

J. F. BLESS.
SMOOTHING IRON-CHILLS.

No. 191,221.

Patented May 29, 1877

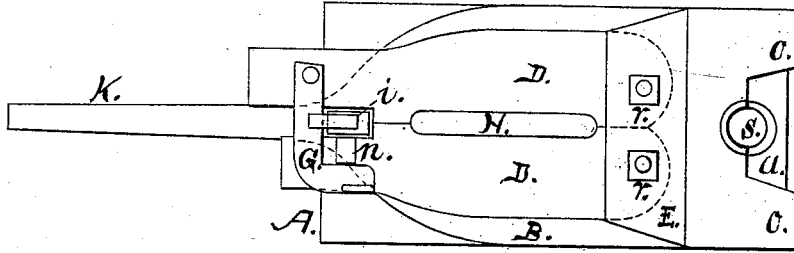


Fig. 1.

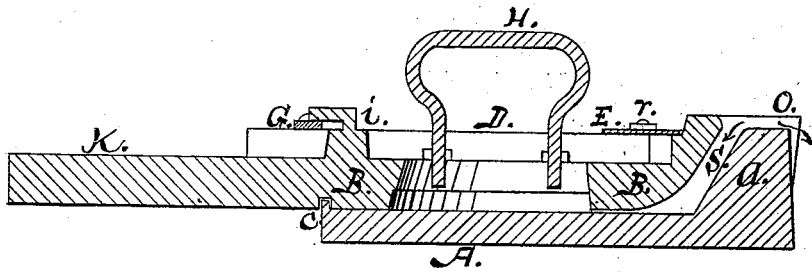


Fig. 2.

Witness
Horace Harris
[Signature]
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UNITED STATES PATENT OFFICE.

JAMES F. BLESS, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN SMOOTHING-IRON CHILLS.

Specification forming part of Letters Patent No. 191,221, dated May 29, 1877; application filed December 11, 1876.

To all whom it may concern:

Be it known that I, JAMES F. BLESS, of Newark, in the county of Essex and State of New Jersey, have invented a certain Improved Smoothing-Iron Chill or Mold, of which the following is a specification:

My improvement consists in the mode of constructing a bed or bore, and of arranging the sides and top of a smoothing-iron chill, for the better regulation in pouring the metal and taking out the irons.

Figure 1 is a plan view. Fig. 2 is a longitudinal section.

This invention is designed to be an improvement on my former patent for the same purpose, No. 134,193, dated December 24, 1872. In that there is no provision for a bed of the chill, and the sides are apart and jointed at the back, and the sides also form the top, and the upper part of the sprue catches upon the upper side of the top and makes it difficult to open the chill and let out the iron; also, the chill, not being held in place on the bed, will slip about, and by the expansion of the iron the chill will spread apart and leave a fin on the irons.

Herein is my improvement. The bed A is made as a part of the chill or mold, and is constructed with a flat surface for the face of the irons. It is provided at the heel with a post, A, against and by the sides of which the solid part B, forming the sides of the mold, rests; and on the front end of the bed is a ridge, C, suited for a notch in the part B, so that when this part B is in position against the post *a* the ridge will catch in the notch, and prevent the part B from slipping forward.

Between the inside of the post *a* and the rear of the part B, when put together, is formed a hole, S, for pouring, both parts being grooved to agree; and the top of the post is lower than the top of the part B, to pro-

vide that, when in pouring and the iron is in excess, the surplus will not run over on the chill, but over back of the post.

The top D of the mold only is divided. The part B is solid on all sides. The parts of the top D are pivoted on the pins *r*, passing through the plate E. On the front of the part B is a stud, *i*, rising above the level of the top D, and terminating in a right-angle section. On the top of one of the parts D is hung a hook, G, which turns under the end of the stud *i*, and hooks onto the knob *n* on the other part D. Thus this hook holds the top D to the part B, and, at the same time, binds the two parts D together.

The handle H, for the iron to be cast, is put in place the same as in my former patent.

When the iron has been poured by the handle K, the parts B and D together are raised at the front, and, with the iron in them, are drawn forward to the front end of the bed, when only the ends *o* rest on the bed; then by a blow the sprue is knocked off at the end of the bed. The hook G is then loosened, and the handle K raised, and the iron drops out below, and the mold is again put in position for another iron; therefore,

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

1. In a smoothing-iron mold or chill, the bed A, having the post *a* and ridge C, in combination with the part B, substantially as and for the purposes specified.

2. The divided top D, with the sections pivoted to the part B, and the hook G and knob *n*, in combination with the stud *i*, for holding the parts in position, substantially as specified, and for the purposes named.

JAMES F. BLESS.

Witnesses:

HORACE HARRIS,
CHAS. R. POST.