

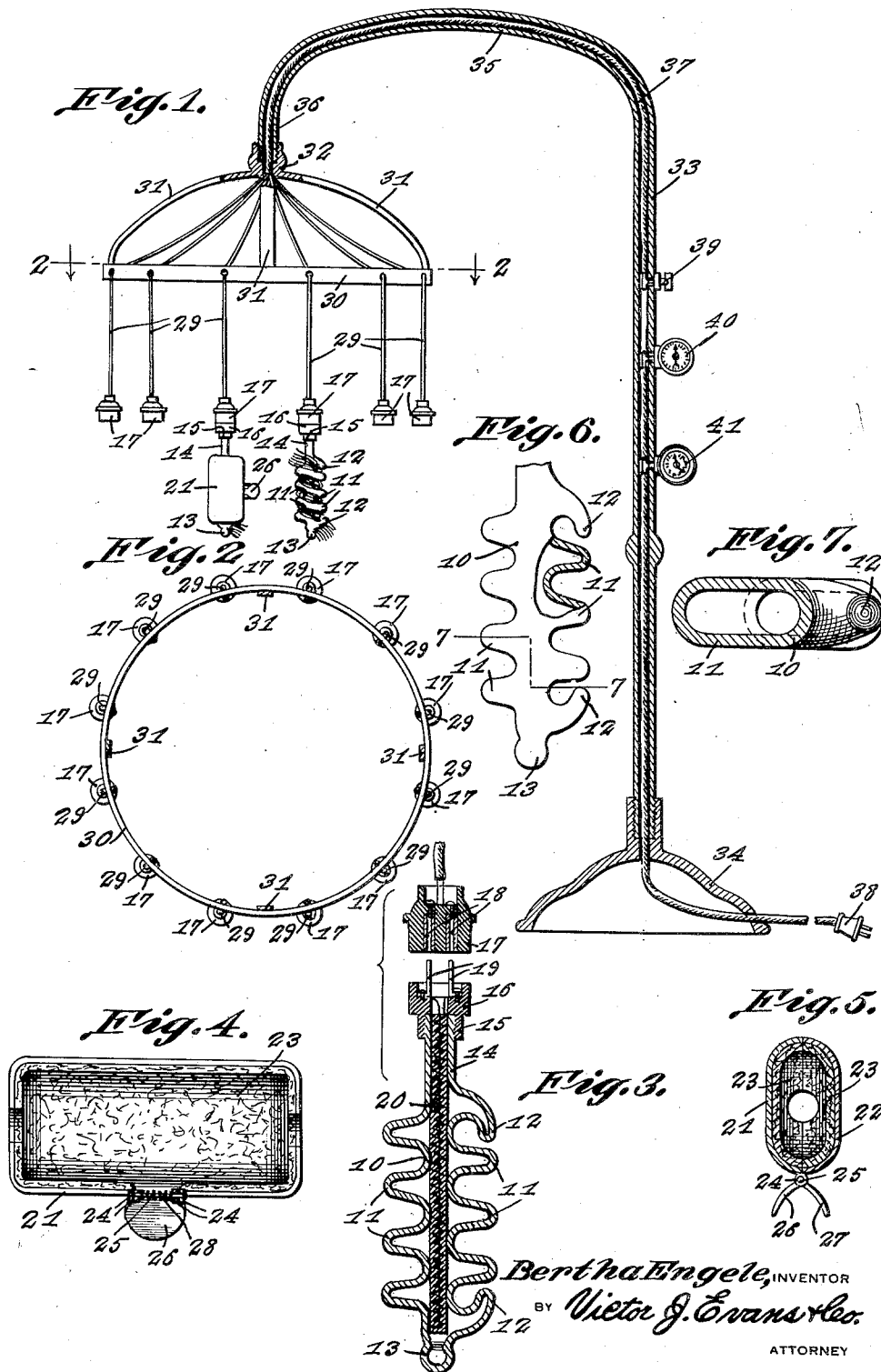
June 22, 1937.

B. ENGELE

2,084,951

ELECTRIC MARCEL MACHINE

Filed Feb. 3, 1936



UNITED STATES PATENT OFFICE

2,084,951

ELECTRIC MARCEL MACHINE

Bertha Engle, Okawville, Ill.

Application February 3, 1936, Serial No. 62,202

1 Claim. (Cl. 219—24)

This invention relates to electric Marcel machines and has for an object to provide a machine of this character having novel curling rods so shaped as to present fingers upon its sides in staggered relation, the upper and lower fingers on one side of the curling rod being bent to form hooks whereby the hair may be wound upon the curling rod and held in place by the hooks while the housing clamp is being applied.

A further object of the invention is to provide a novel housing clamp which is lined with felt or other suitable material to retain the heat while the curl is being set on the heated curling rod.

A further object is to provide a novel curling rod and heater having a separable electrical connector for detachably connecting the device to the current conducting socket which is suspended from a spacing and supporting ring carried by a standard equipped with a watt meter, a time switch, and a controlling switch whereby current may be supplied to the curling rods and heaters in sufficient quantity and for a sufficient period of time to more efficiently form the Marcel wave than hitherto possible.

A further object is to provide a device of this character which may be conveniently used in the home, which will be formed of a few strong, durable, and inexpensive parts, and which will not easily get out of order.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming part of this specification,

Figure 1 is a side elevation with parts in section of an electric Marcel machine constructed in accordance with the invention.

Figure 2 is a cross sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a longitudinal sectional view of one of the combined curling rods and heaters with the separable plug and socket connector applied thereto.

Figure 4 is a side elevation of one of the hinged sections of the housing clamp looking toward the inside of the section.

Figure 5 is a cross sectional view through the housing clamp.

Figure 6 is a side elevation of one of the combined curling rods and heaters with portions broken away.

Figure 7 is an enlarged cross sectional view taken on the line 7—7 of Figure 6.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, the device is shown to comprise a plurality of flat curling rods, each including a hollow casing 10 having equally spaced fingers 11 upon its sides, the fingers upon one side being staggered with relation to those on the opposite side. The fingers 12 at the top and bottom of one side of the curling rod are bent to form hooks which extend toward the upper and lower straight fingers respectively. The lower end of the curling rod terminates in a ball 13 and the upper end of the curling rod terminates in a cylindrical neck 14 which is exteriorly threaded to receive the internally threaded boss 15 of a separable electrical connector comprising a cap member 16 to which the boss is internally connected and a receptacle member 17 having internal tubular contacts 18 which receive the contact prongs 19 of the cap member.

Within the longitudinal bore of the curling rod a heating coil 20 is disposed, the coil being sufficient in length to extend from the cap 16 nearly to the ball 13 and having its ends electrically connected to the prongs 19 of the cap.

A housing clamp is provided for each of the flat curling rods, and as best shown in Figures 4 and 5 the clamp comprises two mating shells 21 and 22 which are lined with felt 23 or other similar material and are hingedly connected together by respective hinge eyes 24 through which a pivot pin 25 is passed.

The shells are equipped respectively with diverging grips 26 and 27 which permit the shells to be opened wide enough apart to receive between them the associated flat curling rod. A spring 28 is seated upon the pivot pin 25 and normally holds the shells closed to fit snugly upon the associated curling rod.

In practice the lock of hair to be marcelled is wound upon the curling rod between fingers 11 starting at the bottom hook 12 and terminating under the top hook 12 which hooks serve to secure the curl upon the curling rod. The housing clamp may now be applied to the curling rod to confine the curl in position and retain the heat to set the curl.

It will be noted that the fingers 11 are rounded at the peaks and in the valleys so that the hair will not be broken and it will be noted further-

more that the heating coil 20 extends throughout the entire length of the curling rod so that all of the fingers will be uniformly heated to set the curl in hair in the usual manner.

5 The electric cords 29 of the receptacles 17 are suspended from a ring 30 which is provided with spider arms 31 that radiate from an internally threaded socket member 32.

10 A hollow standard 33 supports the ring 30, the standard being provided with a base 34 and being provided at the top with a laterally directed arm 35 which is terminally bent downward, as shown at 36 and threaded to receive the socket member 32. The electric conductor cord 37 which sup-
15 plies the various cords 29 of the heaters is trained through the bore of the standard and emerges from the base 34 where it is terminally equipped with a plug cap 38 which may be plugged into any convenient lamp socket, floor or wall outlet.

20 A key switch 39 of conventional type is mounted on the standard and is electrically connected to the cord 37 and below the switch a conventional watt meter 40 is mounted on the standard and is electrically connected to the cord. Below the
25 watt meter a conventional time switch 41 is mounted on the standard and is electrically connected to the cord. The time switch may be used to automatically cut off the current at the end of a predetermined time period, such as, for ex-
30 ample, fifteen minutes. The watt meter registers the amount of current used and in practice it has been found that when 180 watts have been registered the marcelling operation has been most effectively performed. The key switch may be
35 used to cut off or connect the heaters with the house current as will be understood.

In operation locks of hair are wound upon the curling rods and the housing clamps are then

applied to the curling rods. Each cap member 16 is then plugged into its associated receptacle member 17 on the ring 30. The time switch 41 may now be set and the key switch 39 may there-
upon be closed. After fifteen or twenty minutes
5 lapse of time, the time switch will automatically cut off the current and the watt meter should thereupon register approximately 180 watts or, for example, fifteen watts for each of the twelve combined curling rods and heaters. The cap
10 members 16 may now be disconnected from the receptacle members 17 and the housing clamps 22 may be removed to permit of the Marcel curls being unwound from the curling rods.

From the above description it is thought that
15 the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

In an electric Marcel machine, a flat hollow
20 curling rod having a ball at one end and having a threaded straight shank at the opposite end, a separable plug connector on the threaded end of the rod, a heating coil extending longitudinally
25 through the rod from the plug connector to the ball, said rod having a plurality of hollow fingers disposed on opposite sides thereof, the hollow interior of each finger communicating with the hollow interior of the rod, the fingers on one
30 side being staggered with respect to the fingers on the other side, the end fingers on one side of the rod being curved to provide hooks for securing to the rod a lock of hair wound upon the rod between
the fingers, and a removable housing adapted to be clamped upon the rod to set the lock of hair
35 during the heating operation.

BERTHA ENGELE.