

H. G. GILES.

Fastening for Stove-Door Lining.

No 99,556.

Patented Feb. 8, 1870.

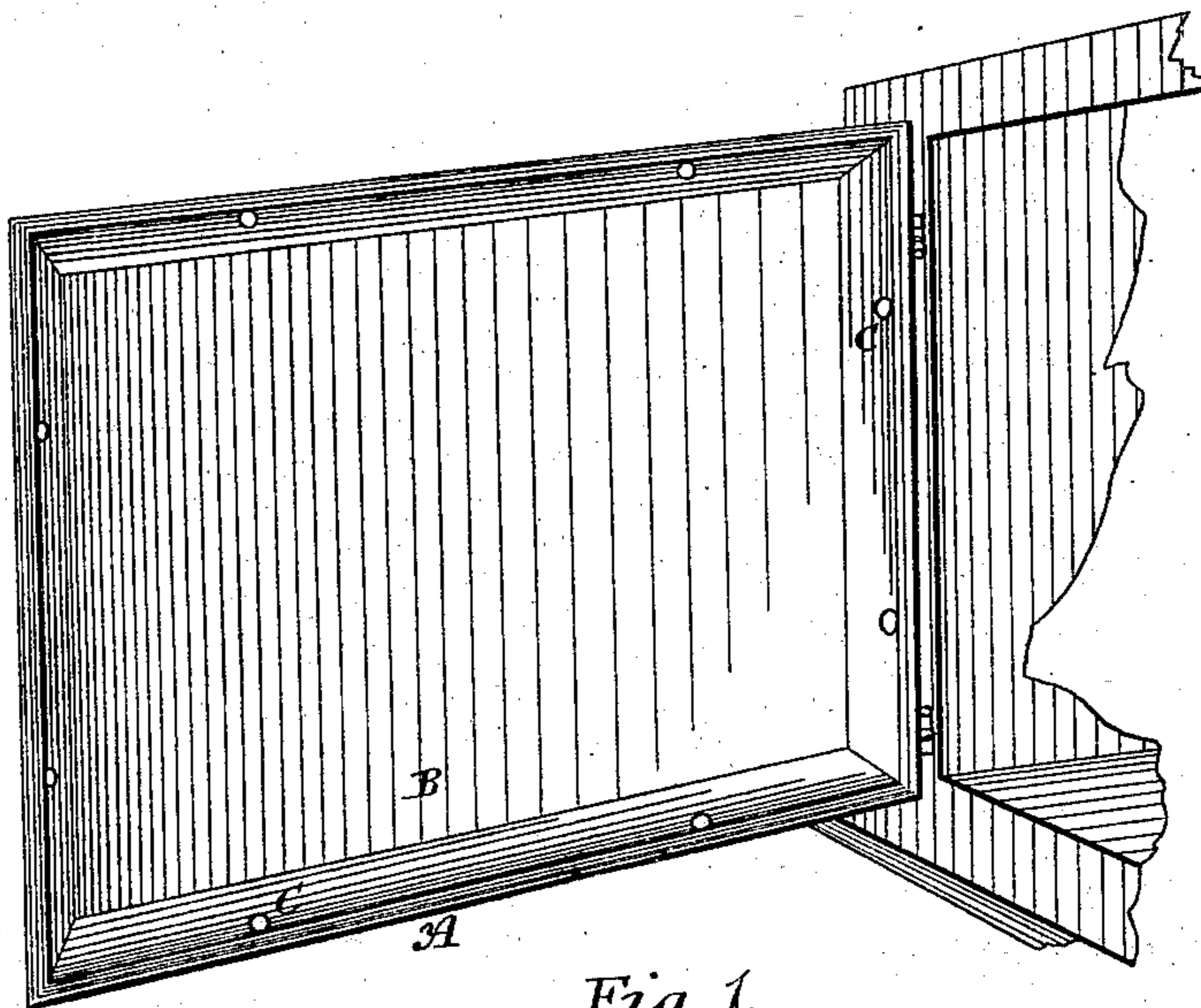


Fig. 1.

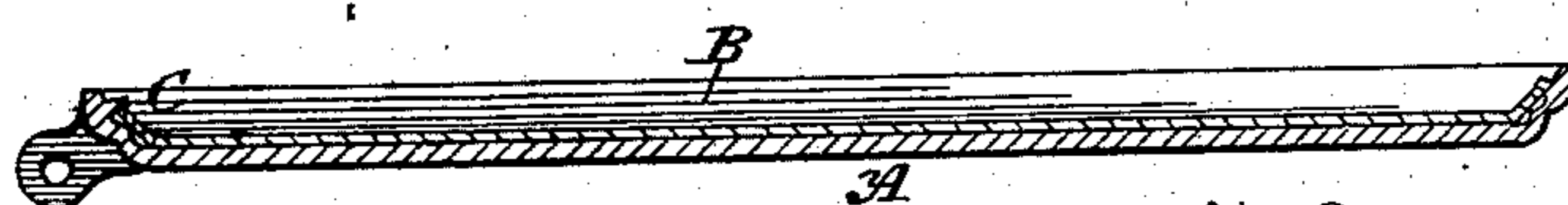


Fig. 2.

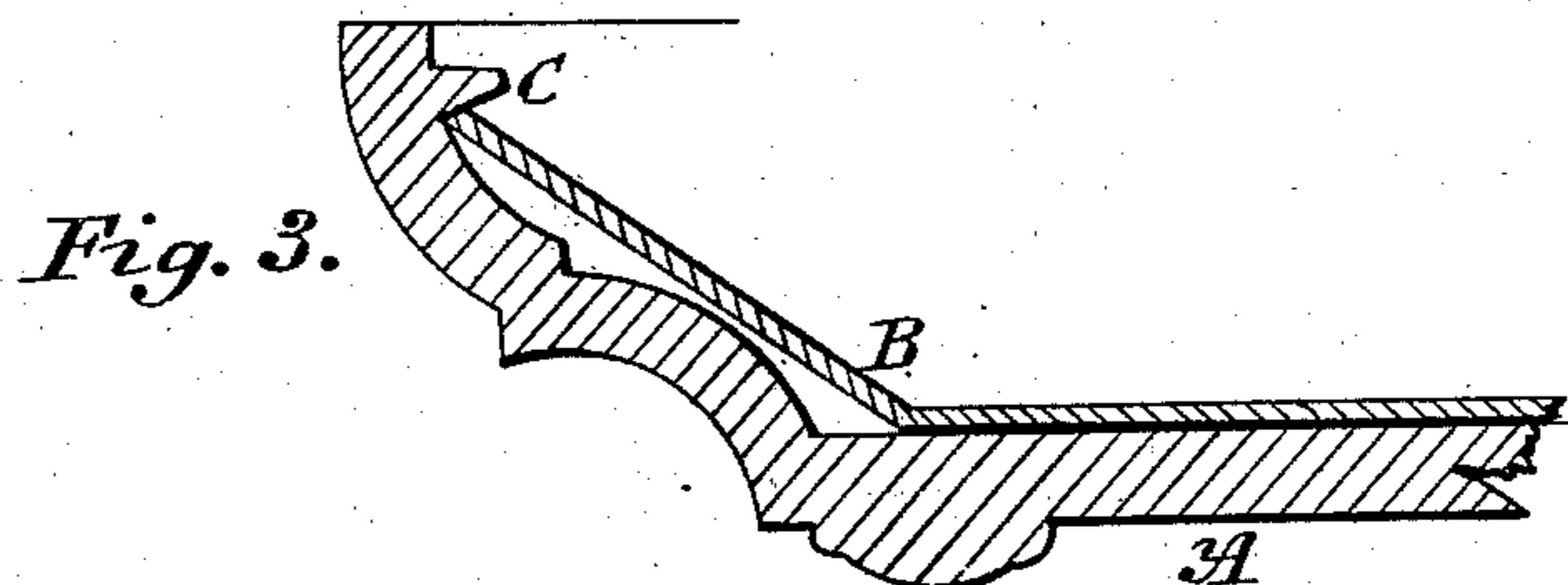


Fig. 3.

WITNESSES

Jms. H. Loosback  
Geo. L. Bellows

INVENTOR

H. G. Giles

# United States Patent Office.

HENRY G. GILES, OF TROY, NEW YORK.

Letters Patent No. 99,556, dated February 8, 1870; antedated February 5, 1870.

## IMPROVEMENT IN FASTENING STOVE-DOOR LININGS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, HENRY G. GILES, of the city of Troy, in the county of Rensselaer, and State of New York, have invented a new and useful Improvement in Fastening Stove-Door Linings; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a perspective view of the lining in the door.

Figure 2 shows a cross-section of door and lining.

Figure 3 is an enlarged view of a portion of the door and lining.

It is the custom with stove-manufacturers who make first-class stoves, to line the inside of the oven-doors with tin plate or other metal. The object is to break more perfectly the communication of the hot air in the oven with the cold air on the outside of the oven, thus retaining the hot air in the oven until baking is perfected, thereby producing a more perfect baking oven, with less waste of heat and fuel.

The usual manner of securing the said linings in the doors is by turning up their sides, so as to fit into the door-panel, and against the sides or rim or moulding of the door, (see fig. 1,) where, just at the edge of the door-lining, holes are drilled through the rim or moulding of the door, and rivets are put, leaving the heads of the rivets to hold the lining in place, a process quite expensive and laborious.

Now, my invention consists in making (in place of the rivets) little inward-projecting nibs, C, at proper

distances, just at the edge of the lining B, (which is prepared as for riveting,) and then bearing the lining down into its bed, until it passes the nibs C, when the spring of the lining will cause the edges to fall under the nibs, and the lining is fast in its place, and the work is done, thus making a large saving of time, labor, and money.

This may be effected in many ways, such as, for instance, the edge of the door may be inclined inward, or a little bead raised in place of the ribs. Even a perfectly perpendicular edge may hold the lining in some cases, when properly sprung in.

My process for making the said nibs is chiefly in the use of a duplicate pattern. When the cope is raised by the moulder, the pattern being removed, the duplicate is placed on the sand. A little punch is then pressed into the sand, through holes previously made in the duplicate, just far enough to make the nibs in the sand, so that when the door is poured, the nibs are complete.

This manner or process of making said nibs may be applied to other similar purposes, and which I intend hereafter to specify more particularly, for the purpose of asking a patent therefor.

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

The nibs C, or their equivalents, in combination with a stove-door lining, as and for the purposes herein set forth.

H. G. GILES.

Witnesses:

JNO. W. RORABACK,  
GEO. L. BELLWS.