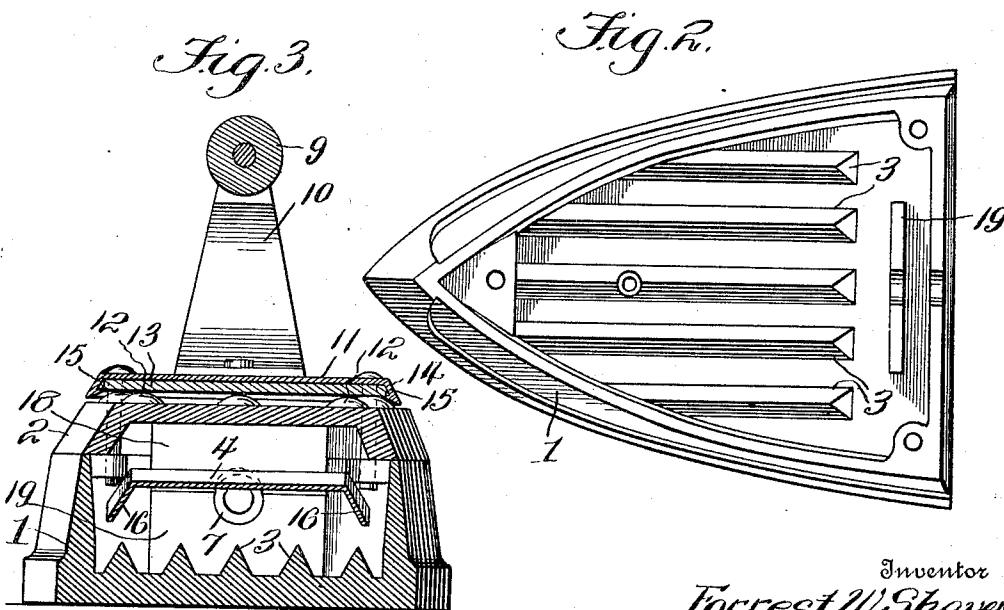
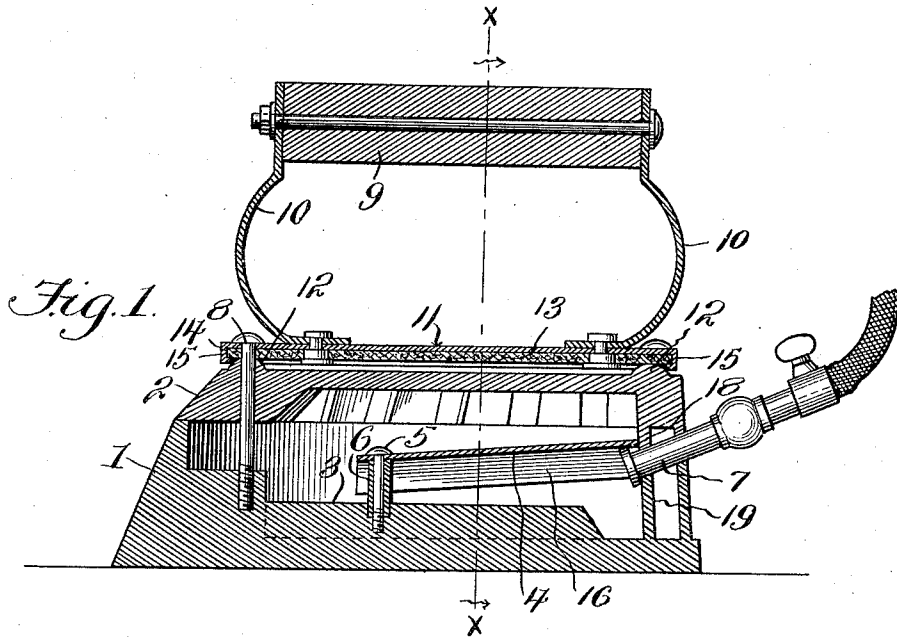


F. W. SHAVER.
SAD IRON.
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1,006,299.

Patented Oct. 17, 1911.



Witnesses

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SAD-IRON.

1,006,299.

Specification of Letters Patent.

Patented Oct. 17, 1911.

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To all whom it may concern:

Be it known that I, FORREST W. SHAVER, a citizen of the United States, residing at Swissvale, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Sad-Irons, of which the following is a specification.

The present invention provides a selfheating iron for finishing laundried articles, the purpose being to devise a novel form of handle which will overcome the necessity for using a holder of any kind to prevent burning of the hand. A further purpose of the invention being to insure a uniform distribution of the heat, whereby the surface of the iron presents an even temperature, thereby resulting in uniformity of work.

The invention consists of the novel features, details of construction and combination of parts, which hereinafter will be more particularly set forth, illustrated in the accompanying drawing, and pointed out in the appended claim.

Referring to the drawing, forming a part of the specification, Figure 1 is a vertical central longitudinal section of a selfheating sad iron embodying the invention. Fig. 2 is a top plan view of the body of the iron, the upper portion being removed as well as the deflector. Fig. 3 is a transverse section on the line $x-x$ of Fig. 1.

Corresponding and like parts are referred to in the following description, and indicated in all the views of the drawing, by the same reference characters.

The device comprises a hollow body 1, a top 2 and a handle. The body 1 has the top side of its bottom portion formed with longitudinal flutes or ribs 3, which are substantially of V-form in cross section. These ribs result in the provision of an extended surface for the flame to play upon, thereby heating the surface of the iron more readily by conduction and convection. By having the ribs 3 extend longitudinally the flame from the burner is unobstructed in its passage and may engage the surfaces of the ribs and bottom throughout the longitudinal extent of the iron. A deflector 4 is located above the bottom of the iron and inclines slightly to the plane of the face of the iron, whereby the flame is directed and held in contact with the bottom of the iron from butt to point. A machine screw 5 secures

the plate or deflector 4 to the bottom of the iron and a sleeve 6 surrounds such screw and supports the front portion of the plate a given distance from the bottom of the iron. The rear end of the plate is supported upon an inner projection, which preferably consists of the tip of the burner 7, which is supported in the rear wall of the body of the iron. The top 2 may be held in place by suitable means embodying a fastening 8.

The handle comprises a grip 9, uprights 10, and a plate 11, the latter being spaced from the top of the iron by means of projections 12. The uprights 10 are outwardly bowed and are slightly resilient, thereby adding materially to the comfort of the user and overcoming to a certain extent the fatigue experienced by using sad irons having the grip connected to the body of the iron by rigid and unyielding means. The plate 11 is lined with some refractory material 13, such as sheet asbestos, the latter being retained in place in any manner, preferably by having the plate 11 formed with a depending rim 14, which is undercut upon its inner wall to provide a shoulder 15, which underlaps the outer edge portion of the lining 13, the part of the rim beyond the shoulder 15 being beveled so as to direct the lining into place when pressing the same home. The plate 11 is spaced from the top of the iron to admit of a current of air circulating between the iron and base plate of the handle to prevent overheating of the grip so that the iron may be handled without the use of a holder such as is generally made necessary in the operation of sad irons as generally constructed.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claim appended hereto.

The deflector 4 is provided along opposite edges with depending flanges 16, which re-

tain the heat and flame in contact with the bottom of the iron for a greater length of time than would otherwise be the case.

5 The burner 7 passes through an opening in the rear wall of the iron and is clamped between a projection 18 formed upon the top 2 and a projection 19 forming a part of the body, said projections 18 and 19 having notches in their edges to snugly receive the
10 burner, which is clamped between them. The projections 18 and 19 are set inward from the rear wall of the iron. The top 2 consists of a casting which is removable from the body and is retained in place by
15 suitable fastening means.

Having thus described the invention what is claimed as new, is:

A sad iron comprising a body and a separable top, projections near the rear of the body and top set inward from the rear wall and having notches in their opposing edges, 20 and a burner fitted in an opening in the rear wall of the iron and clamped between the projections of the top and body.

In testimony whereof I affix my signature 25 in presence of two witnesses.

FORREST W. SHAVER.

Witnesses:

P. D. REMINGTON,
R. W. EDMUNDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
