

Sept. 16, 1941.

M. DUNNER

2,255,968

HAIR CURLER

Filed Dec. 14, 1940

2 Sheets-Sheet 1

FIG. 1

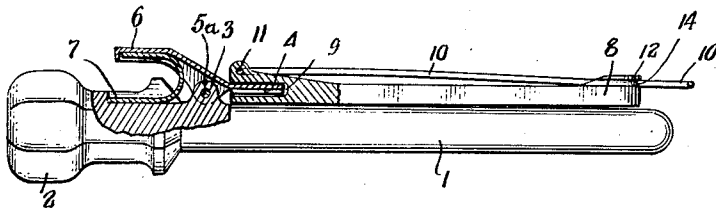


FIG. 2

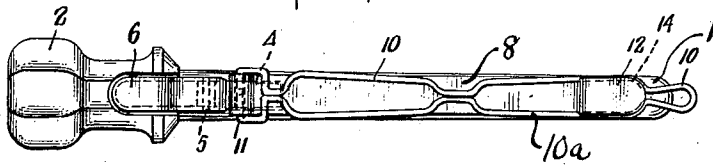


FIG. 3

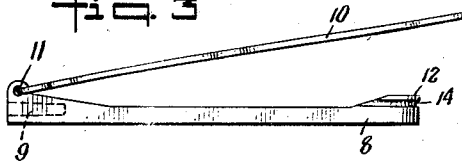


FIG. 4

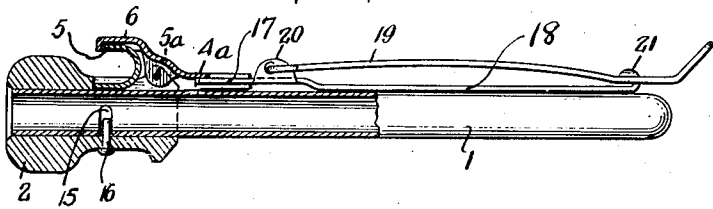
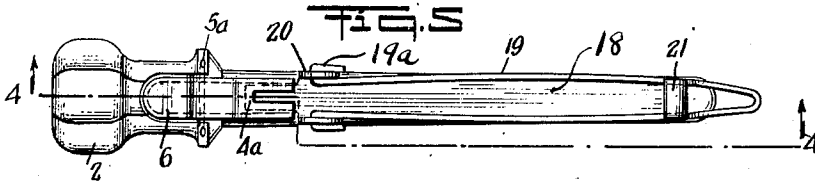


FIG. 5



INVENTOR.

BY

Max Dunner
Mock & Blum

ATTORNEYS.

Sept. 16, 1941.

M. DUNNER

2,255,968

HAIR CURLER

Filed Dec. 14, 1940

2 Sheets-Sheet 2

FIG. 6



FIG. 7

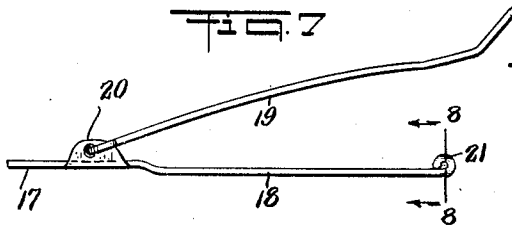


FIG. 8

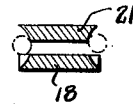


FIG. 9

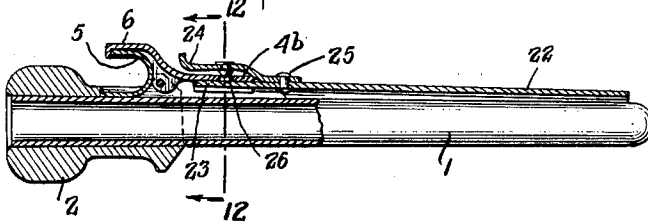


FIG. 10

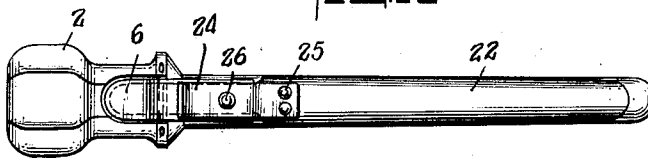


FIG. 12

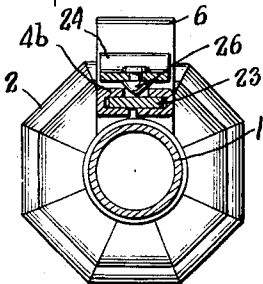
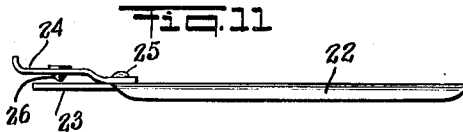


FIG. 11



INVENTOR.

BY

Max Dunner
Mock & Blum

ATTORNEYS

UNITED STATES PATENT OFFICE

2,255,968

HAIR CURLER

Max Dunner, Brooklyn, N. Y.

Application December 14, 1940, Serial No. 370,085

6 Claims. (Cl. 132—33)

My invention relates to a new and improved hair curler.

One of the objects of my invention is to provide a hair curler which is provided with a clamping bar, said bar being provided with a plurality of sections, one of said sections being readily detachable from the remainder of the clamping bar, said detachable section having supplemental means for clamping a curled lock of hair to said detachable section.

Another object of the invention is to provide a curling device which has a clamping bar which comprises a plurality of sections, one of said sections being an independent curler and being detachable from the remainder of the clamping bar.

Another object of the invention is to provide a curler having a stub clamping bar to which separate curler devices can be separately attached, so that a number of locks of hair can be respectively formed by means of said curler, and the respective locks of hair will be held in curled formation by the detachable curlers which are removably connected to said stub clamping bar.

Other and additional objects of the invention will be stated in the following description and drawings, which illustrate preferred embodiments thereof.

Fig. 1 is a side elevation of the first embodiment of the invention.

Fig. 2 is a top elevation of Fig. 1.

Fig. 3 is a side elevation of a hair holding device which can be detachably connected to the stub clamping bar of the device which is illustrated in Figs. 1 and 2.

Fig. 4 is a side elevation, partially in longitudinal section, of a second embodiment of the invention. This is a view on the line 4—4 of Fig. 5.

Fig. 5 is a top plan view of the second embodiment of the invention.

Fig. 6 is an elevation of the body member of the curler which is illustrated in Figs. 4 and 5.

Fig. 7 is a side elevation of the hair-clamping device which is an element of this second embodiment.

Fig. 8 is a sectional view on the line 8—8 of Fig. 7.

Fig. 9 is a longitudinal section, partially in elevation, of a third embodiment of the invention.

Fig. 10 is a top plan view of Fig. 9.

Fig. 11 is a side elevation of the detachable section of the clamping bar, namely, the hair-

clamping device, which is included in the embodiment of Figs. 9 and 10.

Fig. 12 is a sectional view on the line 12—12 of Fig. 9.

5 It is well known to provide a curling device which has a body and a clamping bar which is pivoted or otherwise movably connected to said body. It is also well known to associate a bobby pin detachably with a curler so that the curled
10 lock of hair is held in curled formation by the bobby pin, when said bobby pin is detached from the curler.

According to my invention, an independent hair-holding device is detachably associated with
15 a clamping bar which is movably connected to the body of the curler. This movable connection is preferably pivotal, but the invention is not limited to a pivotal connection. The curling device is therefore provided with an independent
20 hair-clamping device, which functions as an element of the curling device.

The first embodiment illustrates a curling device which has a body 1 and a head 2. The head 2 may be integral with the body 1, and the head
25 2 and the body 1 may be molded of any suitable material, such as "Lucite" or the like. The body 1 is provided with upstanding lugs 3, to which a stub clamping bar 4 is pivotally connected by means of a pivot pin 5. The stub clamping bar
30 is made of any suitable material, such as resilient metal. The stub clamping bar 4 is provided with a rear portion 6, which can be pressed by means of the finger of the user, in order to turn the member 4 to its inoperative position.
35 The usual spring 7 maintains the member 4 in its operative position.

The independent hair-clamping device comprises a base 8 which is provided with a socket 9 at its inner end. The member 4 is resilient,
40 so that it can frictionally and detachably engage the longitudinal wall of the socket or recess 9. A resilient clamp 10, which is made of metal or any other suitable resilient material, is pivotally connected to the base 8 by means of pivot pins
45 11. The outer end of the base 8 is provided with a lug 12, which has a longitudinal groove 14. The pivot pins 11, in this embodiment, are lateral extensions of the clamp 10. This clamp 10 has a resilient loop portion 10a which can
50 detachably engage the wall of the groove 14.

In using the device, the element 4 is assembled frictionally and detachably with the base 8, and the clamp 10 is released from the groove 14 and said clamp 10 is maintained spaced from
the base 8. The base 8 therefore functions as

a detachable element of the clamping bar, to clamp the tip of the lock of hair against the body 1. The end of the lock of hair can be clamped between the body 1 and the base 8, and the lock of hair can then be wound, either spirally or helically, around the body 1 and the base 8. After the lock of hair has been fully curled, the clamp 10 is turned so as to detachably engage the wall of the groove 14. The lock of hair is thus clamped in curled formation between the base 8 and the clamp 10, which constitute an independent hair-clamping device. The element 4 is then moved longitudinally relative to the base 8, so as to separate said elements 4 and 8. The lock of hair is thus clamped between members 10 and 8, before element 1 and its associated parts are shifted longitudinally relative to member 8.

The base 8 of another curler can be detachably assembled with the element 4, so that any desired number of curls can be made with the use of a single curling device, save that an independent separate hair-clamping device is assembled with the curling device in order to make each curl.

It would not be departing from the invention if the clamp 10 were pivotally or otherwise connected to the outer end of the base 8.

In the second embodiment, the body 1 is turnable through a limited arc relative to the head 2. For this purpose the cylindrical body 1 is provided with a transverse slot 15 whose arc is less than 360°. A pin 16 is connected to the head 2, and said pin 16 is located in the slot 15, so that the body 1 and the head 2 are held against relative longitudinal movement. The arc or slot 15 may be short.

In the second embodiment, the stub clamping bar 4a is provided with a socket, whose longitudinal slot is frictionally engaged by the head 17 of the base 18 of the independent hair-clamping device. In the second embodiment, the base 18 and its pivoted clamp 19 are made of metal. The clamp 19 is provided with hook-shaped ends 19a which pivotally engage the lugs 20 of the base 18. The outer end of the base 18 is rolled to provide a loop 21, whose side edges are frictionally and detachably engaged by the resilient legs of the clamp 19.

The third embodiment illustrates how the device can also be used as an ordinary curler. The construction of the stub clamping bar is substantially the same as in Figs. 4 and 5, in that the stub clamping bar 4b is provided with a socket. The extension 22 of the clamping bar is provided with a projection 23 which fits into the socket of the member 4b. Said socket is provided with a bore in its top wall. A spring 24 has one end thereof fixed at 25 to the member 22, and said spring 24 has a head 26 which detachably engages the bore of the member 4b.

The member 22 can be supplied as part of a kit, together with the device illustrated in Figs. 4 and 5, and said kit will include a number of the independent hair-clamping devices which are separately illustrated in Fig. 7.

I have shown preferred embodiments of my invention, but it is clear that numerous changes and omissions can be made without departing from the spirit thereof.

In the embodiments disclosed, the stub clamping bar is relatively short so that the hair contacts partially or wholly with the detachable section 8, when the hair is wound into curl formation.

If the curled lock is confined between the ends

of the member 8, it is very easy to separate the elements 4 and 8, by relative longitudinal movement, and this is the preferred construction. As previously stated, the clamp of the independent hair-clamping device may be pivoted to the outer end of the base of said independent hair-clamping device. Hence the curl can be formed initially, partially around the stub clamping bar and partially around the base 8, or even wholly around the stub clamping bar.

The clamp 10 may be turnable 180° relative to base 8, so that said clamp wholly clears the base 8, while the curl is being wound.

The length of base 8 is about 3-4 inches, if the curler is used for making curls of ordinary size. This may be varied. Whenever I state in a claim that the hair is wound around the section 8 or the like, I include any device in which the curl is wound in transferrable relation to said section 8. Likewise, the clamp 10 can be connected in any manner to base 8, and it may even be wholly detachable from base 8, although a movable connection is preferred, so that member 10 can be conveniently connected to base 8, if a user is making a curl at the back of her head.

The body 1 may be made very thin in comparison to the thickness of bar 8, so that the curl which is located on bar 8, when this is detached from the curling device, will be tightly wound on member 8.

I claim:

1. A curling device comprising a body and a stub clamping bar movably connected to said body, said stub clamping bar having a detachable section which is movable in unison with said stub clamping bar relative to said body, said detachable section having independent hair-clamping means movably connected thereto, said independent hair-clamping means being movable to an inoperative position when said section is assembled with the rest of the clamping bar of said curling device, so that the hair can be wound around said body and said section while said independent hair-holding means are located in inoperative position, said detachable section being adapted to clamp the hair against the body when said section is connected to said clamping bar.

2. A curling device comprising a body, a clamping bar pivotally connected to said body, said clamping bar having a detachable section which is turnable in unison with said clamping bar relative to said body, said detachable section having an auxiliary clamping bar pivotally connected thereto and detachably engageable therewith, said auxiliary clamping bar being movable to an inoperative position in which the hair can be wound around said body and said section, said section being adapted to clamp the hair against the body when said section is connected to said clamping bar.

3. A curling device comprising a body and a stub clamping bar movably connected to said body, said clamping bar having a detachable section connected thereto and movable in unison with said stub clamping bar relative to said body, said detachable section having independent hair-holding means movably connected thereto, said independent hair-holding means being movable to an inoperative position when said section is assembled with the rest of the clamping bar of said curling device, so that the hair can be wound around said body and said section while said independent hair-holding means are located in inoperative position, said section and said sectional

clamping bar being detachable by relative movement in a longitudinal direction, said section being adapted to clamp the hair against the body when said section is connected to said stub clamping bar.

4. A curling device comprising a body, a clamping bar pivotally connected to said body, said clamping bar having a detachable section which is turnable in unison with said clamping bar relative to said body, said detachable section having a clamp pivotally connected thereto and detachably engageable therewith, said clamp being movable to an inoperative position in which the hair can be wound around said body and said section, said clamping bar and said section being detachable by relative movement in a longitudinal direction, said section being adapted to clamp the hair against the body when said section is connected to the said clamping bar.

5. For use in a hair curling device which has

a body and a stub clamping bar which is pivotally connected to said body, a clamping-bar section having means adapted to detachably connect said section to said stub clamping bar, said section having hair-holding means movably connected thereto, said section being adapted to clamp the hair against said body when said section is assembled with said stub clamping bar.

6. For use in a hair curling device which has a body and a stub clamping bar which is pivotally connected to said body, a clamping-bar section having means adapted to detachably connect said section to said stub clamping bar of a curler, said section having an auxiliary clamping bar pivotally connected thereto at one end of said section, said section being adapted to clamp the hair against said body when said section is assembled with said stub clamping bar.

MAX DUNNER.