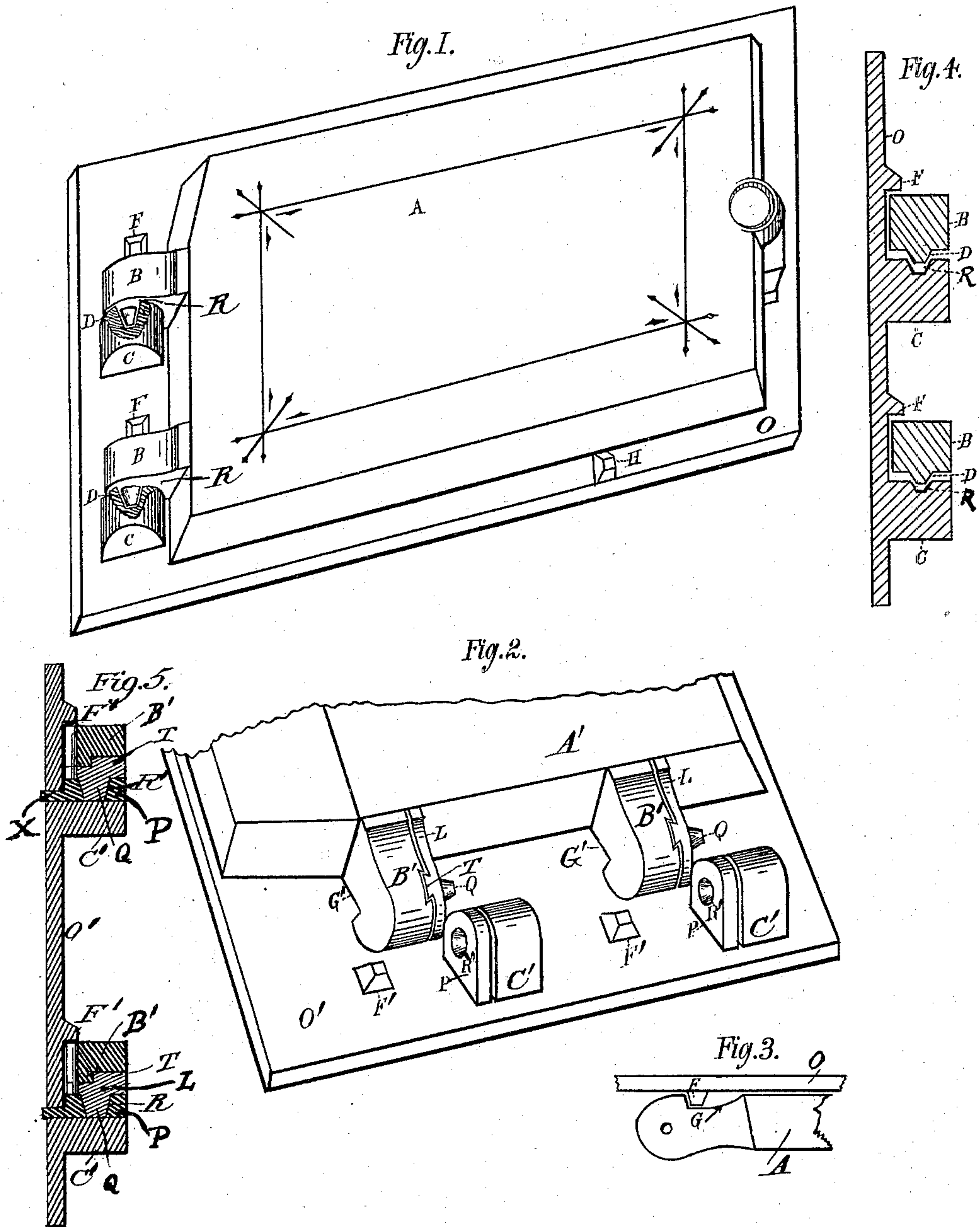


(Model.)

S. H. BROWN.
PATTERN FOR STOVE DOORS.

No. 368,568.

Patented Aug. 23, 1887.



WITNESSES.

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SAURIN H. BROWN, OF LOUISVILLE, KENTUCKY.

PATTERN FOR STOVE-DOORS.

SPECIFICATION forming part of Letters Patent No. 368,568, dated August 23, 1887.

Application filed June 21, 1886. Serial No. 205,774. (Model.)

To all whom it may concern:

Be it known that I, SAURIN H. BROWN, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in Hinges for Stove-Doors; 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 accompanying drawings, forming part of this specification.

This my invention relates to certain new and useful improvements in patterns for casting the hinges for stove-doors, the hinges consisting of small tapered cone-shaped pivots cast upon the under side of the door-lugs, with a corresponding cone-shaped socket formed in the top of the lugs of the side plate or frame to receive the pivots of the door-lugs, with a small nub on the side plate over the door-lug to prevent rising up, and a notch in the back of the door-lug to permit its being taken off.

The object of this my invention is to provide a pattern for molding the hinges on stove-doors, in order to reduce the cost and facilitate the construction thereof, and thereby avoid the tedious process of the drilling required under the old process and the fitting of pins, which requires much time and labor.

I attain the above object by the patterns illustrated in the drawings, in which—

Figure 1 is a perspective view of the cast door with part of the lugs cut away in order to show the pivots and corresponding sockets constituting the hinges. Fig. 2 is a perspective view of the pattern, showing the loose pieces intended to be drawn out separately to prevent breaking down the sand which forms the pivots and sockets of the mold. Fig. 3 is a top view of the door-plate and the door on the plate, showing the lug on the plate for holding down the door, and the recess in the back of the door-lug to permit the door to be taken off when shut. Fig. 4 is a section of the cast door plate and frame. Fig. 5 is a section of the door-pattern, showing the lugs and loose pieces required in molding to form the pivots and sockets in the sand of the mold.

Similar letters refer to similar parts throughout the several views.

In the drawings, A represents the door of the stove, B B are the lugs on the door, and C C are the lugs on the side plate or frame

O, all of which are made in the form as shown in the drawings. D D are the pivots cast permanently on the under side of the door-lugs, as shown, and R R are the corresponding sockets cast in the lugs C of the side plate, O, in which the pivots rest and in which they turn in opening the door.

F is a small nub on the side plate, O, over the upper hinge-lug of the door, to prevent its rising up in opening; and G is a recess in the back part of the hinge-lug B, to permit the lugs to pass the nub F in taking off the door, which can only be done when closed.

H is a lug on the side plate under the door, the top of which is beveled, forming an inclined plane to hold up the door when closed, the door being held by any suitable catch. A' is the door-pattern, as shown, with part of it cut away. B' B' are the hinge-lugs of the door, and L L are the loose pieces connecting with the lugs K by means of dovetail slides T, with the pivot Q formed on them in order to make the mold. These pieces L remain in the sand when the door and lugs are drawn out, after which the pieces L are drawn out laterally to prevent breaking down the sand of the mold which forms the pivot. C' C' are the lugs on the side plate or frame, O', and P P are the loose pieces forming part of the lugs C'. The sockets R' R', in which the pivots rest, are formed in the pieces P, which pieces have steady-pins X on the lower ends, which fit in recesses in the plate O' and hold them in place while molding. After the pattern is drawn out, the loose pieces P P are drawn out laterally, leaving a projection on the sand, which forms the socket, in which the pivots rest and in which they turn. Therefore

What I claim as my invention, and desire to secure by Letters Patent in patterns for molding hinges for stove-doors, is—

1. The combination of the door-pattern A', having lugs B' B', and the loose pieces L L, having the pivots Q Q, substantially as described.

2. The combination of the frame O', having lugs C' C', and the loose pieces P P, with sockets R R, substantially as described.

SAURIN H. BROWN.

Witnesses:

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