May 18, 1948. V. J. RODITE 2,441,904

HAIR CURLER

Filed Dec. 28, 1946

Fig.1.



Fig.2.

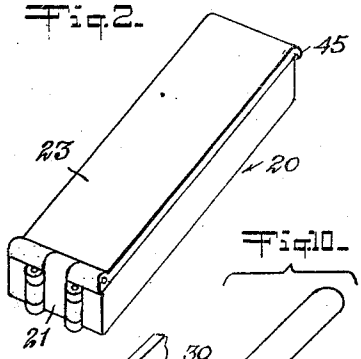


Fig.10.

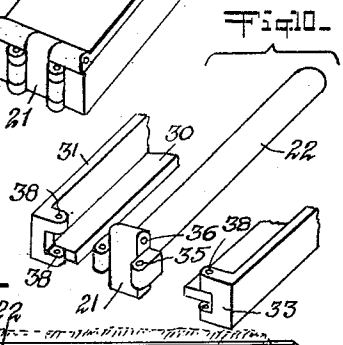
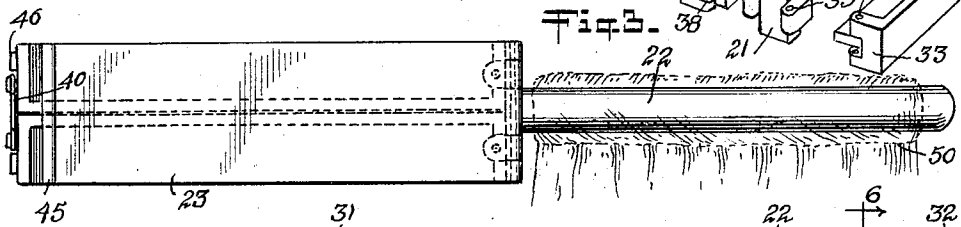


Fig.3.



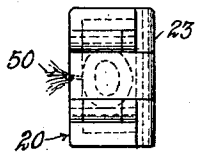


Fig.5.

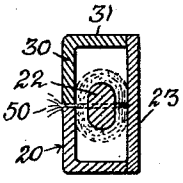


Fig.6.

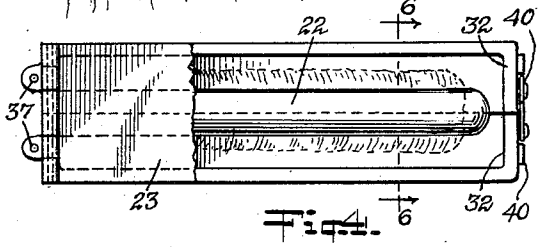


Fig.4.

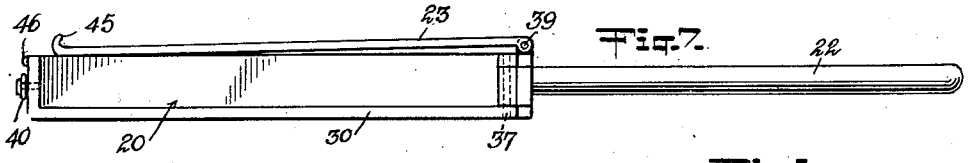


Fig.7.

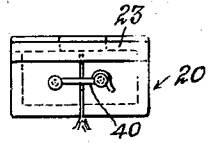


Fig.9.

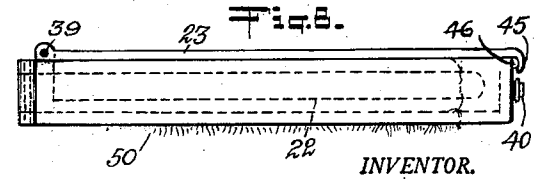


Fig.8.

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HAIR CURLER

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Application December 28, 1946, Serial No. 719,076

2 Claims. (Cl. 132—33.7)

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This invention relates to apparatus used in the art of forming "permanent waves" in human hair and more particularly to apparatus for "cold waving" the hair.

The process of "cold waving" involves the setting of the hair by chemical means. The hair is curled, the chemical solution or other preparation is applied, and after a period of time the curl in the hair assumes a more or less permanent status. Chemical preparations currently in use in this process have properties which are injurious to the scalp. It is highly essential therefore that the preparation be applied solely to the hair and not to the skin. The present invention relates to apparatus which may be used in this process of "cold waving" the hair.

It is the principal object of this invention to provide apparatus of this type which automatically prevents contact of the chemical preparation with the scalp.

Another object of this invention is the provision of apparatus of the character described which is provided with hair curling means enclosed within a casing in which the chemical preparation as applied to the hair may most effectively act upon the hair.

A preferred embodiment of this invention is shown in the accompanying drawing in which—

Fig. 1 is a view of a plurality of the claimed device shown applied to a woman's hair;

Fig. 2 is a perspective view of the device in closed operative position;

Fig. 3 is a top view of the device showing its hair curling rod in extended position relative to the casing and in position to receive a tress or lock of hair;

Fig. 4 is a top view of the device in closed position, the cover thereof being partly broken away to show the position of the hair curling rod therein;

Fig. 5 is a front view of said device in closed position;

Fig. 6 is a sectional view on the line 6—6 of Fig. 4;

Fig. 7 is a side view of the device shown in open position with its hair curling rod in extended position;

Fig. 8 is a side view of the device shown in closed position;

Fig. 9 is a front view of said device also in closed position; and

Fig. 10 is a partly fragmentary exploded view in perspective of the several members of which the device is comprised, exclusive of the cover.

The device herein claimed is provided with a

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pair of base members 20 which are hingedly connected to each other by means of hinge member 21, a hair curling rod 22 which is connected to the hinge member 21 and a cover 23 which is hingedly connected to the hinge member 21. Each base member 20 has a bottom wall 30, a side wall 31, a front wall 32 and a back wall 33. When the two base members are brought together in closed position, as shown in Fig. 4, they form an enclosed compartment which has four sides and a bottom, but no top. The cover 23 however is coextensive with the two base members and when said base members and the cover are in closed position, as shown for example in Figs. 2 and 4, a six-sided box-like affair is produced.

Close examination of hinge 21 particularly as shown in Fig. 10, will show that it is provided with three holes. There are two vertically extending pin holes 35 which are spaced from each other and parallel to each other and there is one horizontally extending pin hole 36. The axis of pin holes 35 on the one hand and 36 on the other, lie on parallel spaced planes. The pin holes 35 are positioned to receive pins 37 which extend through holes 38 in the back walls of base members 20. Pin hole 36 is positioned to receive a pin 39 which extends through a horizontally extending hole formed in the back of the cover 23. By reason of this construction the two base members 20 may be brought flat against each other both when in closed and in open position. And further by reason of this construction the cover 23 may be brought flat upon the base members both in open and closed position.

To lock the device in closed position two latching members are provided. The first is latch member 40 which locks the two base members together. This latching device comprises a simple hook and eye construction wherein the hook is connected to one of the base members and the eye to the other. A second latching means comprises a hook-shaped end portion or flange 45 along the front edge of the cover 23 and a lip portion 46 which extends along the upper edge of the front walls of the two base members. It will be seen in Fig. 8 that when the device is in closed position and the cover flat upon the base members, the hook-shaped flange engages the lip 46 which locks the cover to the base members.

The manner in which the device above-described may be used, may be described as follows: The device is opened to the position shown in Fig. 3. In this position the latch 40 may be used to lock the two base members together. The curling rod 22 assumes an outwardly extending

position since it is fixed to the body of the hinge member **21**. A tress or lock of hair **50** is wound around the curling rod **22** in the manner shown in Fig. 3. The base and cover members of the device are now swung into closed position as shown in Figs. 4 and 8, and again the hinge member **40** is used to lock the base members together. At this point the flange **45** and lip **46** are also brought into engagement with each other. The base of the hair, as will be seen in Figs. 8 and 9, extends outwardly from the device through the space between the floors of the two base members.

The chemical hair curling preparation may be applied to the hair both before and after the device is locked in position on the hair. It may be that the operation would call for two chemical preparations one of which would be applied before the hair is curled upon the curling rod, and the other applied after the device is locked upon the hair and before the cover is closed thereon. Of these two preparations the second would be the one which may have properties injurious to the scalp. It will be understood that the hair acts in the manner of a gasket between the two floor portions of the two base members, thereby closing the joint between said floor members and preventing passage of the injurious hair preparation through said joint to the scalp.

A preferred embodiment of the invention has above been described. It will be appreciated that this device may be made in different ways and out of different materials within the scope and spirit of the present invention. Although plastics material appears to be best suited for this device, metal or other suitable material may also be used. Although the base members are shown to be rectangularly shaped, it will be appreciated that they are susceptible of other shapes as well within the principles of the present invention. There is nothing vital about the rectangular shape as shown. The shape of the curling rod as shown on the drawing is not critical. As a matter of fact even the cover itself may not be essential to the device in all cases. The cover does however assist in preventing premature drying.

I claim:

1. A curling device comprising a pair of base members which are hingedly connected to each other at one end, and which are provided with a latching means at the other end, the hinge connection between said members adapting said members to fold flat against each other, both in open and in closed position and said latching means being operable both when said base members are in closed and open position, said base members forming, when in latched closed position, a relatively watertight compartment, a curling member connected to said hinge construction and positioned for enclosure within said compartment when the base members are in closed position, said device being also provided with a cover member which is hingedly connected to the hinge construction and which is adapted to swing flat against the base members when said base members are either in closed or in open position, said cover closing the compartment formed by said base members when they are in closed position.

2. A device in accordance with claim 1 in which the cover and base members are provided with a latching means for locking the cover to the base members when the base members are in closed position.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,957,046	Lakenbach	May 1, 1934