F. THORNTON, JR.

ELECTRIC SADIRON.

APPLICATION FILED OCT. 3, 1914.

1,344,741. **Patented June 29, 1920.**

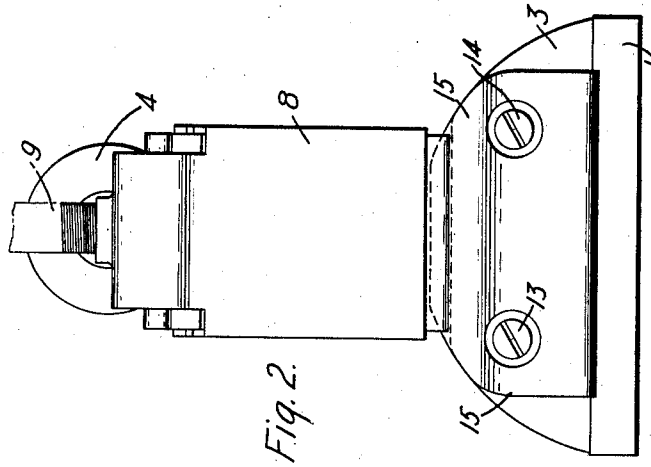


Fig. 2.

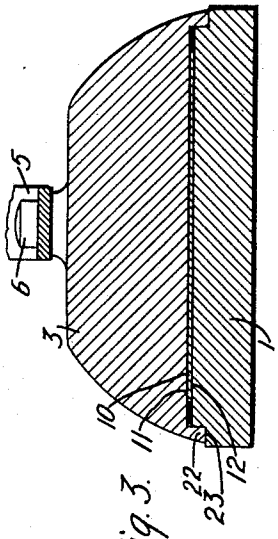


Fig. 3.

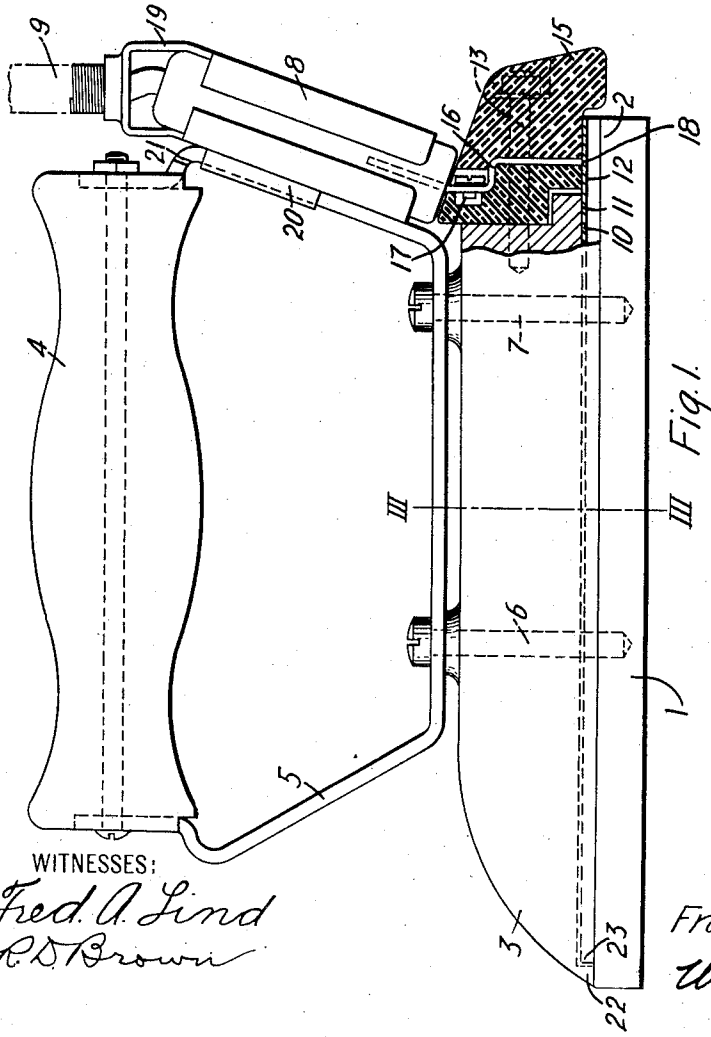


Fig. 1.

WITNESSES:

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ELECTRIC SADIRON.

1,344,741. Specification of Letters Patent. Patented June 29, 1920.

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To all whom it may concern:

Be it known that I, FRANK THORNTON, Jr., a citizen of the United States, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Electric Sadirons, of which the following is a specification.

My invention relates to electric heating apparatus, and it has special reference to electric sad irons and the like.

The object of my invention is to provide a device of the above-indicated character which shall be simple and durable in construction and which shall embody novel features that add to its convenience without increasing the number of its parts or its cost of manufacture.

In the accompanying drawing, Figure 1 is a side elevational view, with parts shown in longitudinal section showing a sad iron constructed in accordance with my invention. Fig. 2 is a rear elevational view of the sad iron illustrated in Fig. 1, and Fig. 3 is a transverse sectional view taken along the line III—III of Fig. 1.

Referring to Fig. 1, the sad iron shown comprises a base or working member 1, a suitable electric heating element 2 therefor, a heater-incasing member 3 of heat-storage material, a suitable handle 4, a bent strap 5 for supporting the handle 4, the strap 5 being attached to the members 1 and 3 by means of two bolts 6 and 7, and a terminal member 8 detachably secured to the strap 5 and provided with a suitable cord 9 for attachment to a source of electric energy.

The heating element 2 may be of any convenient form and forms no part of my present invention. As shown, the element 2 comprises a plate 10 of resistance material inclosed between sheets 11 and 12 of insulating material, such as mica.

Adjacent to the rear portion of the heat-storage member 3, and attached thereto by means of bolts 13 and 14, is a block 15, of heat-insulating and electrical-insulating material, in which are embedded or to which are attached terminal conductors 16 which are secured to the insulating block 15 by means of screws 17 and which are intimately connected at 18 to the heating element 2. If desired, the insulating block 15 may be made in a plurality of sections, held together by means of the bolts 13 or otherwise. The block 15 extends beyond the heel of the iron, and its contour is such that it is adapted to coöperate with the flat portion 19 of the terminal device 8 to form a heel stand for the iron.

The exact form of the terminal device 8 forms no part of my invention, and other forms of terminal devices may be substituted for it. In some cases, the terminal device may coöperate with the block 15 to form a heel stand, as shown in the drawing, or the handle 4 may be extended to the rear sufficiently to form part of the heel-stand. As shown in the drawing, the terminal device 8 is detachably secured to the strap 5 by means of a clamp 20, the strap 5 being cut away at 21 to permit the clamp 20 to be slipped from the strap.

In order to inclose the heating element completely within the body of the iron without the use of a separate cover, the working member 1 and the heat-storage member 3 are provided with a coöperating groove and rib. As shown in the drawing, a depending rib 22 is formed around the lower edges of the heat-storage member 3, and a corresponding recess or rabbet 23 is formed around the upper edges of the working member 1. It is obvious that the rib may be formed in the working member and the groove in the heat-storage member, if desired.

The features of my invention which render it superior to the known forms of electrically heated sad irons are the construction just described, which permits the heating element to be inclosed between two members without the use of an additional casing or cover, and second, the provision of a single body of heat-insulating and electrical insulating material, which serves the double function of receiving the terminals of the heating element and of providing a heel stand for the iron.

It is obvious that the structure which I have shown and described may be variously modified by persons skilled in the art to which my invention appertains, and it is therefore to be understood that my invention is not restricted to the precise embodiment herein shown and described, but is limited only by the scope of the appended claims.

I claim as my invention:

1. A terminal device for electric heating

apparatus comprising a body of heat-insulating and electrical-insulating material having a flat surface adapted to serve as a support for the said apparatus, and terminal conductors embedded in the said material.

2. An electric sad iron comprising a body portion, electric terminals associated with the heel of the said body portion and a mass of heat-insulating material in which the said terminals are embedded and which is provided with a flat surface adapted to serve as part of a heel stand for the iron.

3. An electric sad iron comprising a base member, a body member composed of heat-storage material, a heating element disposed between, and electrically insulated from, said members in a manner to permit heat transfer between the heating element and the members, a coöperating rib and a depression being formed on the members for inclosing the heating element, a handle mounted on the body member and bolts passing through a portion of said handle and the body member into the base member for securing the parts of the iron together.

4. An electric sad-iron comprising a base member provided with a recess around its upper edges, a body member composed of heat-storage material having a rib around its lower edges adapted to be received in the recess in the base member, a heating element disposed between said members and electrically insulated from the members in a manner to permit a free transfer of heat, and bolts passing through the body member and the heating element into the base member for securing the parts of the iron together.

5. An electric sad iron comprising a body portion, a handle, an electric terminal device rigidly associated with the heel of the said body portion and including a body of heat-insulating material, and a terminal device removably secured to the said handle, the said fixed and movable terminal devices being adapted to coöperate to form a heel stand for the iron.

In testimony whereof, I have hereunto subscribed my name this 28th day of September, 1919.

FRANK THORNTON, JR.

Witnesses:
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B. B. HINES.