

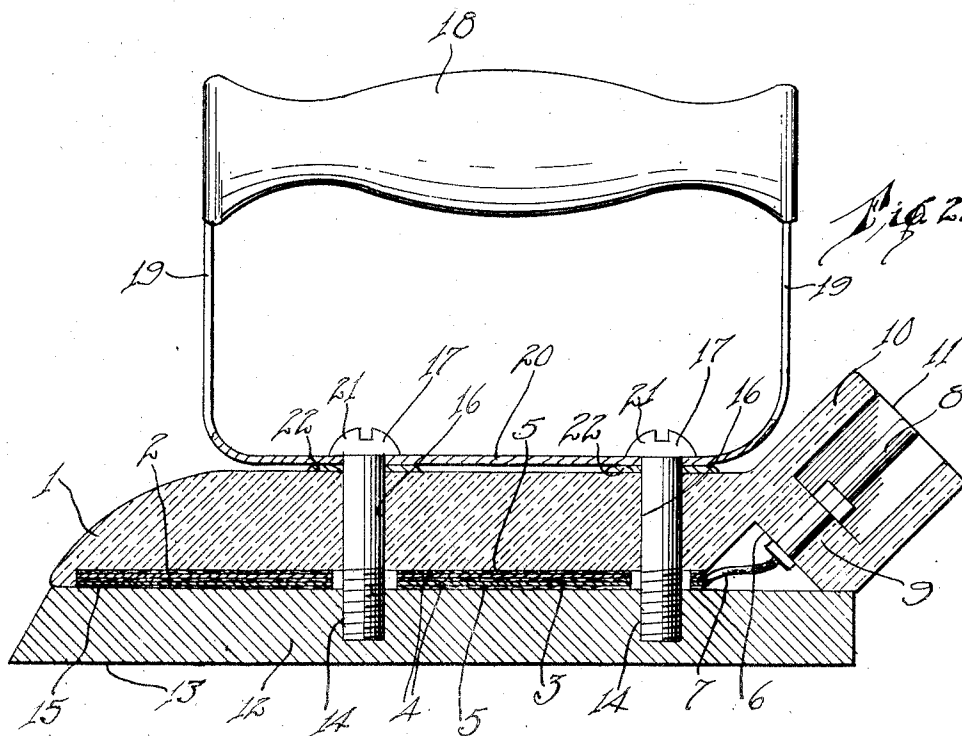
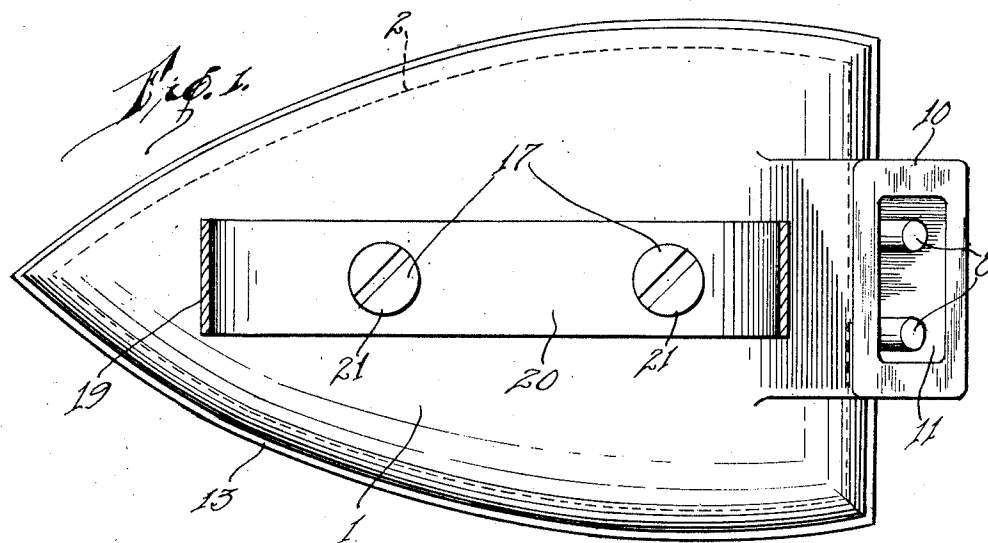
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A. GROULEFF ET AL

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ELECTRIC FLATIRON

Filed Dec. 7, 1922



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UNITED STATES PATENT OFFICE.

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WALTER DE L. CARR, OF HAMMOND, INDIANA, AND NELSON S. MOORE, OF RIVER-
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ELECTRIC FLATIRON.

Application filed December 7, 1922. Serial No. 605,405.

To all whom it may concern:

Be it known that we, AAGE GROULEFF, a citizen of the United States, and HAROLD A. HOLMES, a subject of the King of Denmark, and both residents of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Electric Flatirons, of which the following is a full, clear, and exact description.

Our invention relates to improvements in electric flatirons, and it consists in the combinations, constructions, and arrangements herein described and claimed.

An object of our invention is to provide a flatiron of the character described in which the body of the iron is possessed of a non-metallic material, thereby eliminating the use of insulation in supporting the conducting members which are attached to the heating element.

A further object of our invention is to provide a device of the character described in which the non-metallic body member is molded in a single unit including a receptacle for the entrance of the attachment plug, thereby obviating the necessity of mounting a separate receptacle upon the body member and suitably insulating the terminals within the receptacle.

A further object of our invention is to provide a device of the character described in which the body member is composed of porcelain or other suitable non-metallic material, which material is not capable of rusting, and therefore precludes the necessity of undue care against corrosion, rusting, or the like. If porcelain is used, the porcelain would therefore be glazed, and the body member would be most readily cleansed.

A further object of our invention is to provide a device of the character described in which the heating element is disposed within the depression in the non-metallic body member and in direct contact therewith.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claim.

Our invention is illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is a top plan view of an embodiment of our invention with a portion of the handle severed, and

Figure 2 is a partial sectional view of the mechanism illustrated in Figure 1.

In carrying out our invention, we make use of a body member 1 which is preferably molded porcelain having the exterior walls glazed. This body member 1 is molded to form a cavity 2 at its lower end having the outline shown in dotted lines in Figure 1. This cavity is of sufficient depth to receive a standard heating element 3 which ordinarily is composed of a metal resistance unit 4 with suitable asbestos packing 5 on either side thereof.

The body member 1 is further formed to provide an angular depression 6 in the cavity 2 for the connecting of the terminals 7 of the heating element 5 with suitable terminals.

The terminals 8 of the heating element 5 are mounted directly upon a portion 9 of the body member 1. The body member 1 is molded to provide an angular wall 10 on all sides of the terminals 8. These walls 10 are of sufficient distance apart to form a receptacle 11, in which the standard connecting plug, otherwise known as a bayonet plug, may be inserted. The bayonet plug, not shown, is connected directly to the power circuit as by means of a wall socket or the like, well known in the art.

A metal plate 12 is provided and is slightly larger in perimeter at its lower edge 13 than the lower edge of the body member 1. This plate 12 is substantially flat and is provided with a pair of threaded bores 14 in the upper wall 15 thereof. The body member 1 is provided with bores 16 which are in registration with the bores 14, and screws 17 are projected through the bores 16 and engage with the threaded bores 14 to occasion the close engagement of the plate 12 with the heating unit 5 and the lower peripheral edges of the body member 1.

A wooden or composition handle 18 is secured to the body member 1 by means of a strap 19 which is disposed at its lower end 20 under the head portion 21 of the screws 17. Washers 22 are disposed between the strap 19 and the body member 1.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. Our flatiron is used in precisely the same manner as the ordinary type of flatiron, except

that the body member 1 possesses certain advantages not found in the ordinary flatiron. One most important advantage is that the body member 1 which composes the greater part of the flatiron exposed to view, is of a non-metallic and therefore non-rusting and non-corrosive material. This material may be quickly and readily cleansed and presents a neat appearance at all times. Such structure of course obviates the necessity of an expensive nickel plating deposit to prevent the rusting of metal in the case of the ordinary device.

A further and most important advantage of our invention is that the body member 1 may be manufactured very cheaply, since the body member not only serves as a supporting medium for the heating element, but also has integral therewith a suitable receptacle for the terminals 8 and the bayonet plug for connecting the device with the power circuit. This receptacle 10, because it is of non-metallic material, also serves as a direct supporting medium for the conducting terminals 8, a condition which is not possible in the metallic body member, since in the latter device, undue care must be exercised to thoroughly insulate the

heating element, as well as the terminals, from contact with the metal member.

A further object found in the operation of our device is that the heating element may be quickly and easily replaced by merely unfastening the screws 17 and removing the plate 12.

While we have here described the body portion 1 as being composed of porcelain, it should be understood that this body portion may be constructed of any non-metallic material, among which concrete of a superior grade may be considered suitable material therefor.

We claim:

An electric flatiron of the character described having a molded non-metallic body portion fashioned to provide a plug receptacle, an electric heating element disposed in said body portion and having its terminals supported within the receptacle formed in said body member, and a metal work engaging member mounted on said body portion and contacting the bottom wall thereof.

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