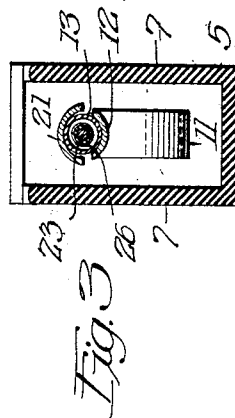
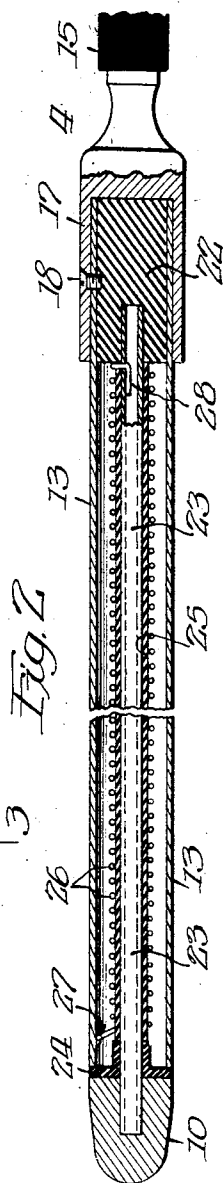
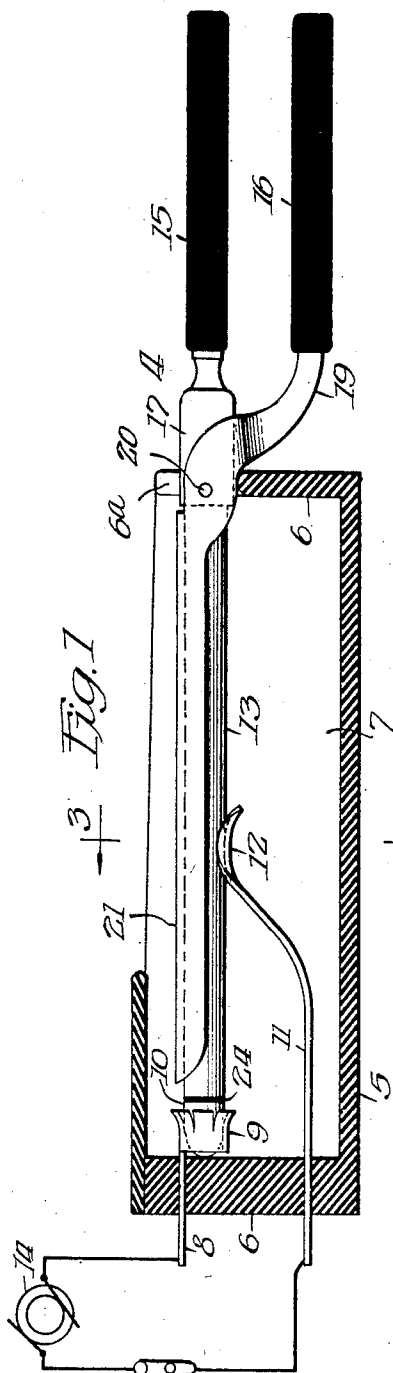


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C. A. COOK
ELECTRIC CURLING IRON
Filed Oct. 30, 1922



Inventor:
Charles A. Cook,
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att'y.

UNITED STATES PATENT OFFICE.

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OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

ELECTRIC CURLING IRON.

Application filed October 30, 1922. Serial No. 597,773.

To all whom it may concern:

Be it known that I, CHARLES A. COOK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electric Curling Irons, of which the following is a specification.

My invention relates to electric heating devices, and more particularly to improved electric curling irons.

One object of my invention is the simplicity of construction and the facility with which it can be used to do the work required. A further object of my invention is the rapidity with which the iron can be heated to the required temperature for curling hair, etc.

With my invention a suitable socket is provided which is connected to a source of energy, and the curling iron is easily placed in contact with the terminals in order to heat the iron.

My invention will be better understood by reference to the accompanying drawing, in which,—

Figure 1 is an elevation view of a curling iron embodying the features of my invention and shown in contact with a terminal box so as to heat said iron.

Figure 2 is an enlarged sectional view of the heating element.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

As shown in Fig. 1, the curling iron 4 is inserted into a terminal box 5 having end walls 6—6 and side walls 7—7, one of said walls 6 being recessed at 6^a to receive the iron. The other end wall has suitably secured thereto an upper terminal 8 whose inner end 9 is preferably flared to receive the tip 10 of the curling iron. The lower terminal 11 is in the form of a spring and is preferably provided with an enlarged part 12 adapted for engagement with the sleeve 13 of the curling iron. The terminals 8 and 11 are connected to a source of energy 14, shown diagrammatically, for the purpose of heating the iron when desired.

The curling iron embodying the features of my invention has two handles 15 and 16 of insulating material, one handle being secured to the ferrule 17 into which the sleeve 13 is fastened, as by means of a screw 18.

The handle 16 is mounted on a curved member 19 pivoted to the ferrule at 20 and provided with a grooved portion 21 adapted for co-operation with the sleeve 13 in the curling operation.

One end of the sleeve 13 is plugged with insulating material 22, such as fibre, and serves to support one end of a central tube 23 whose other end is carried by the tip 10, as clearly shown in Fig. 2. Between said tip 10 and the sleeve 13 I have interposed an insulating separator 24 mounted upon the tube 23; thus it will be seen that the sleeve 13 is entirely insulated from the tube 23. Surrounding the tube 23 is a covering 25 of insulating material which supports the wire 26 forming the heating element, one end 27 being secured to the sleeve 13 and the other end 28 being suitably connected to the tube 23.

I have found in practice that after the curling iron has been placed in contact with the terminals 8 and 11, the energy flowing through the wire 26 will heat the tube 13 very quickly, and the user of this curling iron will have a wide latitude of movement owing to the absence of the customary electric cords which have heretofore been employed.

The energy from the source of power 14 flows through the terminal 8 into the tip 10, through the tube 23, wire 26, sleeve 13, spring 11, and back to the source of energy 14.

While I have shown and described one particular embodiment of my invention, I do not wish to be limited to the precise details shown and described, since it will be apparent to those skilled in the art that modifications and changes may be made without departing from the spirit and scope of my invention.

I claim:

1. An electric curling iron comprising an outer tubular member, a support therefor, an inner member carried thereby and arranged within and spaced from said tubular member, a contact tip secured to said inner member beyond the outer end of said tubular member and insulated from the latter, a wire heating element surrounding said inner member and arranged in the space between said inner and outer members, said heating element being insulated from said inner mem-

ber, and having one end electrically connected to said inner member and the other to said outer member.

2. An electric curling iron comprising an
5 outer tubular member, a support therefor,
an inner member carried by said support
and arranged within said tubular member,
a contact tip secured to said inner member
10 beyond the outer end of said tubular member and insulated from the latter; a wire
heating element surrounding said inner
member and arranged between said inner
and outer members, said wire having one
15 end electrically connected to the inner end
of said inner member and the other end connected to said outer member near the outer
end thereof.

3. An electric curling iron comprising an
outer tubular member, a handle for said
20 member, a block of insulating material arranged in the inner end of said tubular member,
an inner member carried by said block
and extending outwardly through said
tubular member, a contact tip secured to

the outer end of said inner member and
25 insulated from the latter, a wire heating
element arranged around said inner member
and insulated therefrom, said wire having
one end electrically connected to the inner
end of said inner member and the other end
30 to the outer end of said tubular member.

4. An electric curling iron comprising a
tubular member, a handle therefor having a
socket in which the inner end of said tubular
member is removably secured, a block of in-
35 sulating material arranged in the inner end
of said tubular member, an inner member
mounted in said block and extending outwardly through said tubular member, a contact
tip secured to said inner member be-
40 yond the end of said outer member and insulated from the latter, a wire heating element
surrounding and insulated from said
inner member, one end of said wire being
electrically connected to said inner member
45 adjacent said block and the other end to
said tubular member adjacent its outer end.

CHARLES A. COOK.