

W. H. D. SWEET.

IRON FOR SMOOTHING CLOTHES.

No. 183,783.

Patented Oct. 31, 1876.

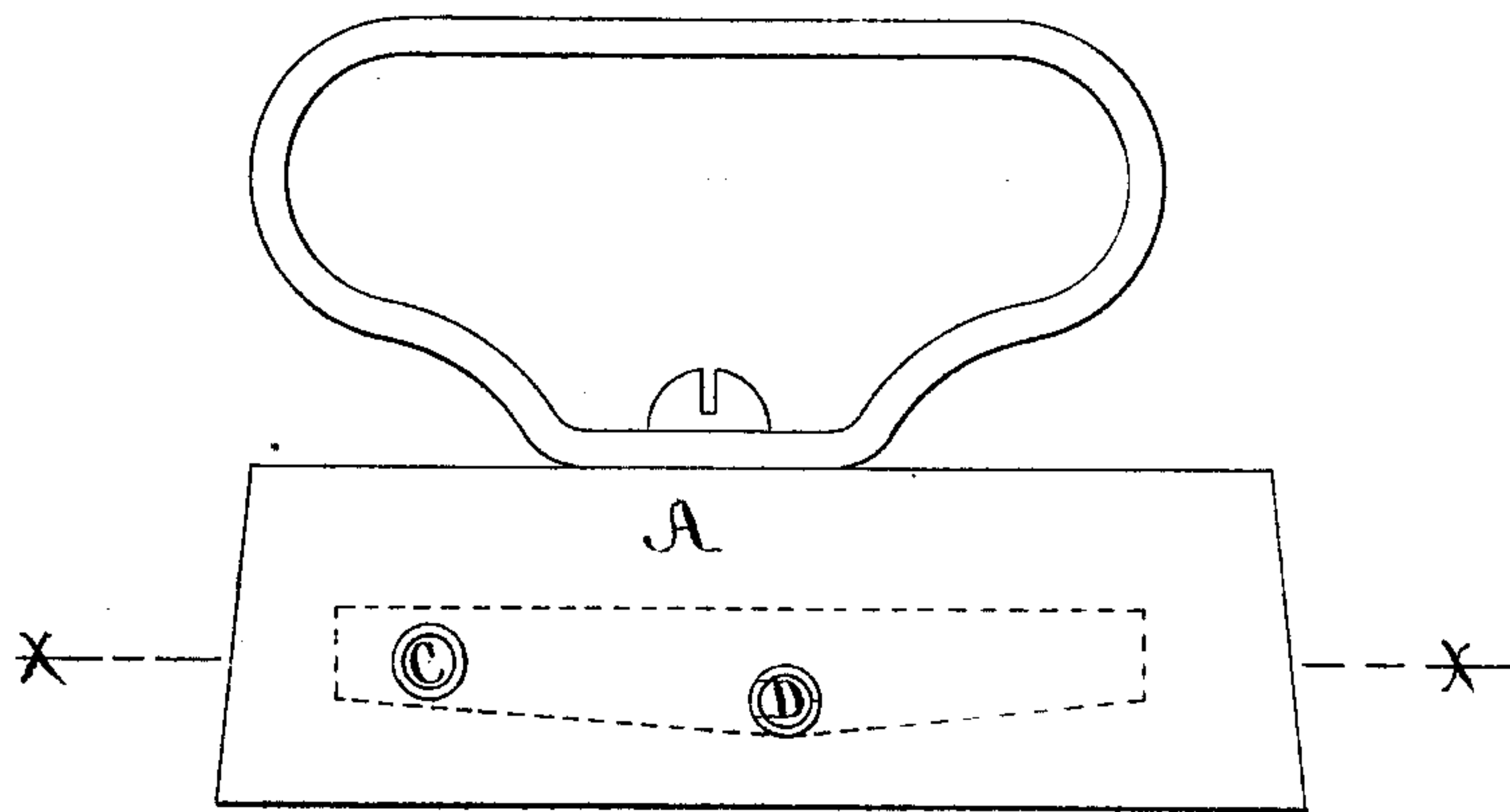


FIG. 1.

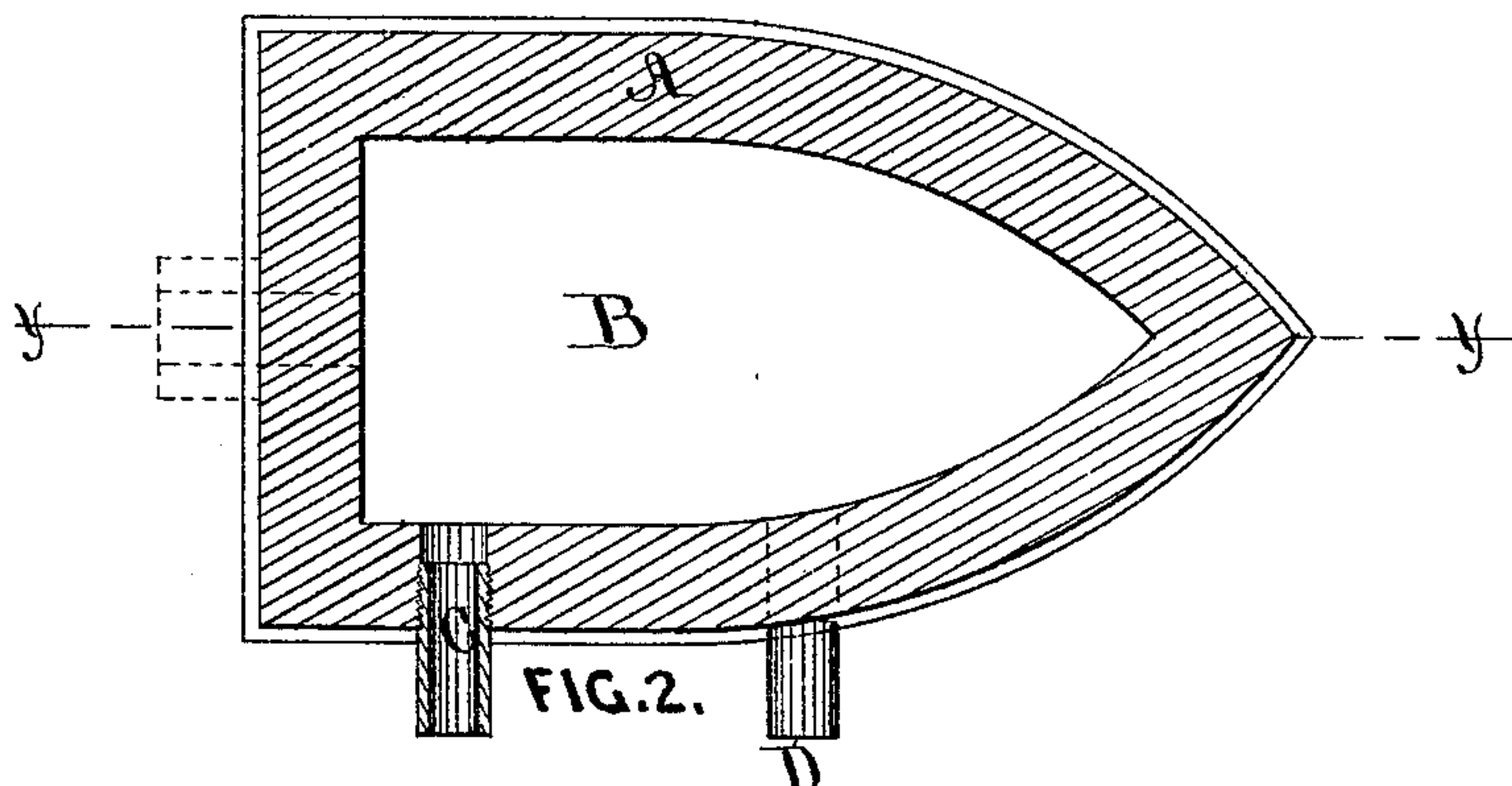


FIG. 2.

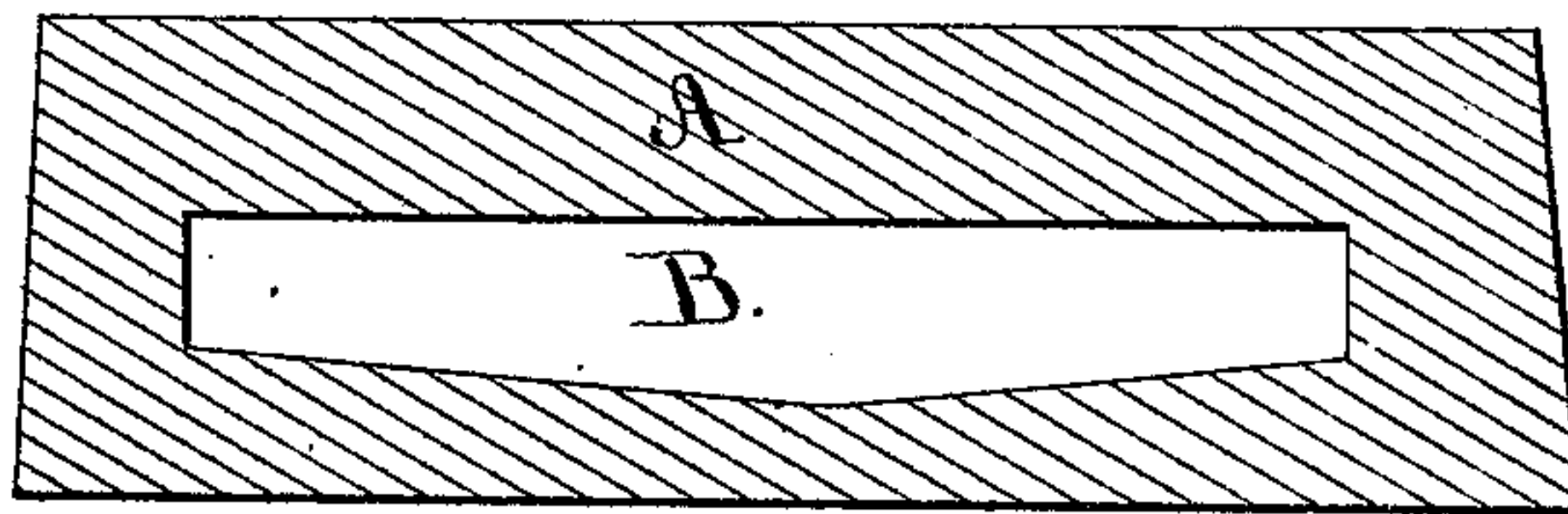


FIG. 3.

Witnesses.

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UNITED STATES PATENT OFFICE

WILLIAM H. D. SWEET, OF ALBANY, NEW YORK.

IMPROVEMENT IN IRONS FOR SMOOTHING CLOTHES.

Specification forming part of Letters Patent No. **183,783**, dated October 31, 1876; application filed February 21, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. D. SWEET, of the city and county of Albany and State of New York, have invented a new and useful Improvement on Irons for Smoothing, Pressing, or Fluting Clothes, of which the following is a full and exact description, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a side elevation of a sad-iron; Fig. 2, a horizontal section at the line *x x*, and Fig. 3 a longitudinal section at the line *y y*.

My invention consists in constructing these irons with a tight chamber, as herein shown and described, so that steam or other heated fluids may be admitted therein, either in a constant or an intermittent stream, for the purpose of imparting thereto the requisite degree of heat.

As shown in the drawing, A is the body of the iron, which may be made in any form required to suit the purpose for which it is to be used; B, a steam-tight chamber formed in the body of the iron, having in its bottom a depression, formed substantially as shown in Fig. 3, for the purpose of draining the water therefrom, which I preferably make near the bottom of the iron, so that the heat will be more readily conducted through the body of the metal at that surface; C, an induction-opening, provided with a coupling-pipe for attaching thereto a flexible pipe for conveying the steam into the chamber B; D, an eduction-opening, leading from the chamber B at the lowest point of its depression, so that the water will flow freely therefrom by means of its gravity; it is also provided with a coupling-pipe, to which another flexible tube is connected, to carry off the condensed or cooler portion of the fluids from the chamber.

The eduction-tube may be provided with any proper appliance to govern the flow of steam or fluids through the chamber, so as to prevent any useless waste thereof.

The induction-tube is connected to the supply-pipe of a steam-generator, and, by means of the current of steam passing into the chamber B, the iron is constantly kept properly heated, so as to avoid the delays and loss of time incident to the changing and reheating of the irons.

Instead of steam, water or other fluids properly heated may be circulated through the chamber for the purpose of heating the irons; but, preferably, I use steam.

When preferred, the flexible tubes may be dispensed with, and the heating effected by an intermittent flow of steam. For this purpose I make a single opening, of greater diameter, into the chamber, as indicated by the dotted lines in Fig. 2, which serves for the purpose of admitting the steam into the chamber, and the escape of the condensation therefrom. When constructed in this manner I make the tube or pipe surrounding such opening so as to attach it readily to a valve of a steam-supply pipe; but, preferably, I make my irons with the flexible tubes, as hereinbefore described, as by so doing it is manifest that a single iron only will be required for the use of each operative.

I claim as my invention—

The combination, in the iron A, of the chamber B, having an inclined bottom, with the induction-opening C and eduction-opening D, as and for the purpose herein specified.

WILLIAM H. D. SWEET.

Witnesses:

SANFORD R. HASKELL,
WILLIAM H. LOW.