

J. H. VAIL.  
Improvement in Sad Irons.

No. 125,100.

Patented March 26, 1872.

Fig. 1.

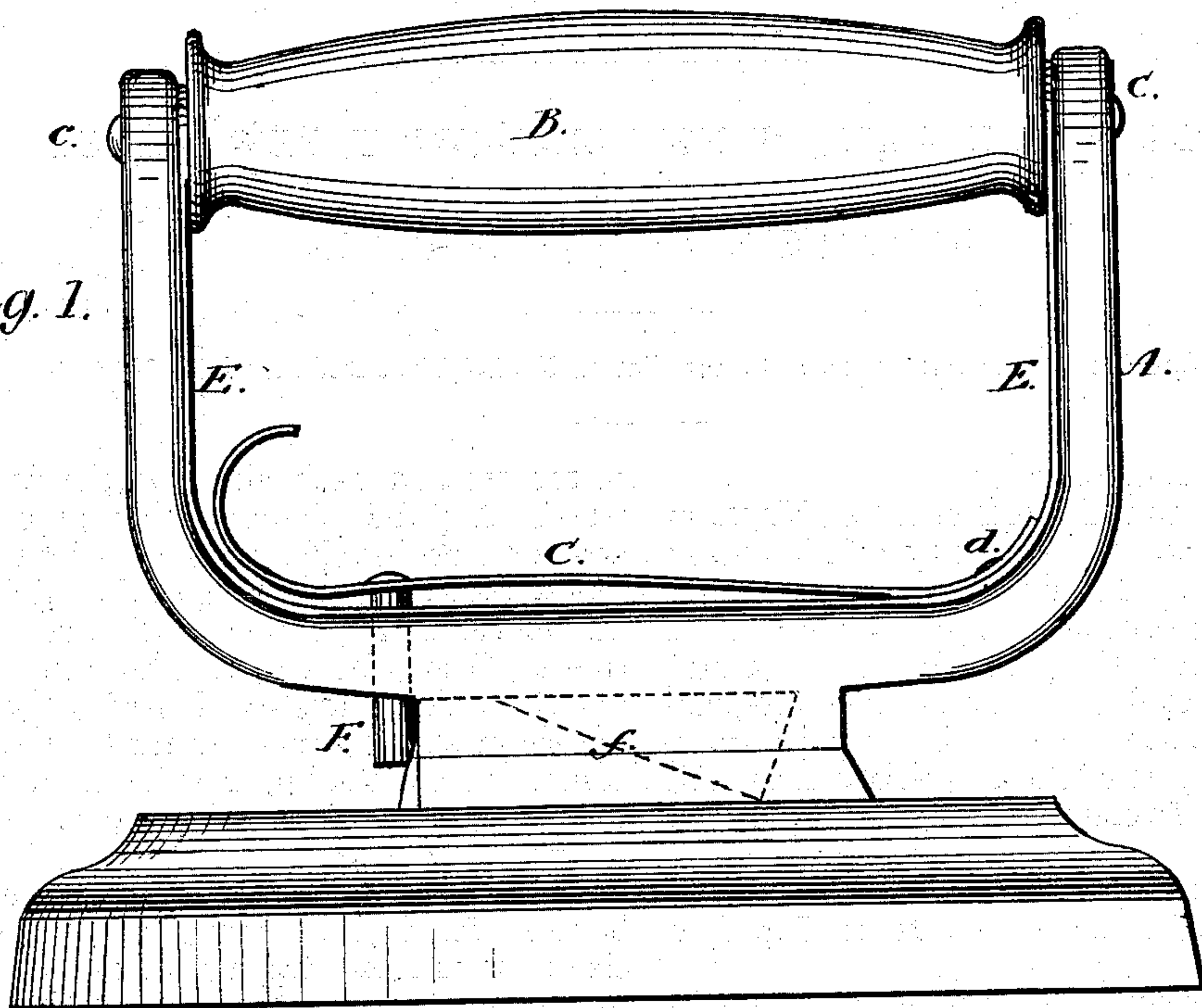


Fig. 2.

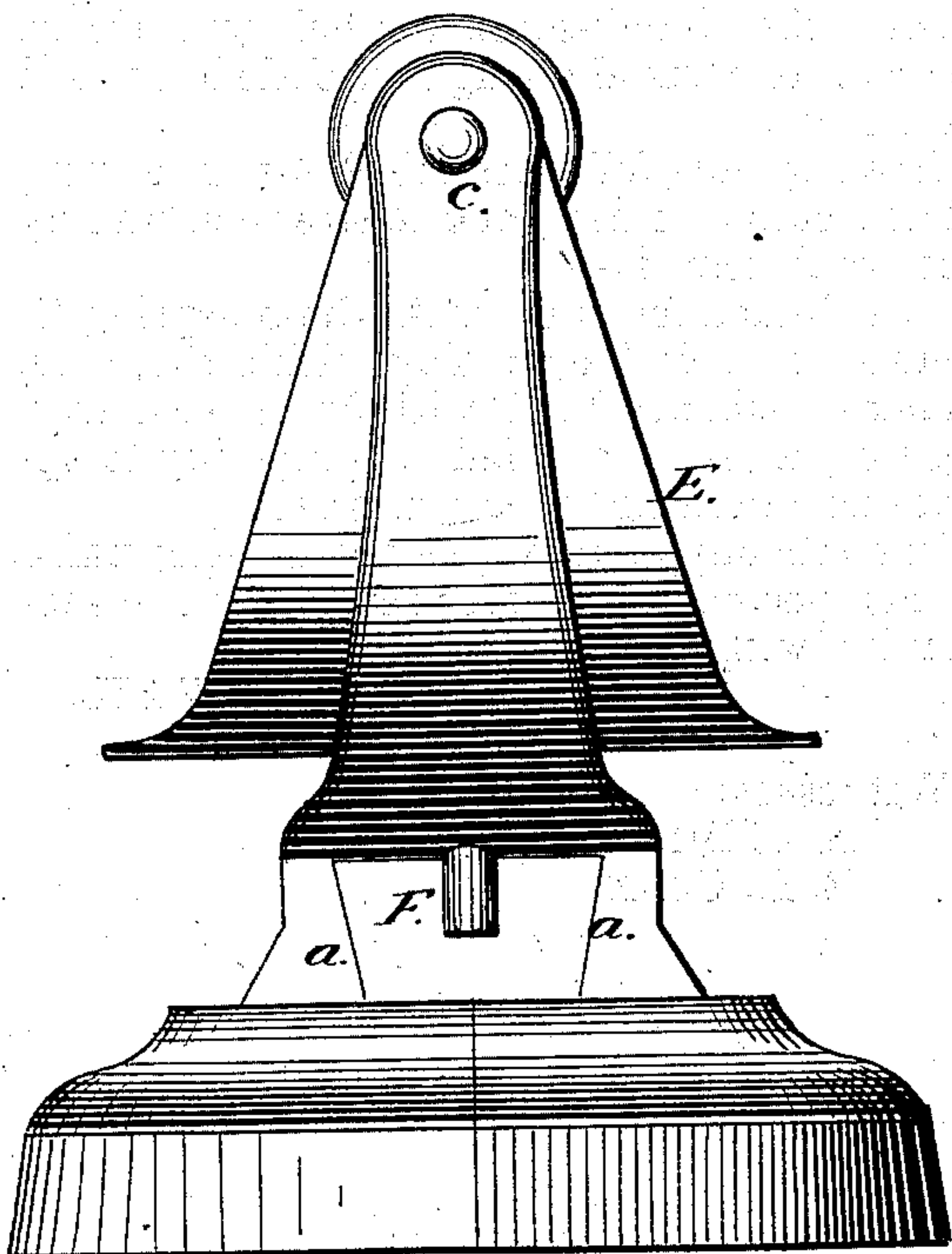
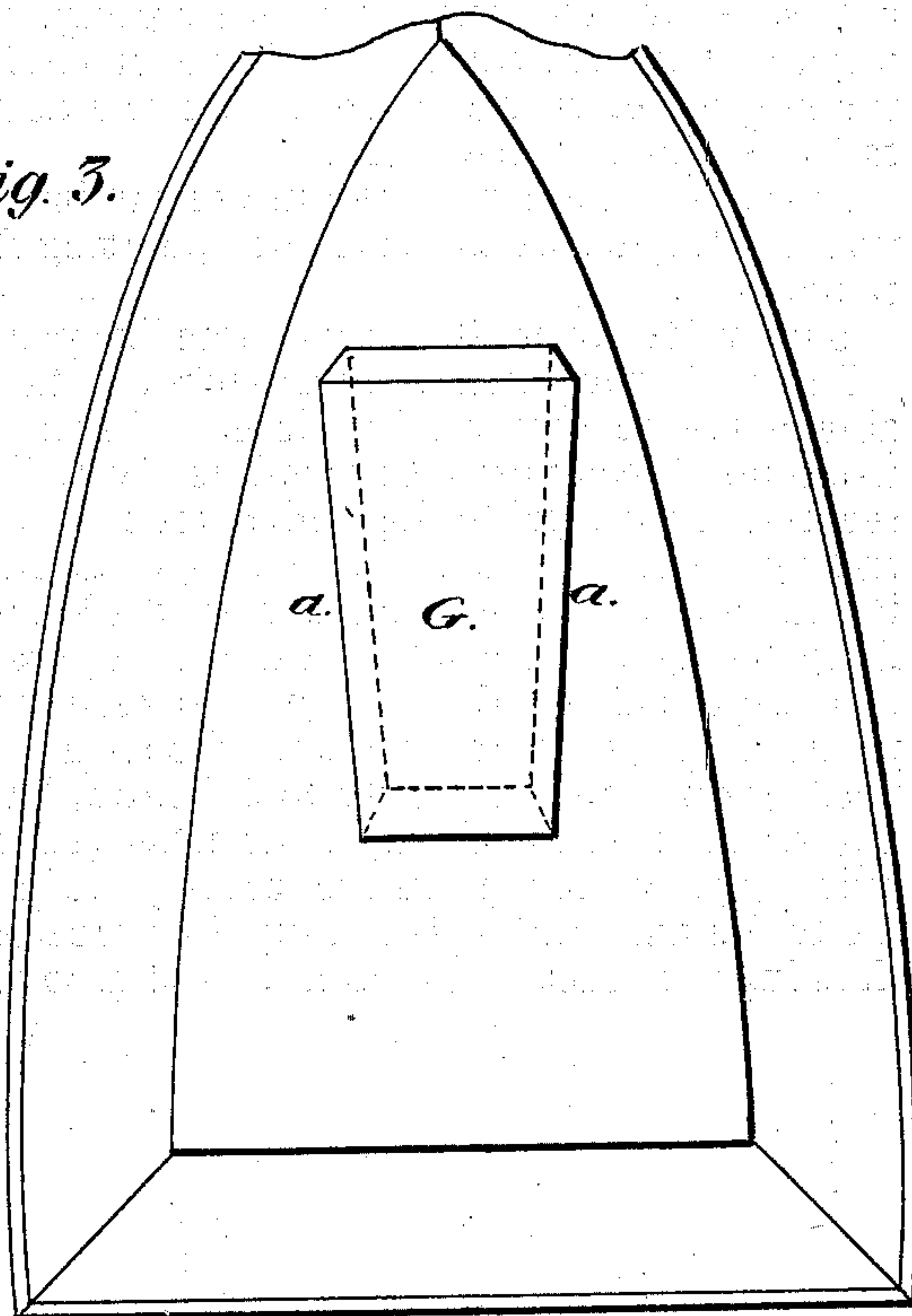


Fig. 3.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JONATHAN H. VAIL, OF NEW BRUNSWICK, NEW JERSEY.

## IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. 125,100, dated March 26, 1872.

*To all whom it may concern:*

Be it known that I, JONATHAN H. VAIL, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Sad-Irons; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of these specifications, and to the letters of reference marked thereon, in which—

Figure 1 represents a side elevation of my device; Fig. 2, a front elevation; Fig. 3, a plan.

My invention consists in providing a detachable sad-iron holder with a thumb-spring having a bolt riveted thereto within the shield for the purpose of securing the handle to a dove-tailed lug cast on the iron.

To enable others to make use of my invention I will describe the mode of operating the same.

Similar letters of reference denote like parts.

In Fig. 1, the letter A represents a detachable holder cast in a solid piece. The upper cross-bar B, composed of wood, is pivoted or secured at each end to the holder, at *c c*, by any ordinary method. C is a thumb-spring, having its tail permanently attached to the holder A by means of the small bolt *d*, which passes through the shield E and serves to keep it in position. F is a bolt, riveted to the spring C, passing through the spring and holder, having its lower end beveled on the inner side in order to grasp and hold more securely the handle to the triangular-shaped lug G on the iron. This lug G is cast on the iron, and is grooved

or recessed on each side *a a*, the rear end of which may be chamfered to give it more strength, or beveled, as shown by the line *f*. When beveled, the detached handle becomes automatic in adjustment. The front end of the lug G may be constructed with either an obtuse or right angle. I preferably make it obtuse or slightly inclined forward, so that by constant wear the bolt F will still have a binding force and keep the handle on the lug G snug to its position.

By this arrangement a single handle may be used for a large number of irons of any size or weight having the lug the same, is not liable to get out of order, the shield protecting the hand of the operator from the heat, and the iron replaced by a heated one, whenever desired, with but little difficulty, as by simply raising the thumb-screw the bolt will release the handle, thus allowing it to slide backward on the lug.

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

The detachable holder A, thumb-spring C, secured to bolt F operating within shield E, triangular-shaped lug G with grooves *a a*, having its rear end *f* beveled and tapering to operate as herein shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JONATHAN H. VAIL.

Witnesses:

A. J. BINGHAM,  
R. H. COOK.