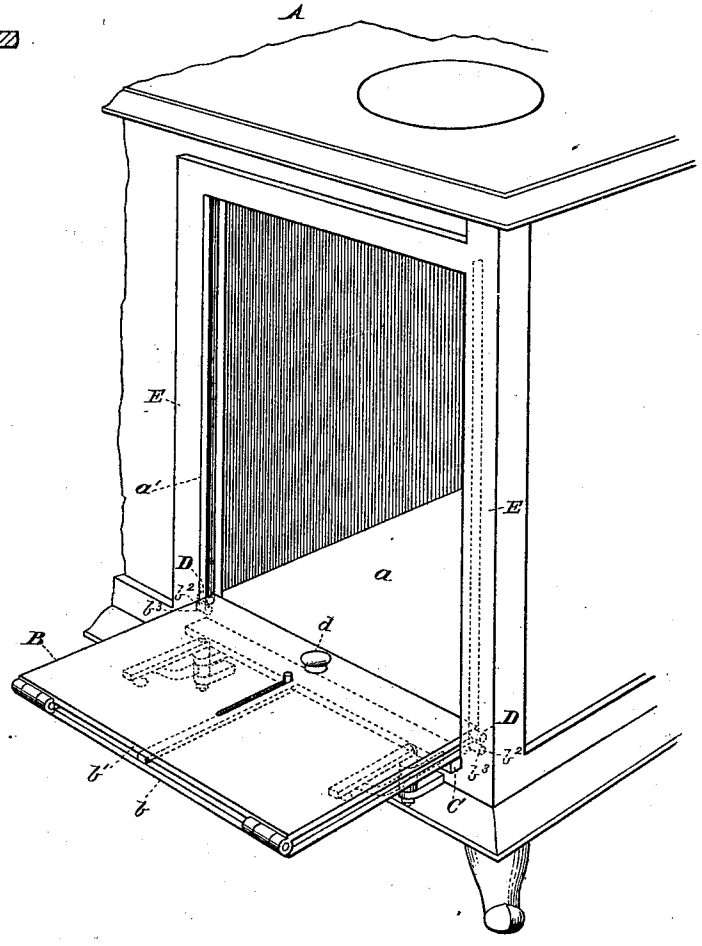
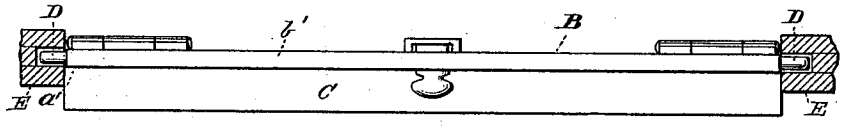


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES G. SMITH, OF CLEVELAND, OHIO.

STOVE-DOOR.

SPECIFICATION forming part of Letters Patent No. 362,325, dated May 3, 1887.

Application filed November 27, 1886. Serial No. 220,046. (No model.)

To all whom it may concern:

Be it known that I, JAMES G. SMITH, a citizen of the United States, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Stove-Doors; and I do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a perspective view. Fig. 2 is a vertical section. Fig. 3 is a detail, and shows top view of the door.

The invention relates to improvements in stove-doors, for heating or cooking purposes, of any construction, and is especially adapted for use on cooking-stoves, the object being to provide a door which, when hinged to the stove, can be turned down into a horizontal position to form a hearth for the oven. The door is so constructed and arranged that it can be quickly and readily attached in proper position, and will not obstruct the entrance or opening of the oven when turned down to form a hearth.

The invention consists in certain details of the construction and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

Referring to the accompanying drawings by letter, A designates the portion of a stove, *a* designating the oven thereof, having the entrance or opening *a'*.

B is the stove-door, made of a number of transverse leaves hinged or jointed together at their meeting edges. The door is preferably made of two leaves, *b b'*, as shown in the drawings, so connected by hinges or otherwise that they will readily fold upon each other. The lower leaf, *b*, is hinged upon the lower edge of the opening *a'* of the oven, or has journals b^2 at the corners of its lower edge, which turn in bearings b^3, cast upon the front of the stove in proper positions.

C is a supporting ledge or flange standing outward from the lower edge of the opening *a'*, so as to sustain the weight of the door when turned outward horizontally and prevent the hinges or bearings of the leaf *b* from breaking.

The upper leaf, *b'*, is provided with a suitable handle, *d*, near its upper edge, and has standing from its upper corners the pins or projections D D, each of which rests in the space between the side of the stove and a vertical guide-bar, E, secured thereto. When the door is raised, the leaf *b'* rests vertically above the leaf *b* and the entrance to the oven is effectually closed, the projections D and the guide-bars preventing the door from falling outward. When it is desired to convert the door into a hearth, the leaf *b'* is pulled downward by means of its handle *d*, and is folded upon the leaf *b*, which is by the same action turned outward horizontally, so as to rest upon the supporting-flange C. As the leaf *b'* descends, the projections D and guide-bars E keep its upper edge to the side of the stove.

Some of the advantages of the invention are as follows: The door is of simple construction and easily placed in position. It makes a wide hearth on the level of the bottom of the oven, on which pans containing food can be rested if the baking is too rapid, and it in no way obstructs the entrance to the oven.

I am aware that turn-down or pivoted hearths have been used in connection with stoves, and such I do not claim, broadly, as my invention is essentially a door and turn-down hearth in one.

I do not desire to limit myself to the particular form of guides for the upper leaf of the door, as shown and described, nor to the particular form of joint uniting the leaves; nor do I desire to limit myself to the use of two leaves only, as it is evident the door might have more leaves and be effective.

For greater security in keeping the door in place when closed, it is provided on the inside with a sliding bolt, made to move up and down, fastening the two leaves together securely in place by lowering said bolt so as to cover a portion of both the upper and lower leaves. In the present instance I have shown the upper hinged section of the door as provided with a vertical slot for the passage

of a finger-piece on the upper outer side of the sliding bolt. By reference to Fig. 1 it will be seen by dotted lines that a support in addition to the ledge or strip may be employed, and this support may consist of two pivoted horizontal arms adapted to move outwardly for supporting the door.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a stove, of the door composed of two or more leaves jointed together at their meeting edges, the lower leaf being hinged or otherwise jointed to the stove and the highest leaf being provided with projections standing outward from its upper corners, and the guide-bars secured to the stove and so placed as to direct the projections on the highest leaf of the door, substantially as specified.

2. The combination, with the stove provided with the oven *a*, and the guide-bars secured to the stove on each side of the entrance *a* of the oven, of the door composed of two transverse leaves jointed together at their meeting edges, the lower leaf hinged or otherwise jointed to the lower edge of the opening or entrance *a*, and the upper leaf provided with projections at its upper corners to engage and be directed by the said guide-bars, substantially as specified.

3. The combination of the stove A, provided with the oven *a*, the edge or flange C, standing outward from the lower edge of the entrance or mouth of said oven, the door B, composed of the leaves *b b'*, the former jointed at its lower edge to the lower edge of the opening *a'*, and the latter provided with the pins or projections D D, and the guide-bars E E, substantially as specified.

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

JAMES G. SMITH.

Witnesses:
S. G. SMITH,
FRANK N. WILCOX.