

April 28, 1936.

E. E. HALL
TOOL FOR AFFIXING ELASTIC TUBULAR HANDGRIPS
TO THE SHAFTS OF GOLF CLUBS
Filed June 3, 1935

2,038,840

2 Sheets-Sheet 1

FIG. 1.

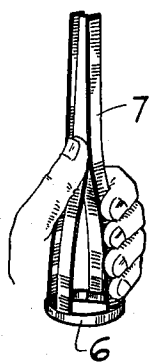


FIG. 2.

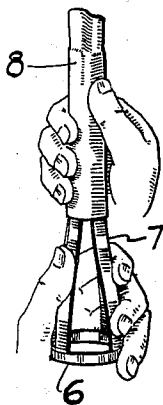


FIG. 3.

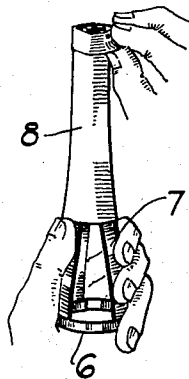


FIG. 4.

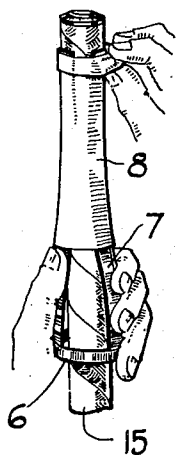


FIG. 5.

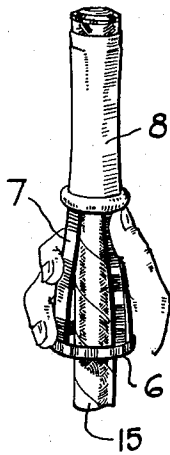


FIG. 6.

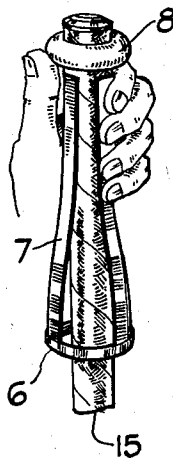
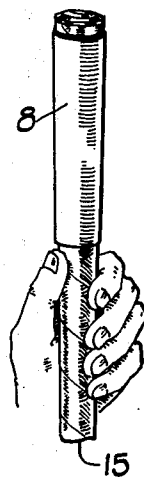


FIG. 7.



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FIG. 8.

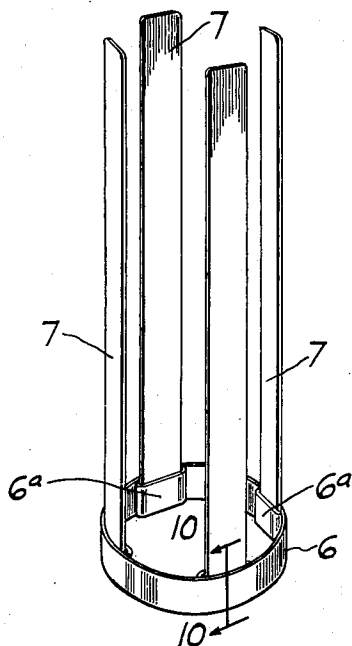


FIG. 10.

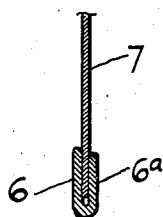


FIG. 9.

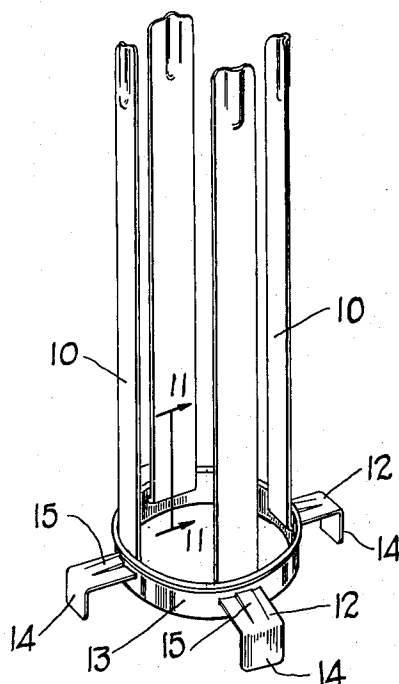
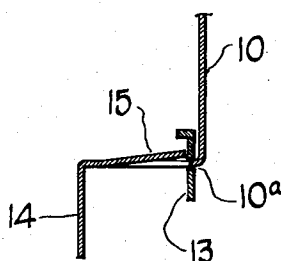


FIG. 11.



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UNITED STATES PATENT OFFICE

2,038,840

TOOL FOR AFFIXING ELASTIC TUBULAR
HANDGRIPS TO THE SHAFTS OF GOLF
CLUBS

Eric E. Hall, Chicago, Ill.

Application June 3, 1935, Serial No. 24,607

3 Claims. (Cl. 29—88.2)

My present invention relates to an improved tool which establishes a means for affixing or placing an elastic tubular hand grip on the shafts of golf clubs, fishing rods, tennis rackets, and the like.

The object of this invention is to provide an improved, inexpensive and simple expedient for properly applying and affixing an elastic tubular grip to the shaft of golf clubs or like equipment; and the subsequent placing of the grip on the club shaft where it is held in place and against accidental displacement due to its own resiliency.

A further object is to provide such a tool as one integral member—doing away with a plurality of independent or loose parts, which are apt to become lost or misplaced with the resultant rendering of the incomplete tool ineffective or inoperative.

A still further object is to provide means for making this assembly in a neat, workmanlike manner, so that the grip when applied by the laymen, will present the finished effect of the factory made product.

Having the foregoing objects in view, and others as will be more specifically pointed out in the following specifications and claims, I have illustrated my invention in the accompanying drawings (two sheets), in which:—

Fig. 1 is an elevation in perspective of the tool before it is inserted into the grip;

Fig. 2 is a like elevation, showing the starting of the assembly of the grip;

Fig. 3 shows the grip in place on the tool prior to its expansion, the top of the grip being folded back;

Fig. 4 shows the grip and tool expanded over the end of the shaft of the golf club;

Fig. 5 shows the top lap folded back onto the club shaft and the grip partially rolled up;

Fig. 6 shows the grip completely rolled up and off from the tool and onto the club shaft, prior to the removal of the tool and the subsequent rolling down of the grip over the club shaft;

Fig. 7 shows the grip in place and ready for use;

Fig. 8 is an enlarged detail of the tool only as above illustrated;

Fig. 9 is a like view of modified form of tool;

Fig. 10 is an enlarged section on line 10—10 of Fig. 8; and

Fig. 11 is an enlarged section on line 11—11 of Fig. 9.

Similar reference characters refer to similar parts throughout the respective views.

As before stated, this invention is specifically di-

rected towards golf clubs, and for purposes of description I elect to describe my invention as it is applied to golf clubs, realizing however, that the methods and procedure are equally applicable to many other structures and equipment.

The tool consists primarily of a circular ring or base 6, to which are affixed a plurality of resilient fingers 7, preferably spaced equi-distant from one another; and as such, form as a unit, a singular mandrel, over which the grip, in the form of an elastic tube 8, is applied.

The fingers 7 may be affixed to the ring 6 as shown at Figs. 8 and 10 and wherein the ring 6 has shoulders 6—a which are bent back and up and enclose the lower end of the fingers and crimp them in place, or as an alternate or modified design the fingers designated 10 in Figs. 9 and 11 may be offset as at 12 and pass through apertures 10—a in the ring 13 and then down forming lugs 14; the offset portion having a resilient tongue 15 formed therefrom, so that the free end thereof will engage the ring 13 as shown at Fig. 11 and thus limit the movement of the fingers 10 with relation to the ring 13.

The grip 8 is drawn down until the bottom edge registers with a mark on one of the fingers, the top of the tube preferably folded back or lapped as indicated at Fig. 3 and the grip is ready for assembly to the club shaft.

The club shaft 15, is then passed up through the base or ring 6, and as the crown of the shaft passes upwards, the fingers of the mandrel are expanded with the resultant expansion of the grip. The crown of the shaft is carried on through and beyond the mandrel as shown at Fig. 4. The lap of the grip is unfolded up and against the club shaft at a point above the top or end of the mandrel, so as to contract directly upon the club shaft.

Starting from the bottom, the grip is next rolled upwards upon itself, past the upper ends of the fingers 7, and onto the club shaft as a roll and as shown at Fig. 6. Due to the elastic or contractile nature of the grip, it will remain rolled and in place. The mandrel, as a unit, is next dropped down the shaft, the grip unrolled downwards upon and over the shaft into its final position. The mandrel is then removed by passing upwards, over and off from the shaft.

I am aware that expansible mandrels have been employed prior to my invention. I, therefore, do not claim the same broadly; but what I do claim as new and desire to secure by Letters Patent is:—

1. An expansible mandrel for assembling an

elastic covering on a hand grip comprising an annular base member provided with an internal opening, a series of spaced resilient fingers for said member, each of said fingers having one of
5 its ends fixed to said member.

2. An expansible mandrel for assembling an elastic covering on a hand grip comprising an annular base member provided with an internal opening, a series of spaced resilient fingers for
10 said member, each of said fingers having one of its ends fixed to said member, each finger projecting from the internal surface of the member through said opening.

3. An expansible mandrel for assembling a covering on a hand grip or the like, comprising an annular base member having an internal opening, a series of spaced resilient fingers for said member, means for affixing an end of each of said
5 fingers to the internal surface of said annular base member, said means comprising an integral shoulder on said member extending inwardly within said opening and embracing said finger end.

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