

T. HAGERTY.
Sad-Iron Heater.

No. 133,852.

Patented Dec. 10, 1872.

Fig. 1.

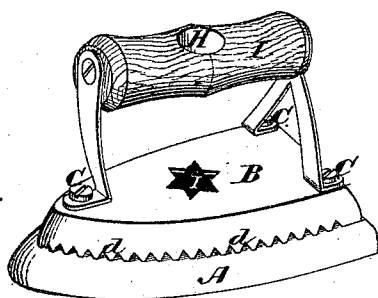


Fig. 2.

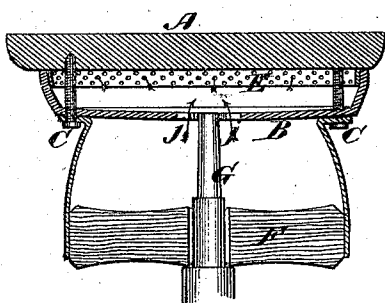
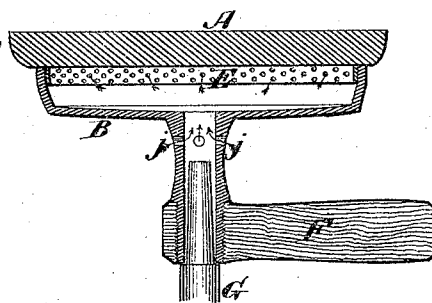


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

THOMAS HAGERTY, OF RICHMOND, VIRGINIA.

IMPROVEMENT IN SAD-IRON HEATERS.

Specification forming part of Letters Patent No. 133,852, dated December 10, 1872.

To all whom it may concern:

Be it known that I, THOMAS HAGERTY, of Richmond, in the county of Henrico and State of Virginia, have invented a new and Improved Sad-Iron; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a perspective view of a sad-iron constructed in accordance with my invention; Fig. 2, a longitudinal section of the same in position for heating; and Fig. 3 is a similar view of a modification.

Similar letters of reference in the accompanying drawing indicate like parts.

My invention has for its object to provide an improved sad-iron for the use of travelers and others, particularly in hotels and boarding-houses, which can be heated upon an ordinary gas-burner. To this end the invention consists in constructing the iron with a perforated cap and shield, supporting a handle, which is adapted to fit upon a gas-burner so that the jet of gas shall be directed within the shield against the top of the iron, as I will now proceed to describe.

In the drawing, A is the sad-iron, preferably made small in size, and B is the shield, secured to its upper surface by screws C, or other convenient means. The sides and ends of the shield are turned down so as to form flanges, the edges of which are perforated or serrated, as shown at *d*, Fig. 1. The flanges of the shield are lined upon the inside with the perforated metal lining E, secured to the iron or shield, sheet metal being preferably employed. By this construction a heating-chamber is formed upon the iron, for a purpose to be presently described. F is the handle, which I prefer to make of wood, secured to the top of the

shield or iron, and provided with a central vertical opening, H, to fit over an ordinary gas-burner, G, in the position shown in Figs. 2 and 3. In Figs. 1 and 2 the shield is shown with a central opening, I, into which the end of the gas-burner enters, and in Fig. 3 a central tube rises from the shield to receive the burner.

When the iron is to be heated it is inverted and placed upon the gas-burner, and the gas ignited. The flame is directed within the shield, which also acts as a deflecting-plate to distribute it over the entire top of the iron. The perforated lining and the perforations or notches *d* in the shield permit the gas to pass to the edges of the iron in small jets to heat the same, while they also retard, to a certain degree, the escape of such flames.

Combustion is supported by the admission of oxygen through perforations *j* around the burner, as in Fig. 2, or in the central tube, as in Fig. 3.

By this construction a heating-chamber is formed upon the iron, which heating-chamber also acts as a combustion-chamber, and prevents the escape of smoke to the smoothing-face of the iron.

Having thus described my invention, what I claim as new is—

1. In combination with the sad-iron, the shield with its central aperture or tube and the perforated lining, substantially as described, for the purpose specified.

2. In combination with the sad-iron, the perforated or notched shield B, perforated lining E, and perforated handle F, substantially as described, for the purpose specified.

THOMAS HAGERTY.

Witnesses:

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