

J. M. FIFE.

Casting Stove-Plate Lugs.

No. 102,933.

Patented May 10. 1870.

Fig 1

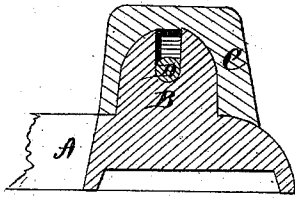


Fig 4

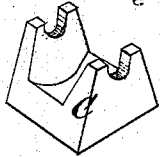


Fig 2

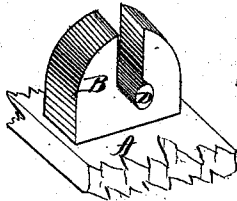
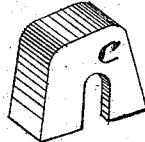


Fig 3



WITNESSES

Ed. Curt.
A. N. Mann

INVENTOR

James M. Fife
per
Alexander Massey
Atty.

United States Patent Office.

JAMES M. FIFE, OF BEAVER FALLS, PENNSYLVANIA.

Letters Patent No. 102,933, dated May 10, 1870.

IMPROVEMENT IN CASTING LUGS IN STOVE-PLATES.

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, JAMES M. FIFE, of Beaver Falls, in the county of Beaver and in the State of Pennsylvania, have invented certain new and useful Improvements in Casting Lugs on Stove-Plates; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in constructing, as hereinafter described, the patterns and chills for casting stove-plates, stove-doors, or other articles, so that lugs will be formed on such casting with holes through them, obviating the necessity of drilling such holes after the casting is completed, as now most generally done.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which represent the patterns, and will be hereafter further referred to.

A represents the pattern, having a lug, B, formed upon it. This lug is cut transversely, with a slot of such depth that its inner end will be at the point where it is desired to form the hole in lug on the casting.

A chill, C, is then placed over the projection B, fitting snugly over the same, said chill having, also, a slot extending a suitable distance, as shown in fig. 3.

The slots in the projection B and chill C form a round opening, through which is inserted a pin, D.

The whole pattern, with the chill and the pin, are then imbedded in the sand, and the pattern withdrawn, the chill and pin remaining. When, now, the molten iron is poured into the mold, it flows into the chill around the pin D, forming a lug with a hole through it. When the casting is taken out of the mold the chill C and pin D are readily removed.

I do not confine myself to any particular shape or size of the chill or cap C, as they may be of any desired form, either long or short.

Having thus fully described my invention,

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

The within-described device for casting lugs on stove-plates or other articles with holes through the lugs, substantially as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 18th day of March, 1870.

JAMES M. FIFE.

Witnesses:

A. G. McCREARY,
R. C. McKEE.