Aug. 16, 1927. 1,639,015

A. C. VELTEN

CURLING IRON

Filed Dec. 18, 1925

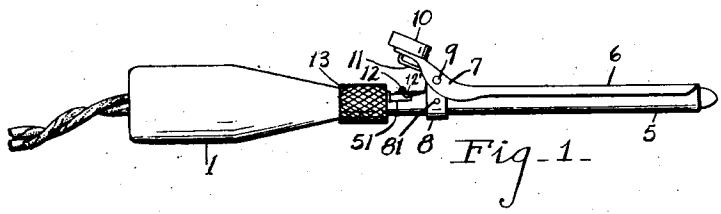

Fig. 1.

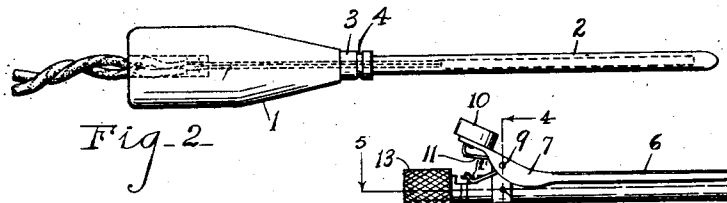

Fig. 2.

Fig. 3.

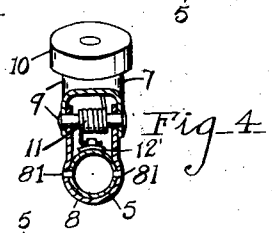

Fig. 4.

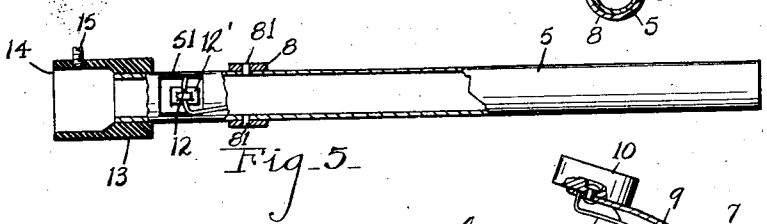

Fig. 5.

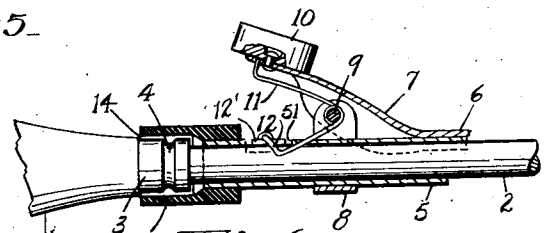

Fig. 6.

INVENTOR

Augustus C. Velten

BY Chappell & Earle

ATTORNEYS

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UNITED STATES PATENT OFFICE.

AUGUSTUS C. VELTEN, OF TRAVERSE CITY, MICHIGAN.

CURLING IRON.

Application filed December 18, 1925. Serial No. 76,222.

The objects of this invention are: First, to provide an electrically heated curling iron in which the curler part can be very readily manipulated independently of the handle and without distortion or injury to the electric connection, and with great convenience and rapidity.

Second, to provide means for manipulating the curling iron which are expeditious and convenient and adapted to the use of the curling iron whether it is electrically heated or not.

Objects pertaining to details of construction and operation will appear from the detailed description to follow. The invention is pointed out and defined in the claims.

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. 1 is a detail side elevation view of my improved curling iron on a reduced scale.

Fig. 2 is a side elevation view of the handle and heating element with the curler part removed.

Fig. 3 is a side elevation view of the removed curler part.

Fig. 4 is an enlarged detail sectional view taken on line 4—4 of Fig. 3.

Fig. 5 is an enlarged longitudinal detail sectional view taken on line 5—5 of Fig. 3, the spring and the heater element and handle being shown in full lines to show details of operation.

Fig. 6 is a vertical detail sectional view taken on a plane corresponding to line 6—6 of Figs. 4 and 5.

The parts of the drawings will be referred to by their numbers which identify like parts in all the views.

1 is the handle of usual construction, to which is secured the cylindrical rod-like heater element 2 in fixed relation. The ferrule 3 of the handle constitutes a hub for the curler part and contains an annular groove 4 for retaining the curler element in place. The curler element 5 is tubular and fits over the heater element 2, about which it revolves in the curling operation. 6 is the co-operating clamp member provided with a shield 7 which is connected to the bracket 8 by the cross pivot 9. The bracket 8 is secured to the curler element by the rivets 81. A button 10 is provided on the shield 7 making a lever for manipulating the same. A spring 11 wrapped around the pivot 9 puts tension on the parts to hold them together in curling position. The end of the spring 11 is turned crosswise at 12 with a shoe 12′ to rest on the heater element 2, a slot 51 having been formed in the tubular member 5 to permit the engagement. This constitutes a friction element to hold the parts yieldingly and permit rotation.

A knurled twirler 13 is provided on the end of the curler element 5 and is recessed at 14 to receive the hub 3. A pointed stop screw 15 is adapted to engage the annular groove 4 and retain the parts in operative position free to rotate.

I desire to state that I have shown my invention in its preferred form, but it is very clear the same can be modified and varied in detail. The providing of a twirler for revolving the curler part independently of the handle would of course be desirable whether the iron is electrically heated or not. It is of special advantage in the electrically heated curler because it avoids any necessity for swiveling the electric connection, and there is consequently no liability of injuring the connection in any way.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a curling iron the combination of a suitable handle with a fixed cylindrical electric heating element thereon and a hub connection between the same, a curling element of tubular form to embrace the heating element and rotate thereon, with a co-operating clamping element pivoted thereto, a spring for the clamping element, one end of which is adapted to press against the heating element to retain the said tubular curling element frictionally in position, and a twirler on the curling element to permit the manipulation of the same independently of the handle, as specified.

2. In a curling iron the combination of a suitable handle with a fixed cylindrical electric heating element thereon and a journal hub connection between the same, a curling element of tubular form to embrace the heating element and rotate thereon, with a co-operating clamping element pivoted thereto,

and a twirler on the curling element to permit the manipulation of the said tubular curling element independently of the handle, as specified.

3. In a curling iron, the combination of the handle with a fixed central supporting heated member of cylindrical form, a curling element adapted to revolve thereon, and a twirler for twirling the said curling element independently of the handle and heated member, as specified.

In witness whereof I have hereunto set my hand.

AUGUSTUS C. VELTEN.