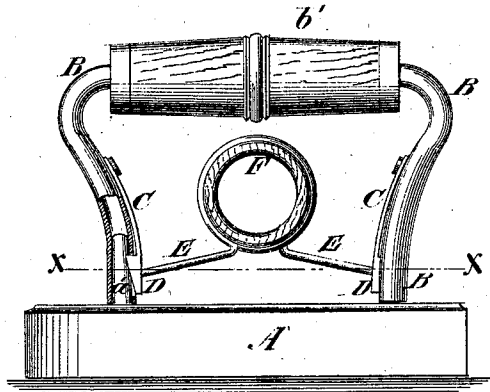


O. SWIFT.  
SAD-IRON.

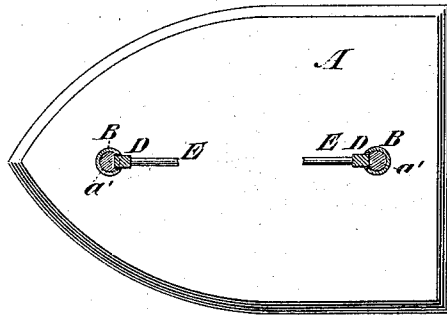
No. 169,496.

Patented Nov. 2, 1875.

*fig. 1.*



*fig. 2.*



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

OLIVER SWIFT, OF MADISON, WISCONSIN.

## IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. 169,496, dated November 2, 1875; application filed September 17, 1875.

*To all whom it may concern:*

Be it known that I, OLIVER SWIFT, of Madison, in the county of Dane and State of Wisconsin, have invented a new and useful Improvement in Sad-Irons, of which the following is a specification:

Figure 1 is a side view of my improved sad-iron, part being broken away to show the construction. Fig. 2 is a horizontal section of the same, taken through the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved sad-iron, which shall be so constructed that the handle may be detached when the iron is being heated, so that the said handle will not become hot.

The invention consists in the combination of the notched pins, the tube provided with a wooden hand-piece, the catches, the springs, and the wooden ring, whether the side springs be used or not, with each other, and with the body of a sad-iron; and in an improved sad-iron, in which the body is made of glass, as hereinafter fully described.

A is the body of the sad-iron, to the forward and rear parts of the upper side of which are attached, or upon it are formed, pins *a'*. The pins *a'* fit into the ends of the tube B, which is bent into proper shape for a handle, and has a wooden hand-piece, *b'*, placed upon its middle part. The cavity of the tube B may be filled with plaster-of-paris to lessen its heat-conducting power. To the inner sides of the end parts of the tube B are attached the upper ends of two springs, C, to the lower ends of which are attached two catches, D,

that pass in through slots in the said tube B, and enter notches in the pins *a'*, to connect the handle and body of the sad-iron together. The lower ends of the catches D and the upper ends of the pins *a'* are beveled off, so that the said catches may operate automatically when the handle is pushed down upon the said pins. To the catches D are attached the ends of the springs E, the other ends of which are coiled around or otherwise attached to a wooden ring, F, through which a finger of the hand that holds the handle may be passed, so that the catches D may be drawn out to release the pins *a'* by drawing the ring F upward. If desired, the side springs C may be omitted, and the catches D held in place and operated by the spring E. The body A of the sad-iron is designed to be made of glass, as furnishing a better smoothing-surface than metal.

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

1. The combination of the notched pins *a'*, the tube B, provided with a wooden hand-piece, *b'*, the catches D, the springs E, and the wooden ring F, with each other, and with the body A of a sad-iron, substantially as herein shown and described.

2. An improved sad-iron, in which the body A is made of glass, substantially as herein shown and described.

OLIVER SWIFT.

Witnesses:

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