(No Model.)

C. FOX.

SAD IRON.

No. 428,836. Patented May 27, 1890.

Fig. 1.

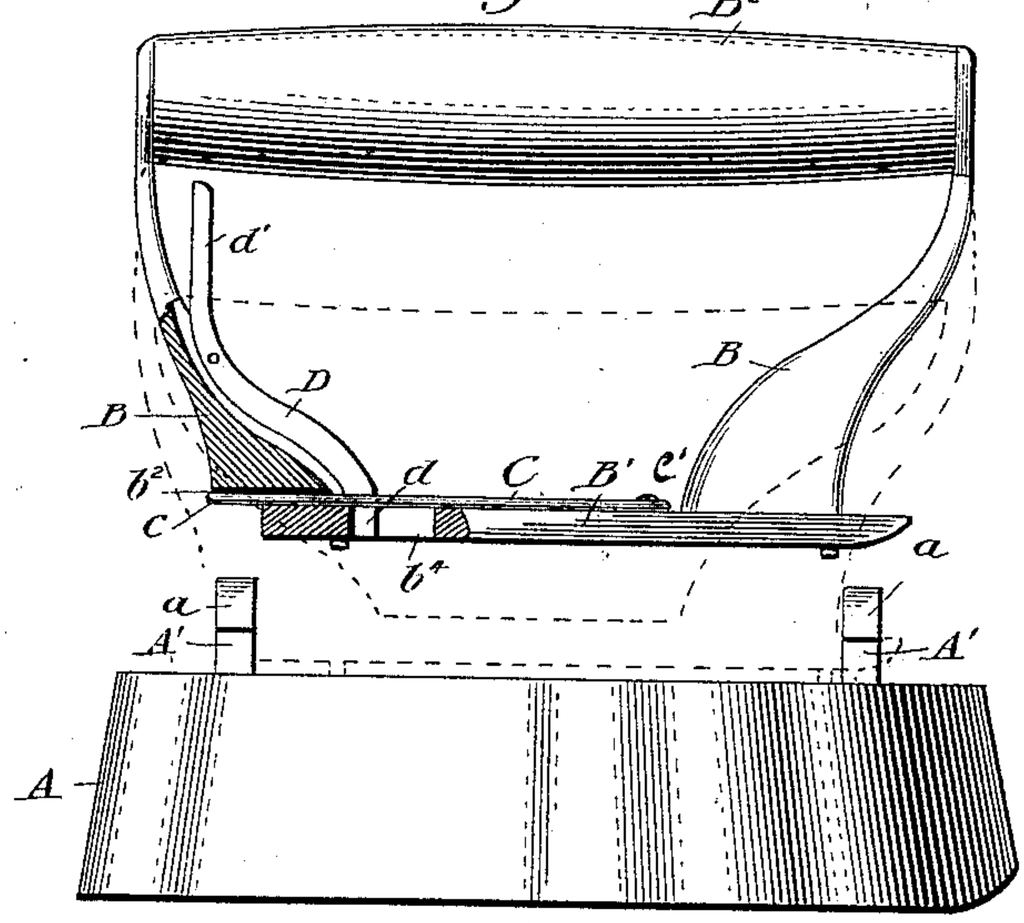


Fig. 2

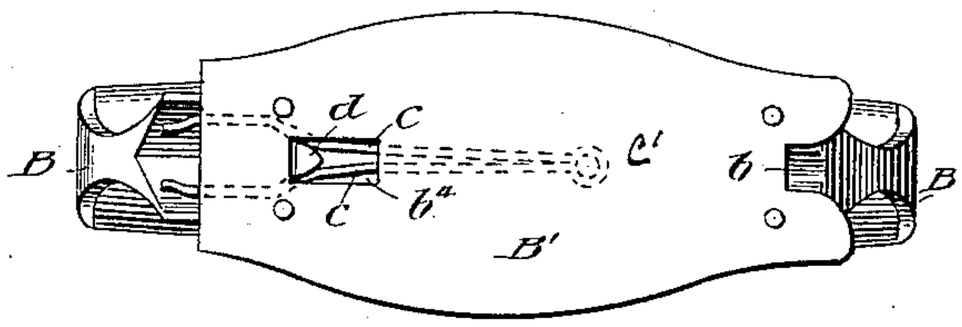
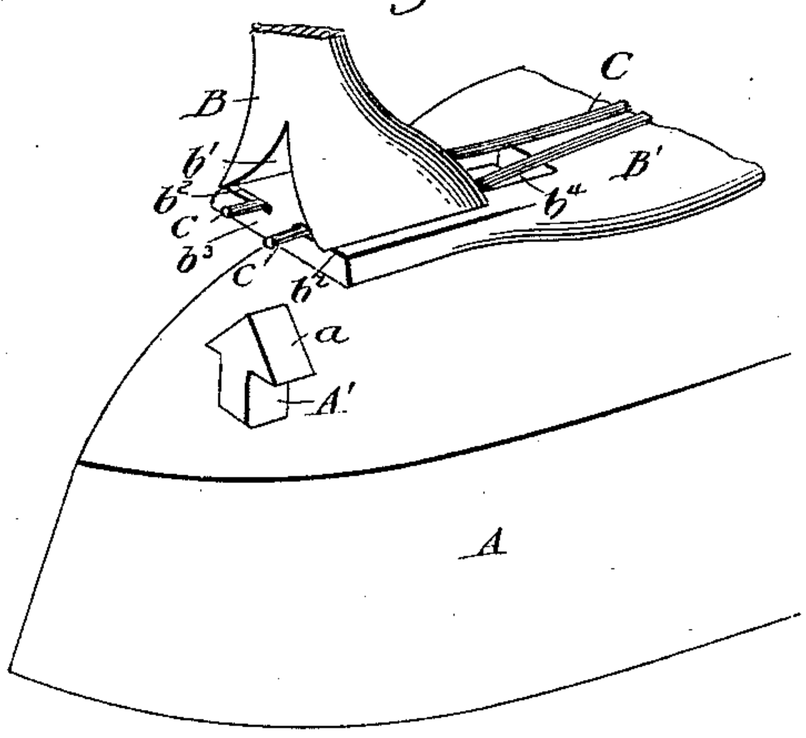


Fig. 3.



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CHRISTIAN FOX, OF CHRISTIANA, ASSIGNOR OF ONE-HALF TO WILLIAM J. AITKIN, OF GAP, PENNSYLVANIA.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 428,836, dated May 27, 1890.

Application filed August 17, 1889. Serial No. 321,106. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN FOX, of Christiana, in the county of Lancaster and State of Pennsylvania, have invented a new and Improved Sad-Iron, of which tha following is a full, clear, and exact description.

The invention relates to that class of smoothing or sad irons in which the handle is made detachable; and the object of the invention is to so improve sad-irons of this character as to cause the handle to be firmly secured to the body and by simple catch devices that enable the handle to be attached and detached expeditiously.

To these ends the invention consists in the novel details of construction and combination thereof, as hereinafter particularly described, and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a sad-iron embodying my improvements, the handle being shown detached and partly in section, the position of the handle when secured in place being indicated in dotted lines. Fig. 2 is an inverted plan view of the handle, and Fig. 3 is a view in perspective of a portion of the sad-iron on a somewhat larger scale.

In constructing a sad-iron in accordance with my invention the body A thereof, which may be made hollow or solid, as desired, is provided on its upper surface with two posts A′, one near each end, the said posts being formed with arrow-heads *a*.

The handle consists of two standards or arms B B, secured to a base-plate B′ and preferably curving outward and upward, the extreme upper ends lying in a vertical plane. A bar or handle proper B^2 unites the said arms or standards in the usual manner. At one end the base-plate B′ is notched, as at *b*, for enabling it to be passed beneath one of the headed posts A′ of the body.

The arm B, at the end opposite the notch *b*, is formed with a triangular recess *b′*, preferably so formed as to snugly receive the arrow-head of a post A′, and in the bottom of said arm at each side is formed a longitudinal slot or recess b^2, leaving a web or neck b^3 dividing the two notches.

To the upper side of the base-plate B′ of the handle a spring-catch C is secured, which consists of two spring-arms *c c*, formed in one piece and held to the base-plate by the bent portion *c′* and lying on the base-plate in a horizontal plane.

The arms *c c* normally tend to approach each other and lie in the recesses or slots b^2 sufficiently close together to grasp the arrow-head *a* of the post A′ when brought down against the same.

In securing the handle in place on the body the notched end *b* of the base-plate of the former is slipped under one of the posts A′, and the opposite end, provided with the spring-arms, is then lowered, and as the spring-arms strike the inclines of the arrow-head they are separated until the said head passes between them, whereupon they will approach each other, springing in beneath the head and securely locking the handle in place.

To provide for the ready release of the spring-catch for detaching the handle, I have provided a releasing-lever D, which is pivoted at the back of that arm B that is adjacent to the said catch. The lever D is slightly curved, approximating elbow form, and has a downwardly-extending cam-head *d*, Fig. 2, which extends between the spring-arms *c c* and works in a slot b^4, formed for it in the base-plate B′.

In operation, upon the upper end *d′* of the lever being pressed toward the arm B, the cam-head *d* forces the spring-arms *c* apart and out of engagement with the headed post A′, allowing the handle to be readily removed.

The handle may be reversed with respect to the ends of the body of the iron, as the notched end of the base-plate and the spring-catch will engage, respectively, either post A′.

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

1. In a sad-iron, a handle consisting of the base B′, having a notch *b* in one end, the standards B, secured to the base, the standard at the end opposite the notch *b* being provided with the recess *b′*, and the bar B^2, con-

necting the standards, in combination with the body of the iron provided with posts having arrow-heads and spring-arms secured to the base of the handle and adapted to engage one of the said posts, substantially as described.

2. The combination, in a sad-iron, of a body provided with headed posts, a handle comprising a base-plate notched at one end and vertical arms supporting the handle proper, spring-arms secured to said base-plate, and a releasing-lever for said spring-arms, the lever being pivoted to one of the vertical arms of the handle, and having a cam-head extending between the spring-arms, substantially as described.

3. The combination, with the body A, provided with posts A′, having arrow-heads *a*, of the handle comprising a base-plate B′, vertical arms B, supporting the handle proper B^2, the base-plate being notched at one end, as at *b*, and the arm B at the opposite end being formed with a triangular recess *b′* to correspond with the head of a post A′, a spring-catch consisting of spring-arms secured to the base-plate B′ of the handle and extending into line with the recess *b′*, and a releasing-lever D for said spring-arms, having a cam-head extending between the latter, substantially as described.

CHRISTIAN FOX.

Witnesses:
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JOHN FOX, Jr.