(No Model.)

J. MANDOT.

STEAM SAD IRON.

No. 514,601. Patented Feb. 13, 1894.

Fig. 1

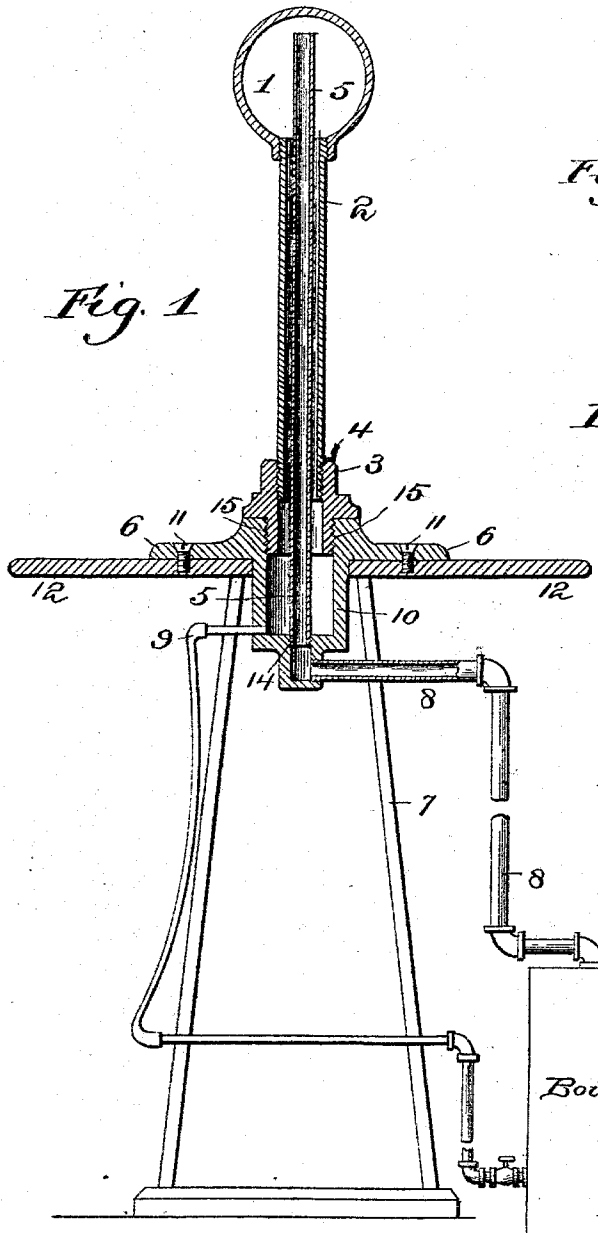


Fig. 2.

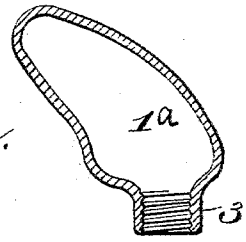


Fig. 3.

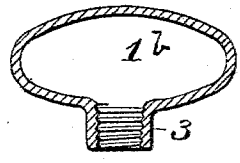


Fig. 4.

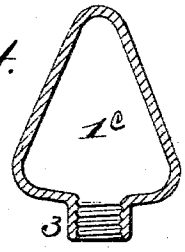
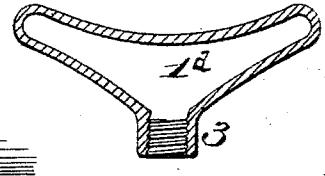


Fig. 5.



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JOHN MANDOT, OF NEW ORLEANS, LOUISIANA.

STEAM SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 514,601, dated February 13, 1894.

Application filed May 5, 1893. Serial No. 473,064. (No model.)

To all whom it may concern:

Be it known that I, JOHN MANDOT, a citizen of France, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Steam Sad-Irons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates tc devices for ironing out puffs, tucks and garments of various shapes which cannot be easily ironed out with the ordinary flat iron.

It has for its object to provide a stationary and substantially upright apparatus sustaining a hollow metallic body which may be kept constantly hot by means of steam and also to provide means for taking off the water of condensation without allowing it to accumulate in the heated body and returning it to the boiler.

With these objects in view it consists in a certain combination and arrangement of parts hereinafter described and claimed.

In the drawings:—Figure 1, represents a vertical section of my device. Figs. 2, 3, 4, and 5, show sections of modified shapes of the hollow bulb.

The hollow bulb 1, as shown in Fig. 1 is spherical in shape and is secured to the upright tube 2, by means of a screw connection. The other end of the tube 2 is fastened into an attachment piece 3 which has a square or hexagonal head 4 so that it may be turned by means of a wrench.

12 represents a circular or other convenient shaped table supported on a suitable standard 7. The table has a central opening to admit the lower part of the hollow metallic piece 10 which is provided with flanges 6 whereby it is supported and suitably secured to the table as by screws 11. The upper part of this metallic chamber is screw-threaded at 15 to receive the attachment piece 3. The steam chamber 10 is provided with another screw-threaded portion in the bottom at 14 which supports the interior vertical steam pipe 5. This pipe is connected with the steam inlet pipe 8 as shown and rises through the hollow tube and bulb and terminates at a point very close to the shell of the bulb thus keeping it very hot.

It is very desirable to have the hollow bulbs of various shapes in order that one best adapted to a particular piece of goods may be selected. 1^a, Fig. 2, shows a thumb shaped bulb which is very useful.

1^b, Fig. 3, shows an egg shaped form and 1^c, in Fig. 4 represents the cone shaped bulb, while in Fig. 5, 1^d denotes a bulb which I call the crutch top shape. Other forms may also be made.

Each of the different shaped bulbs as shown in Figs. 2, 3, 4, and 5 is provided with a tube 2 and attachment piece 3 so that when any particular shape is to be used, one is unscrewed and taken off, then the desired attachment may be screwed on tightly and each tube 2 is of the right length to bring the top of the steam pipe 5 very near the top shell of the hollow bulb.

9 represents the pipe for the exit of the water of condensation.

The operation is as follows: Steam is taken from the steam space of the boiler by pipe 8 and passed through pipe 5 into the hollow bulb which is thereby heated. The water of condensation passes out at pipe 9 and returns to the boiler which it enters at the lower part. As the boiler is on a lower level than the apparatus and the apparatus is in open connection with the boiler pressure the water will be returned by its own gravity to the boiler.

The bulbs are preferably made of aluminum bronze as it is non corrosive and does not lose its fine luster during use and also because it does not stain nor impair the color of the goods operated upon.

The appliance is used for ironing puffs and plaitings in all kinds of garments and for pressing out sleeves or other connections and corners which cannot be readily reached with any ordinary iron. It is also largely used in removing spots or stains of any kind from garments or other fabric by holding the same tightly against the heated surface of the bulb and applying the benzine or other liquid. The bulb is thus maintained in a constantly heated condition and has proved to be very efficient in actual practice.

An important feature of my invention is the arrangement and relative positions of the inlet steam pipe, the hollow bulb and the exit pipe for water of condensation. The inlet steam pipe is brought up within the exit pipe and then is kept warm, not being exposed to the cooling effect of the atmosphere. It is also introduced into the upper part of the bulb thus carrying the hottest steam constantly to the top and most serviceable part of the bulb. Then the water of condensation is not allowed to collect in the bulb at all but forms in the chamber at the lower end of the attachment.

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

1. In a steam sad iron the supporting table, the attachment consisting of the tube terminating in the hollow bulb, the chamber 10 having screw connections with the attachment and arranged below the bulb so as to secure the water of condensation, the steam inlet pipe entering the bulb, and the outlet pipe for the water of condensation connected to the chamber, substantially as described.

2. In a steam sad iron the attachment consisting of the tube terminating in the hollow bulb, the chamber 10 suitably connected to the attachment tube, the steam inlet pipe arranged within the attachment tube, in combination with the outlet pipe connected to the chamber substantially as described.

3. In a steam sad iron the attachment tube connected to the hollow bulb the connected chamber 10 with the supporting table, the outlet pipe leading from the chamber in combination with the inlet pipe entering the hollow bulb and extending to near the top of the same whereby hot steam is brought directly to the upper surface of said bulb substantially as described.

4. In a steam sad iron the supporting table and collecting chamber 10, the upright attachment tube connected to the chamber and terminating in the hollow bulb, said chamber being located above the boiler and in connection therewith and in combination with the steam inlet pipe passing up through the attachment tube and terminating near the top of the hollow bulb substantially as described.

5. The steam sad iron consisting of the flanged steam chamber 10 with its outlet pipe, the upright tube 2 carrying the hollow aluminum bronze bulb said bulb being supported over the chamber 10 in combination with the steam inlet pipe extending up through the tube and terminating very near the shell of the bulb substantially as described.

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

JOHN MANDOT.

Witnesses:
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