

J. BOYLAND.

PUDDLING FURNACE DOOR.

No. 170,225.

Patented Nov. 23, 1875.

Fig. 1

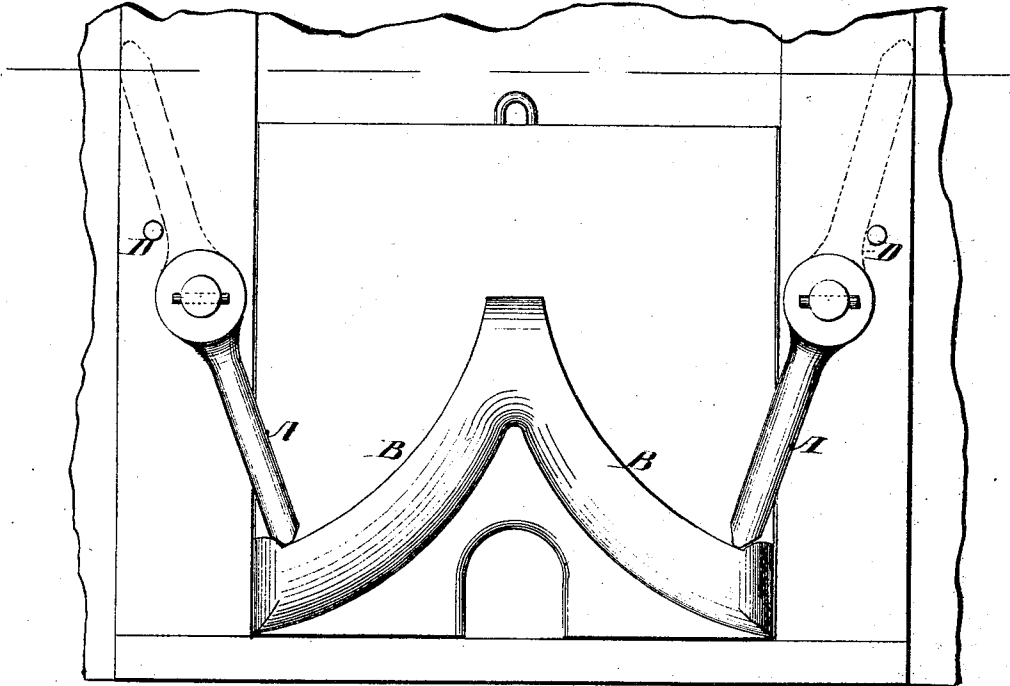
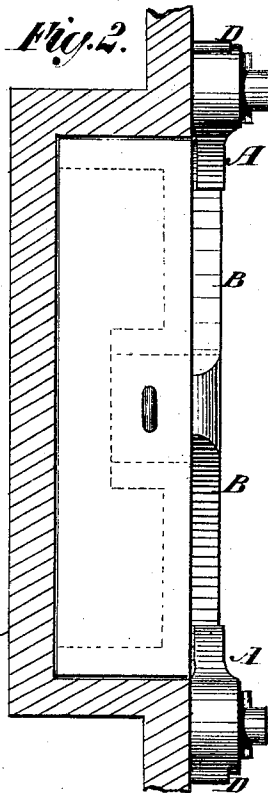


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH BOYLAND, OF TROY, NEW YORK.

IMPROVEMENT IN PUDDLING-FURNACE DOORS.

Specification forming part of Letters Patent No. **170,225**, dated November 23, 1875; application filed June 5, 1875.

To all whom it may concern:

Be it known that I, JOSEPH BOYLAND, of Troy, in the county of Rensselaer and State of New York, have invented a new and Improved Puddling-Furnace Door, of which the following is a specification:

My invention consists of one or more ribs or flanges on the door, in combination with one or more swing-stops on the door-frame contrived to fasten the door effectually whether it closes entirely or only partially, and so that the puddler can operate the fasteners with the least possible loss of time and interference with the performance of his work.

Figure 1 is a front elevation of a furnace-door with my improved fastening, and Fig. 2 is a horizontal section of the wall of the furnace above the door when it is closed.

Similar letters of reference indicate corresponding parts.

A represents the swing-stops on the door-frame or furnace-wall, and B the curved ribs on the door with which the stops act to fasten the door shut. The ribs are a little eccentric

to the pivots of the stops, so that in case any matters get under the door so as to prevent it from closing down tight the stops will fasten it all the same, although they are not permitted to swing down the ribs all the way. The dotted lines show the positions of the stops when they are thrown up to free the door for opening it, in which positions they are held by pins D, so that they can be thrown down in the most ready manner, and without delaying the puddler materially in his legitimate work.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of one or more swing-stops, A, on the furnace-wall or door-frame, with one or more curved ribs or flanges, B, on the door, substantially as specified.

JOSEPH BOYLAND.

Witnesses:

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