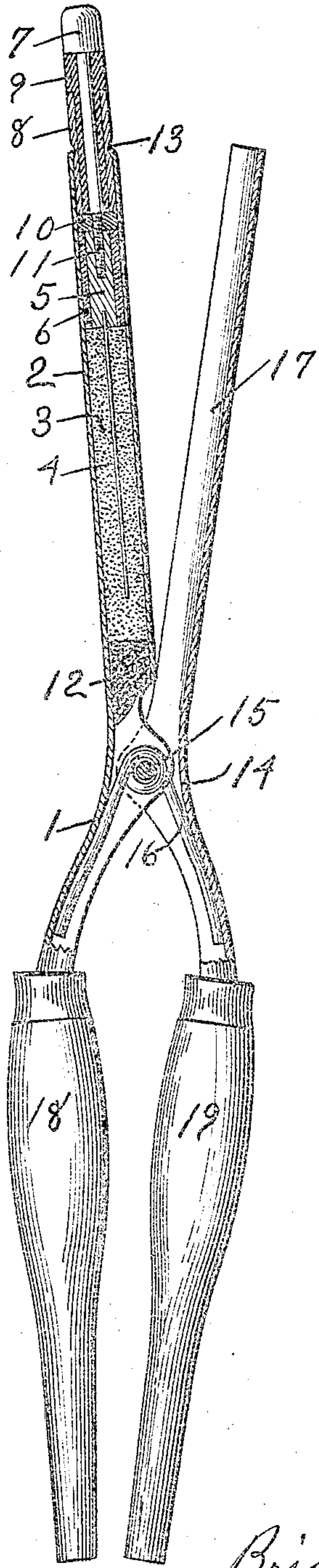


B. Y. SNYDER.
 ELECTRICALLY HEATED CURLING IRON.
 APPLICATION FILED JAN. 29, 1908. RENEWED JAN. 11, 1909.
 914,888.
 Patented Mar. 9, 1909.



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ELECTRICALLY-HEATED CURLING-IRON.

No. 914,888.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed January 29, 1908, Serial No. 413,231. Renewed January 11, 1909. Serial No. 471,776.

To all whom it may concern:

Be it known that I, BRIGHAM Y. SNYDER, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake, State of Utah, have invented certain new and useful Improvements in Electrically-Heated Curling-Irons, of which the following is a description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to curling irons of the type which are provided with electrical heating means, and one object of my invention is to provide a curling iron designed to be heated by a current of electricity and in which the possibility of injury to the user because of the current of electricity employed for heating purposes is reduced to a minimum.

A further object of my invention is to provide an electrically heated curling iron including among its elements certain parts of curling irons of common and well known type but designed to be heated by means of a source of heat external to and not forming an integral part of them, so that such common types of curling irons may be purchased at small cost and readily and cheaply converted into electrically heated curling irons in accordance with my invention.

Further objects of my invention will appear from the following specification in which I have described my invention and explained the operation thereof, and from the concluding claim in which I have specifically set forth the features in which my invention consists.

The drawing accompanying and forming a part of this application represents a sectional view of my improved electrically heated curling iron.

In the said view, 1 is a heating member; so called because the electrically heating means which I employ are located within and permanently carried by said member. The end 2 of the member 1 is made hollow and is preferably of cylindrical form in cross section. Within the hollow portion 2 of the heating member 1 is a resistance material 3, and 4 is a conducting wire embedded in said resistance material.

5 is a connector to which the wire 4 is attached, and 6 is an insulating packing made preferably of asbestos and serving to insulate the connector 5 from the wall of the cylindrical portion 2.

7 and 8 are two terminals which are to be connected with a suitable source of electricity and to conduct a current of electricity through the resistance material 3. These terminals are insulated from one another by insulating material 9, and 10 is a washer designed to screw upon a threaded portion 11 of the terminal 7. The threaded portion 11 is continued beyond the washer 10 and is designed to screw into the connector 5, as will be understood from the drawing.

The heating member 1 is commonly made of metal, and it will be seen that the terminal 8 is in direct contact therewith as is also the resistance material 3. The course of a current of electricity will then be from the terminal 7 through the connector 5 and wire 4 to and through the resistance material 3 to the metallic wall of the cylindrical portion 2 of the heating member 1 and to the terminal 8.

It will be understood that the terminals 7 and 8 are to be placed in a suitable socket which will have terminals which will connect with the terminals 7 and 8 when the iron is to be heated, and the socket disclosed in Letters Patent No. 727,468, May 5, 1903, is well adapted for use with the electrically heated curling iron disclosed in this application.

The resistance material 3 is in comminuted form and comprises a mixture of iron borings, graphite, and native oxid of manganese, ground together into a fine powder which may readily be packed within the cylindrical portion of the heating member 1, and is held in place by a plug of plastic material at 12.

The terminal 8 is provided with a groove at 13 into which the end of the heating member 1 may be forced by means of a suitable tool acting on the principle of a tube expander as will be understood.

14 is a second member pivotally connected with the member 1 at 15, and 16 is a spring for forcing the free end 17 of the member 14 toward the cylindrical portion 2 of the member 1. It will be understood that the end 17 is curved to engage the part 2, and that the hair to be curled is grasped between these members and wound about them, or wound upon the member 2.

18 and 19 are two handles for operating the members 1 and 14, which handles are of insulating material, ordinarily of wood.

It will be seen from the above that the handles of my curling iron are located as remotely as possible from the terminals 7 and

8, and that thereby the hands of the operator are kept as far away as possible from the source of electricity and danger of injury to the user thereby reduced to a minimum.

5 The members 1 and 14 without the electrical heating features will be recognized as constituting a quite common type of curling iron, which may be readily purchased and utilized in the construction of electrically
10 heated curling irons in accordance with my invention.

Having thus described my invention and explained the operation thereof, I claim and desire to secure by Letters Patent:

15 1. In an electrically heated curling iron, a heating member having a hollow portion; electrical heating means located within the hollow portion of said member; terminals located at one extremity of said heating
20 member; and a handle carried by said member at the end thereof most remote from said terminals.

2. In an electrically heated curling iron, a heating member having a hollow cylindrical
25 portion adjacent one of its ends; a handle upon the other end of said member; a pair of terminals at the end of the hollow cylindrical portion of said member; and electrical heating means located within the hollow portion
30 of said member and with which said terminals are connected.

3. In an electrically heated curling iron, a heating member having a hollow cylindrical portion adjacent one of its ends; a resistance
35 material within said hollow portion and in contact with the walls thereof; conducting wire embedded in said resistance material; a terminal connected with said wire; a second terminal connected with said heating mem-
40 ber, said terminals being located adjacent each other and at one end of said heating member; and a handle located at the other end of said heating member.

4. An electrically heated curling iron com-

prising a heating member having a hollow 45 portion adjacent one end and a handle at its other end; a second member having a handle disposed adjacent said first mentioned handle and the other end thereof adapted to engage the hollow portion of said heating member; 50 a pivot intermediate the ends of said members whereby they are connected together; electrical heating means located within the hollow portion of said heating member; and terminals at the end of said hollow portion 55 most remote from said handles.

5. An electrically heated curling iron comprising cooperating members between which the hair to be curled may be grasped; a pivot pin whereby said members are connected to- 60 gether; adjacently disposed handles for operating said members; electrical heating means carried by one of said members; and terminals connected with said heating means at the portion thereof which is most remote 65 from said handles.

6. An electrically heated curling iron comprising cooperating members between which the hair to be curled may be grasped; one of said members having a hollow cylindrical 70 portion adjacent one of its ends; handles for operating said members located upon the ends of said members most remote from said hollow portion; a pivotal connection located between said hollow portion and said handles 75 whereby said members are connected together; electrical heating means within said hollow cylindrical portion; and terminals connected with said heating means and located at the end of said cylindrical portion 80 which is most remote from said handles.

This specification signed and witnessed this fifteenth day of January A. D. 1908.

BRIGHAM Y. SNYDER.

In the presence of—

BISMARCK SNYDER,
ARTHUR F. THOMAS.