No. 620,305. Patented Feb. 28, 1899.

W. S. HADAWAY, JR.

LEURING IRON.

(Application filed Jan. 26, 1898.)

(No Model.)

Fig. 1.

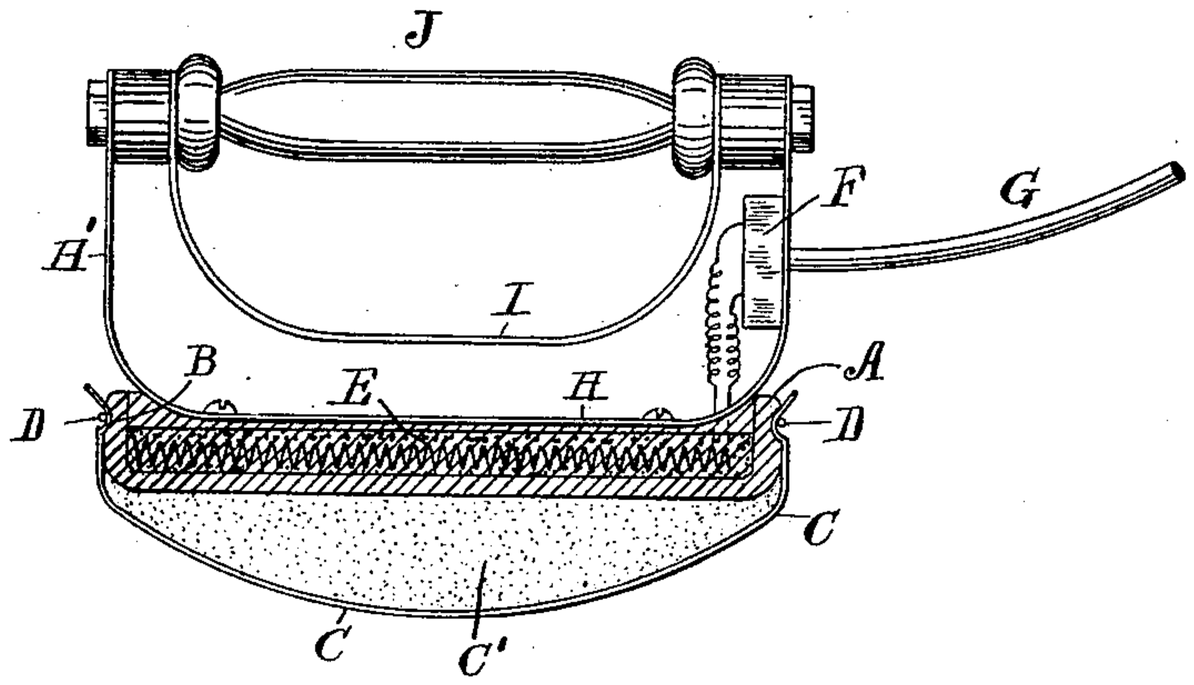


Fig. 2.

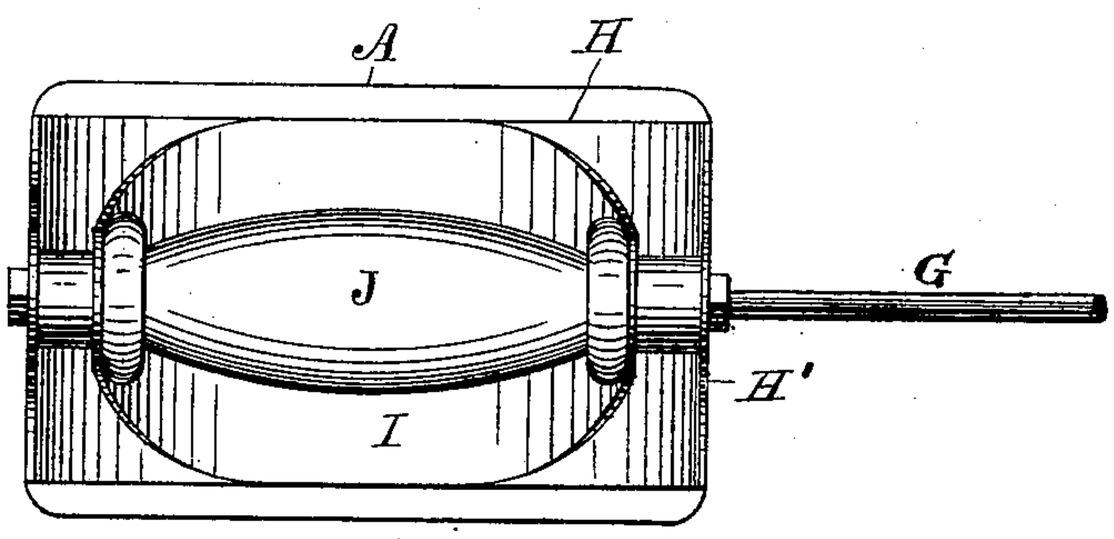
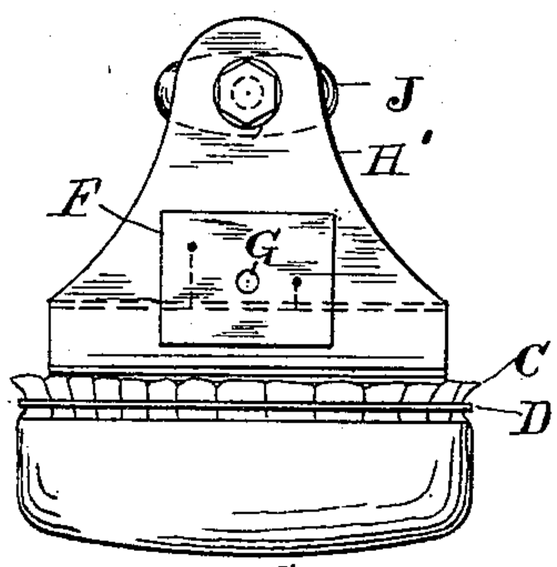


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM S. HADAWAY, JR., OF NEW YORK, N. Y.

LEURING-IRON.

SPECIFICATION forming part of Letters Patent No. 620,305, dated February 28, 1899.

Application filed January 26, 1898. Serial No. 667,968. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. HADAWAY, Jr., a citizen of the United States, residing at New York, county of New York, State of New York, have invented certain new and useful Improvements in Hot Press-Bags, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The present invention relates to an improved substitute for the so-called "sand-bags" and "leuring-irons" which are used in the art of hatting for transmitting heat to some portion of the hat-body during the shaping or pressing of the same.

The invention is shown in the annexed drawings applied to a leuring-iron.

Figure 1 represents a side elevation of the iron with the heater-body and its press-bag in section. Fig. 2 is a plan of the iron, and Fig. 3 an end view of the same.

A designates the heater-body formed with a groove B at the margin, into which the edges of the cloth C are secured by cord or wire D. A filling of sand C′ is shown between the cloth and the heater-body A, thus lying in direct contact with the body. The body is shown with electric heating-coil E embedded therein and its terminals extended to the connector-block F, to which the cable G is attached.

The handle J of the iron is sustained by a sheet-metal foot-piece H, having end lugs H′, and the usual metal shield I is shown extended below the handle to protect the hand from radiated heat.

The electric current operates in the usual manner to heat the coil, and the metallic body A transmits the heat most effectively to the sand, and thus keeps the cloth C hot so long as the current is maintained.

The electric current may be regulated in any well-known manner to vary the temperature of the sand or to maintain the same at a uniform point. The leuring-iron may thus be used continuously and its work performed much more efficiently by reason of its uniform temperature than where it is intermittingly heated by other means. The cloth C is detachably secured upon the heated body, so as to be renewed when worn.

In applying my invention to an ordinary sand-bag, which when in use is supported upon a hat-brim, the heater-body is very much larger than in a leuring-iron, which is intended to be held in the hand, and to convey the heat efficiently to the sand the heater-body may be formed with studs or ribs to project into the sand, and thus convey the heat thereto when the sand falls away from the under surface of the heater-body. The construction differs from all other sand-bags and analogous pressing and heating devices in holding the sand or heat-conducting agent in direct contact with the metal from which the heat is conveyed.

The true function of the heated filling is to yield when the flexible covering or cloth is pressed upon a curved or irregular surface, so as to greatly increase the area of contact between such surface and the cloth.

In the case of the so-called "sand-bag" the weight of the filling operates efficiently to bend the hat-brim over a "flange," while the heat serves to soften the brim and thus facilitate its change of shape. The weight of the sand thus presses the brim firmly against the flange with a heated contact, and it is obvious that any other material having the same weight would perform the same functions.

In some cases metallic filings or particles could be used as a filling, and in other cases asbestos powder or some partial conductor of heat could be employed, and I do not, therefore, limit myself to any particular kind of filling, as the essential feature of the invention is the employment of the rigid body of the appliance to convey the heat to the yielding filling. In my construction the flexible covering is attached to the margin of the rigid body, and the body thus serves to support and move the heating device, while it also serves by direct contact with the yielding filling to convey the heat to the same and to the flexible covering. The rigid body thus performs a double function and wholly avoids the loss of time which is required to heat the appliance intermittingly upon a hot table.

Where the sand-bags have heretofore been heated upon a hot table the cloth covering greatly retards the transfer of heat from the table to the sand, as such cloth is a poor heat-conductor; but in my invention the sand or filling is, when the appliance is in use, pressed in contact with the heated body, and the heat is thus conveyed directly to such filling.

From the above description it will be seen that the appliance constitutes a self-heating press-bag having a flexible covering adapted to apply heat with pressure to an irregular surface.

Having thus set forth the nature of my invention, what is claimed herein is—

1. As a new article of manufacture, a hot press-bag comprising a metallic body containing an electric resistance to heat the same, and provided with suitable electrical connections, a flexible covering attached to the margin of such metallic body, and a yielding filling of heat-conducting particles between such covering and body, substantially as herein set forth.

2. As a new article of manufacture, a hot press-bag adapted for use as a leuring-iron and having a metallic body containing electrically-heated wires and grooved upon its periphery, a cloth having its margin secured upon one side of the body by such groove and a detachable fastener, a filling of heat-conducting particles between the body and such cloth, and a handle attached to the side of the body opposite the cloth, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM S. HADAWAY, JR.

Witnesses:

THOMAS S. CRANE,

EDWARD F. KINSEY.