The present invention relates generally to an appliance used in permanent hair waving, and essentially embodies a rod about which a tress of hair is coiled, the whole being subsequently enclosed in a protection tube adapted to be inserted in a cylindrical bore of an electric heater.

The chief characteristic of the present invention resides in the provision of a novel construction of means for closing the rod receiving end of the protection tube, whereby the parts can be very quickly and conveniently associated or disassociated as the occasion may require.

More specifically stated, the invention provides a disk-like closure for one end of the protection tube, and which closure is provided with a plurality of resilient fingers adapted to yieldingly embrace the adjacent end of the tube.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of this application like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a longitudinal sectional view through the appliance.

Figure 2 is a perspective view of the removable closure for the protection tube.

Figure 3 is a perspective view of the protection tube.

Referring to the drawings in detail, 10 indicates a rod about which a tress of hair is adapted to be coiled as at 11, and the rod with the hair 11 is then arranged in a protection tube 12. The tube 12 is adapted to be closed at one end by a suitable closure to protect the scalp, it of course being understood that after the rod has been inserted within the protection tube 12, the appliance in its entirety is then adapted to be inserted in the cylindrical bore of an electric heater (not shown). As clearly illustrated in the drawings, one end of the protection tube 12, which is constructed from any suitable metal, preferably aluminum terminates to provide a conical end portion 13 having a restricted opening or vent 14 for the escape of excess steam or heated gas, while the opposite end of the tube is normally open to receive the rod 10 with the tress of hair 11 coiled thereabout.

The opposite end of the tube 12 is formed with an annular bead 15 which is interrupted by a slot 16 extending from the open end of the tube longitudinally of the latter for an appropriate distance, the slot 16 receiving a portion of the tress of hair 11 in the manner illustrated in Figure 1. The tube adjacent the open end is also provided with additional restricted steam and gas escape openings in the sides thereof indicated at 17.

As hereinabove stated the present invention contemplates a novel construction of means for closing the open end of this protection tube to protect the scalp from burns or other injury, and to provide a closure which can be very quickly and conveniently associated with or removed from the protection tube as the occasion may require. In accordance with the specific embodiment of the invention herein illustrated, I employ a disk-like closure 18 which is slightly greater in diameter than the diameter of the open end of the tube so as to effectively close the latter as illustrated in Figure 1. The disk-like closure can be held associated with the protection tube in various ways, but I preferably provide the closure 18 with a plurality of resilient curved fingers 19 which extend from the peripheral edge of the closure and are arranged to evenly embrace the body of the tube as shown. Each finger is curved throughout its length to provide a bulged portion 20 which receives the bead 15 of the tube, while the outer extremities of the fingers 19 are curved inwardly to effectively embrace the body of the tube beyond the bead 15 as illustrated. By reason of this construction it is manifest that the closure can be very easily and conveniently associated with the tube or removed therefrom as the occasion may require. In order to associate the closure disk with the tube it is only necessary to arrange the disk against the open end of the
tube with one of the fingers overlying the slot 16, which allows the disk to be so closely associated with the tube that the bulged portions 20 receive the bead 15, and then by turning the disk a slight distance to move the particular finger 19 to one side of the slot 16, the disk is effectively held associated with the tube for the purpose stated.

While it is believed that from the foregoing description the nature and advantages of the invention will be readily understood, I desire to have it known that I do not limit myself to what is herein illustrated and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim as new is:

1. In a permanent hair waving appliance of the character described, a rod about which a tress of hair is adapted to be coiled, a protection tube adapted to receive the rod and tress of hair, said tube having a restricted opening at one end and fully open at its other end, an annular bead formed on the open end of the tube, said tube having a slot interrupting said bead and extending longitudinally from the open end of the tube for a portion of its length, and adapted to receive a portion of the tress of hair, a disk-like closure for the open end of the tube, and resilient fingers carried by the disk and adapted to yieldably embrace the body of the tube beyond said bead, whereby the closure is held removably associated with the tube.

2. In a permanent hair waving appliance of the character described, a rod about which a tress of hair is adapted to be coiled, a protection tube adapted to receive said rod and tress of hair, said tube having a restricted opening at one end and fully open at its opposite end, an annular bead surrounding the open end of the tube, said tube having a slot intersecting the bead and leading from the open end of the tube for a portion of its length, and adapted to receive a portion of the tress of hair, a disk-like closure for the open end of the tube, and a plurality of curved resilient fingers projecting from the peripheral edge of the disk and adapted to yieldingly engage the body of the tube, said fingers having bulged portions adapted to receive the bead with one finger arranged directly over the slot, said disk being subsequently adapted to be slightly turned to hold the disk effectually associated with the tube as described.

In testimony whereof I affix my signature.

OSCAR J. ELAM.