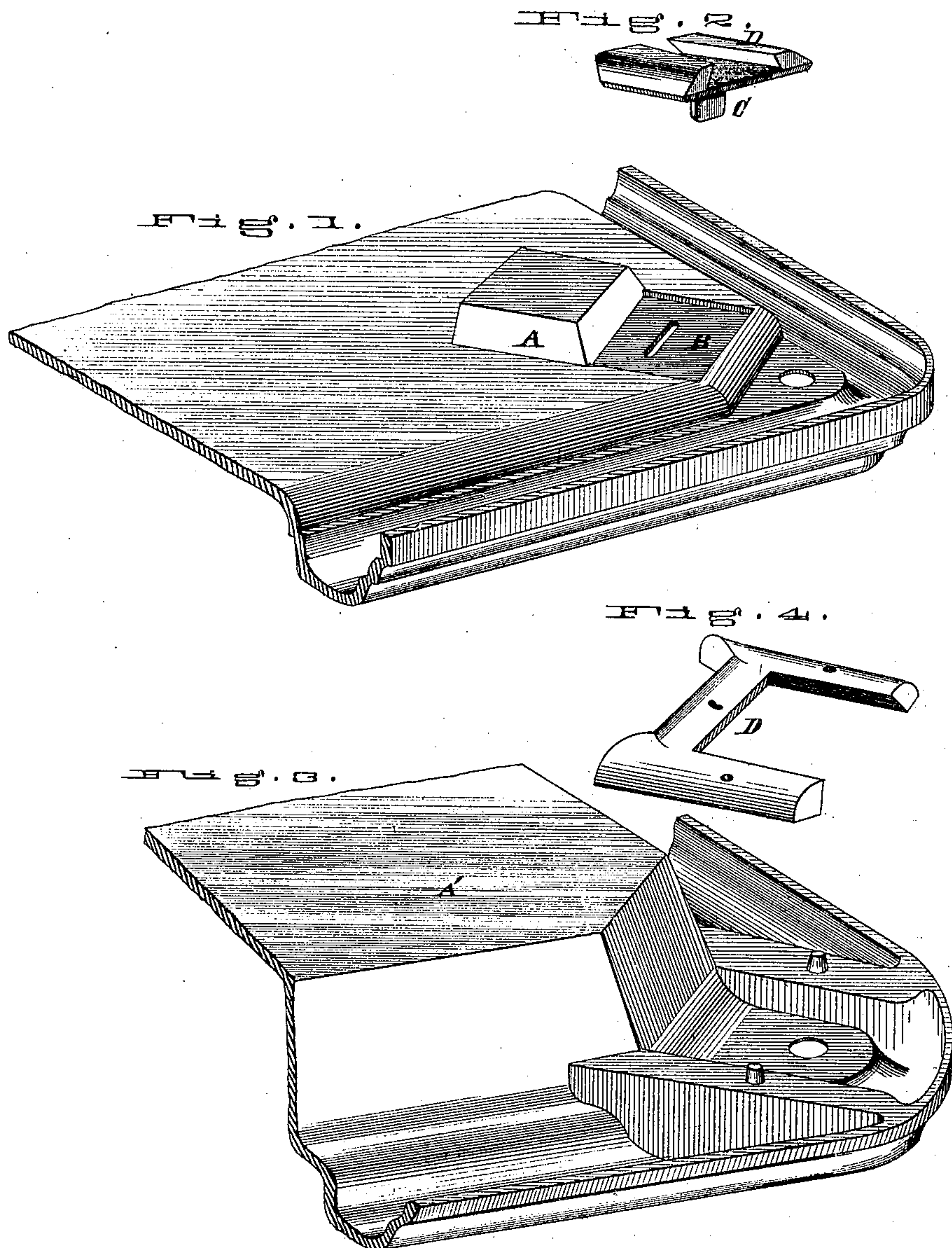


B. H. Menke,
Pattern for Stove Castings.
No. 96,717. Patented Nov. 9, 1869.



Attest.
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United States Patent Office.

BERNARD H. MENKE, OF CINCINNATI, OHIO.

Letters Patent No. 96,717, dated November 9, 1869.

IMPROVEMENT IN PATTERNS FOR STOVE-CASTINGS.

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, BERNARD H. MENKE, of the city of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a certain new and useful Improvement in Pattern for Stove-Castings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which the object of my improvement is to provide means whereby the dovetail on the bottoms of stoves, for holding the feet, may be cast straight.

Heretofore the dovetail has been moulded by means of two strips of wood, called duffs, which left the impress of the two sides of the dovetail in the sand, and were afterward separately removed therefrom, and, by reason of these pieces not being permanently attached to each other, they were often shifted, so as to be out of their proper relation to each other, by the packing of the sand, the result of which was, that a large percentage of the castings for the bottoms of stoves required a great amount of labor, in order to produce an accurate fit of the dovetail for the stove-foot. And the reason of their not being joined together permanently was, that they could not be so removed from the sand without interfering with it, and thus spoiling the mould.

My means for the accomplishment of the above purpose is, to have a projection in the patterns immediately beside the dovetail.

Figure 1 is a perspective view of the under side of the pattern of the bottom plate of a wood-stove, showing the mode of attaching the dovetail.

Figure 2 is a perspective view of the dovetail-pattern.

Figure 3 represents the same view of a coal-stove that fig. 1 does of a wood-stove.

Figure 4 is a dovetail pattern adapted to the stove shown in fig. 3.

A is a projection, of a length and width not less than that of the seat of the dovetail B, and placed in the relation to the said seat, shown in the drawing, fig. 1. This projection on the pattern will cause a similar recess in the cope when the mould is formed.

The dovetail, fig. 2, will, of course, be placed in the

proper position in the seat B on the pattern before forming the mould, and when the mould is formed, owing to the shape of the dovetail, it will adhere to the cope, when it (the cope) is raised from the drag, and may then be drawn, parallel to the plane of the mould, in the direction of the recess formed in the cope, by the projection A, until it is wholly removed from the sand.

Thus, by means of the said recess in the cope, and the consequent ability of the moulder to have the duffs permanently attached to each other, as shown, all danger of misplacing the sides of the dovetail may be avoided, as well in the packing of the sand as in the withdrawal of the duffs.

Fig. 3 shows the application of my improvement to a different kind of stove, where the depth of the flue is sufficient to answer the purpose of the projection A, as shown in fig. 1.

In the drawing, fig. 3, A' represents a portion of the flue on the bottom of a coal-stove, and which will answer the same purpose in such a stove that the projection A answers in a wood-stove. The dovetail shown in fig. 4 is adapted to this kind of stove, and is made fast by means of the pins, as shown in fig. 3.

Another advantage of my invention is, that it saves much labor to the moulder, as well from the fact that there are only half as many pieces to be used, as from the fact that those pieces are more easily fitted in their places.

Having thus described my invention,

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

1. The stove-bottom with projection A and recess B, in combination with the dovetail piece D, constructed and arranged substantially as described.

2. The piece D, composed of two duffs, permanently attached to each other, as and for the purpose described.

3. The stove-bottom with projection A', in combination with the duffs D, constructed and arranged substantially as described.

BERNARD H. MENKE.

Witnesses:

JAMES MOORE,
S. S. MORRIS.