April 19, 1927. 1,625,487

W. MEYER

HEATER FOR CURLING IRONS AND THE LIKE

Filed July 22, 1925

Fig. 1.

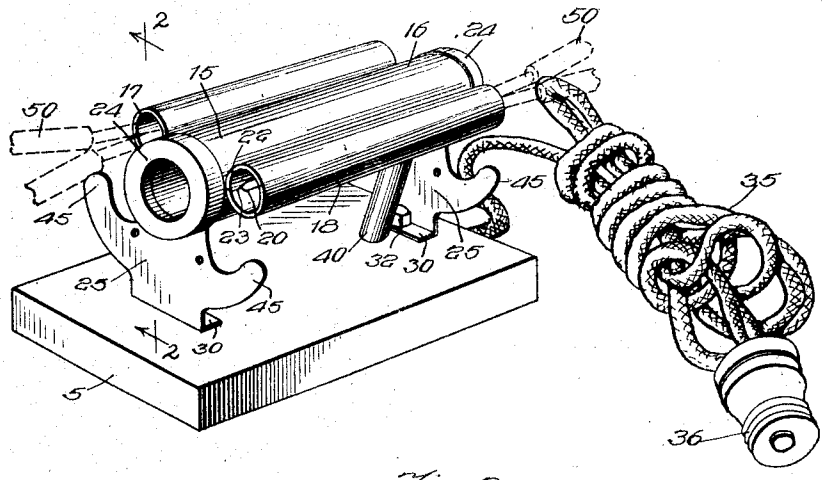


Fig. 2.

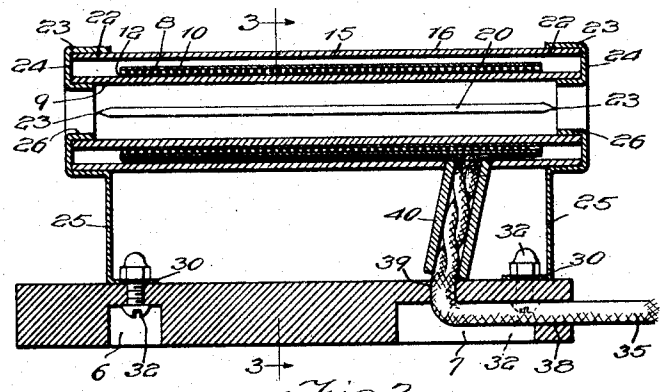
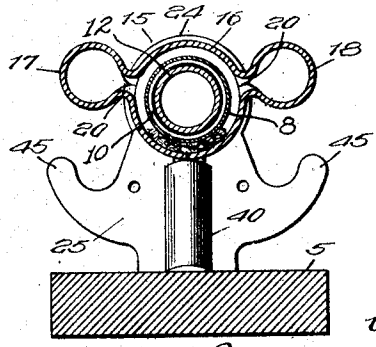


Fig. 3.



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UNITED STATES PATENT OFFICE.

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HEATER FOR CURLING IRONS AND THE LIKE.

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This invention relates to an improved heater for curling irons and the like, and its objects are the provision of a generally improved and simplified device for delivering the proper amount of heat to the iron or irons to maintain them at a generally uniform temperature and against overheating and a device adapted for plural use by operators at opposite ends or different positions and in which the radiation loss is small and the current consumption relatively low.

The invention is illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of an embodiment of the invention showing a pair of irons in position therein;

Figure 2 is a vertical longitudinal section taken on the line 2—2 of Figure 1, and

Figure 3 is a vertical transverse section taken on the line 3—3 of Figure 2.

The device shown comprises a base 5 which may be of a suitable insulating composition or material and has its undersurface recessed at 6 and 7.

The heating element per se, comprises the usual or any suitable electric coil 8 in the form of a helically wound wire of proper characteristics. The wire or coil 8 is wound or wrapped helically upon a relatively thin metal tube 9 with a layer or wrapping 10 of mica or other suitable material between the coil or wire 8 and the surface of the tube 9 for insulating the coil electrically from the tube. The coil 8 may in turn be surrounded or enclosed externally by a layer 12 of heat insulating composition which may be put on in a plastic condition or otherwise placed about the coil and which may be of any suitable material having the desired heat insulating characteristics.

The heating element is enclosed in a housing 15. This housing 15 may be formed of suitable sheet metal rolled or otherwise shaped to form a central compartment 16 of generally circular cross section for surrounding the heating means and a pair of lateral or side compartments 17 and 18 extending longitudinally along opposite sides of the compartment 16 and having their interiors in communication with the interior of the central compartment 16 through openings 20 extending longitudinally along the common sides of the compartment 17 and compartment 16 and compartment 18 and compartment 16, respectively, and formed, for example, by leaving the opposite rolled sides of the compartment 16 spaced the desired amount in the formation of the housing.

The opposite ends of the intermediate compartment 16 may extend beyond the ends of the side compartments 17 and 18, as indicated at 22 and the sides of these extending ends 22 may be at least more nearly closed, as indicated at 23. The extending ends 22 fit snugly within the external flanges 23 of the cupped or dished portions 24 of suitable end brackets 25. Each of the cupped or dished portions 24 of the end brackets 25 has a second annular flange 26 within and concentric with the flange 23. The flanges 26 receive and fit in the opposite open ends of the heater tube 9 and thereby support the same concentrically within the wall of the intermediate compartment. It is to be understood that the tube 9 may be otherwise mounted within the intermediate compartment and that means may be employed for holding the same properly therein when the end brackets are removed.

The cupped portions 24 also finish the opposite ends of the intermediate compartment and close the ends of the annular space between the tube 9 and the surrounding wall of the housing. The end brackets 25 may have angular feet 30 secured to the base 5, as by means of bolts 32, the heads of which may engage in the recesses 6 and 7 to remove them from the supporting surface. Suitable insulated conductors 35 provided with a plug or other connector 36 for electrical connection with the usual Edison or other outlet, enter the recess 7 in the base through an opening 38 and extend from the recess 7 out through an opening 39 and up through the wall of the intermediate housing 15 and into the annular space between said wall and the heating means in said compartment 16 and there have suitable electrical connection with the coil 8 for the usual purpose. The portions of the conductors 35 extending from the base 5 to the housing 15 may be enclosed within a sleeve 40 which may be a separate sleeve set in place or it may be formed integral with either of the parts.

The end brackets 25 may have lateral prongs or hooks 45 for supporting the irons when not in use.

In use, connection is made to the desired outlet and the circuit through the heating coil is turned on. The iron 50 which may, of course, be of the curling, Marcel, waving or other type, may be inserted into the central compartment 16 until heated the proper or desired amount for use. To prevent overheating, which has heretofore frequently resulted in burning or other injury to the hair, or has necessitated cooling of the iron before applying it to the hair; the iron, after heated the proper or desired amount, is withdrawn from the central compartment 16 and inserted into either of the side compartments 17 or 18, which compartments maintain the iron at the proper and a substantially uniform temperature. The compartments 17 or 18 are heated by radiation from the heater in the compartment 16 so that the loss by radiation of the entire device is very small and the current consumption is minimized. The communication between the compartment 16 and compartments 17 and 18 is restricted and the compartments 17 and 18 will not overheat the iron, as may the compartment 16.

The iron may be used, and where the temperature does not fall very much, placed back in one of the side compartments 17 or 18 to maintain it at the desired temperature. Where after use, the temperature of the iron drops appreciably, it may be inserted into the central compartment 16 and again brought up to the desired temperature, whereupon it may be removed and placed in one of the side compartments 17 or 18 and maintained at that temperature.

It should be noted that the iron 50 may be placed or inserted into the compartment 16 from either end and that the irons may also be placed or inserted into either of the side compartments 17 or 18 from either end. In Figure 1, I have shown two irons, one inserted into one side compartment from one end and the other inserted into the other side compartment from the other end. Such use adapts the device for use by two operators at different sides or ends of the heater.

The side compartments 17 and 18 are shown above the center of the central compartment 16 to expedite the heat transmission thereto, but this may, of course, be varied, as desired. It is also to be understood that while I have described the details of the heating element per se, and various other details, that these are merely descriptive of the particular embodiment of the invention shown and may be varied within the scope of the appended claims.

I claim:

1. In a heating device of the class described, the combination of a main heating compartment for receiving and heating a device to be heated, an auxiliary heating compartment communicating with said main compartment for receiving the device and maintaining the heated condition thereof, and a single heater for both of said compartments, said heater being disposed in the main heating compartment and heating said main compartment to a higher temperature than said auxiliary compartment so that the temperature of the device may be maintained in the auxiliary compartment without overheating the device.

2. In a heater for curling irons and the like, the combination of a main heating compartment for receiving and heating the iron, a heater space for said compartment, an auxiliary heating compartment communicating with said heater space for receiving and maintaining the heated condition of the iron, and a single heater for both said compartments, said heater being disposed in the heater space for the main compartment and heating said main compartment to a higher temperature than said auxiliary compartment so that the temperature of the iron may be maintained in the auxiliary compartment without raising the temperature of the iron as high as it would be raised in the main compartment.

3. In a heater for curling irons and the like, the combination of a main heating compartment adapted for receiving the iron to be heated and having an inner wall and an outer wall forming a space about said inner wall, a heater disposed in said space and heating the main heating compartment sufficiently to bring the iron up to the desired temperature when the iron is inserted in said main heating compartment and an auxiliary heating compartment for receiving and maintaining the temperature of the iron without overheating same, said auxiliary compartment communicating with the space surrounding said main compartment and heated solely by the heater for said main compartment.

4. In a device of the class described, the combination of a main heating compartment for receiving and heating a device to be heated, an electric heating coil surrounding said main heating compartment and an auxiliary heating compartment communicating with and heated solely by the coil surrounding said main compartment, said auxiliary compartment being adapted for receiving and maintaining the heated condition of the device without raising the temperature of the device as high as it would be raised in said main heating compartment.

5. In a device of the class described, the combination of a supporting base, a pair of bracket members mounted thereon, each of said bracket members having an inner flange and an outer flange surrounding same, a tube extending between said bracket members and fitting at its opposite ends over the inner flanges, a housing enclosing said tube

and having ends fitting within said outer flanges and a heater disposed between said tube and said housing.

6. In a device of the class described, the combination of a supporting base, a pair of bracket members mounted thereon, each of said bracket members having an inner flange and an outer flange surrounding same, a tube extending between said bracket members and fitting at its opposite ends over the inner flanges, a housing enclosing said tube and having ends fitting within said outer flanges, a heater disposed between said tube and said housing, and a pair of side compartments extending along and opening into the tube enclosing portion of said housing.

In witness whereof, I hereunto subscribe my name this 17th day of July, 1925.

WILLIAM MEYER.