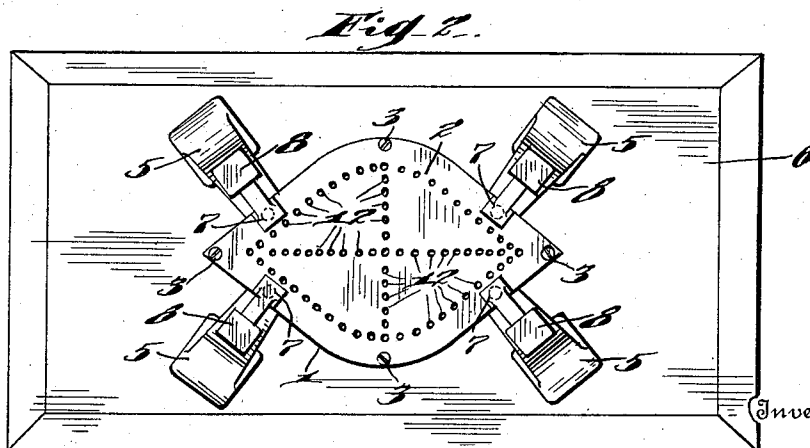
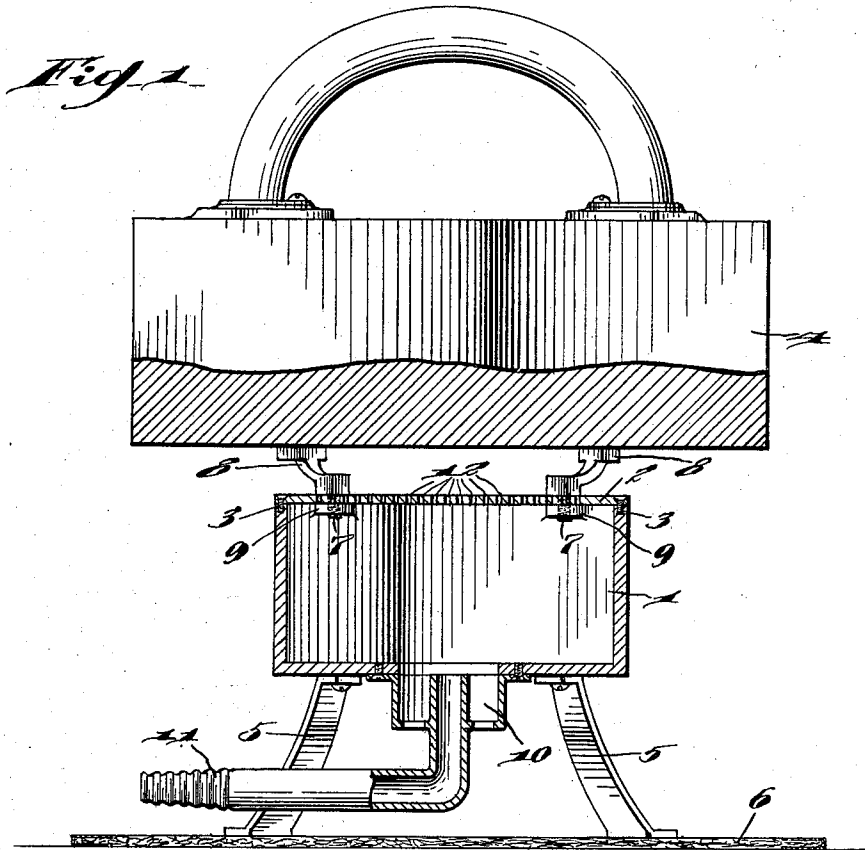


M. J. DUFFIELD.
SAD IRON HEATER.
APPLICATION FILED JULY 14, 1911.

1,023,137.

Patented Apr. 16, 1912.



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UNITED STATES PATENT OFFICE.

MARTHA J. DUFFIELD, OF WOODBURY, NEW JERSEY.

SAD-IRON HEATER.

1,023,137.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed July 14, 1911. Serial No. 638,487.

To all whom it may concern:

Be it known that I, MARTHA J. DUFFIELD, a citizen of the United States, residing at Woodbury, in the county of Gloucester and State of New Jersey, have invented certain new and useful Improvements in Sad-Iron Heaters, of which the following is a specification.

My invention relates to improvements in sad iron heaters, the object of the invention being to provide a relatively small heater adapted to be supported on the ironing board, and which will effectually heat the iron with a minimum expenditure of gas or gasoline as the case may be.

A further object is to provide a burner with a burner orifice corresponding in shape to the shape of the bottom of the sad iron, yet appreciably smaller in area than the area of the bottom of the sad iron, whereby the flame will spread over the bottom surface of the iron without burning up the sides of the iron.

A further object is to provide a burner of this character which enables the irons to be heated at the ironing board, and which dispenses with the necessity of employing a self-heating iron with its undesirable tubing which must be drawn backward and forward over the board.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings: Figure 1, is a view partly in elevation and partly in vertical longitudinal section illustrating my improvements, and Fig. 2, is a plan view of my improved heater.

In the construction shown in Figs. 1 and 2, in which the heater is constructed to burn gas, 1 represents a hollow metal body having a cap plate 2 secured thereon by means of screws 3. This cap plate and the body are of general diamond shape, except that the sides are rounded and not angular. In other words, the body is of a shape corresponding to the shape of an ordinary sad iron, but is appreciably smaller in area than the surface of the sad iron 4, as seen most

clearly in Fig. 1. The body 1 is supported on suitable feet 5 adapted to be spaced from the ironing board by means of an asbestos sheet 6. The top plate 2 is also secured to the body by means of screw-threaded lugs 7, integral with outwardly extending arms 8, said screw-threaded lugs 7 projected through openings in the top plate, and into threaded openings in lugs 9, integral with body 1. The arms 8 extend outwardly beyond the plane of the side walls of the body, and receive the iron 4 thereon. The bottom of the body 1 is open, and provided with a Bunsen burner 10, with which a pipe 11 communicates, said pipe 11 adapted to receive an ordinary gas tube to supply the gas to the burner. Top plate 2 is provided with a plurality of burner orifices 12, and these orifices are arranged in accordance with the outline of the body, or in any other suitable formation which will distribute the flame throughout the widest possible area.

The heater is adapted to be supported on an ordinary ironing board, and the iron 4 positioned on the arms 8. As the heater is of appreciably smaller area than the area of the bottom surface of the iron, the flame is confined to the bottom surface of the iron, and does not pass around the edges of the iron which would cause a waste of heat units, and a corresponding waste of gas.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

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

A sad iron heater comprising a hollow elongated body, legs supporting said body, and extending outwardly beyond the plane of the side walls of the body, a sad-iron shaped plate of smaller dimensions than an ordinary sad-iron, secured to the body and constituting the top of said body, said plate having a series of openings therein, conforming to the general outline of the plate, outwardly extending iron supporting arms

removably secured to said body, means for
supplying combustible fluid to said body, and
said body having an air inlet in its bottom,
whereby air may commingle with the com-
5 bustible fluid in said hollow body and burn
through the perforations in the top of the
body, substantially as described.

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

MARTHA J. DUFFIELD.

Witnesses:

LOUELLA KANDLE,
FRANCIS B. DAVIS.

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