Oct. 27, 1931. R. D. LANE 1,829,361

PRONGED TUFTING BUTTON

Filed Sept. 13, 1930

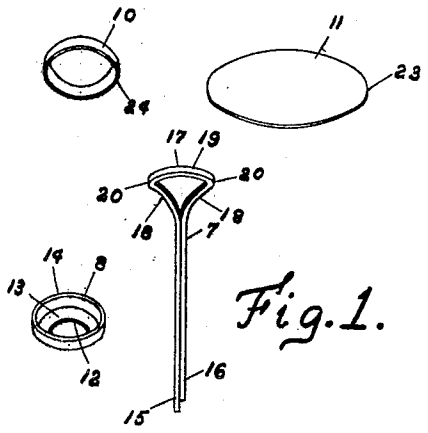


Fig. 1.

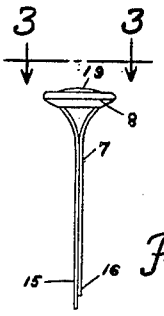


Fig. 2.

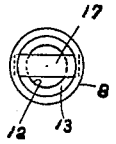


Fig. 3.

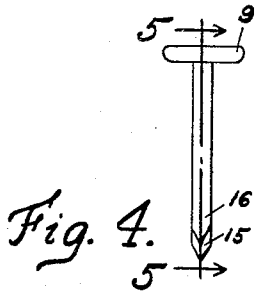


Fig. 4.

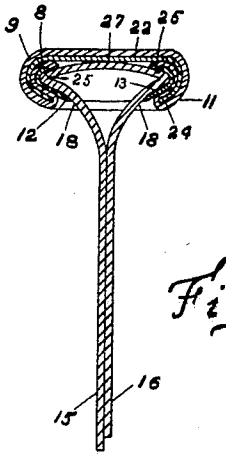


Fig. 5.

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UNITED STATES PATENT OFFICE

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PRONGED TUFTING BUTTON

Application filed September 13, 1930. Serial No. 481,739.

This invention relates to tufting buttons of the type having pointed prongs which pierce the front and back covers of a cushion or the like, which prongs are then turned over for holding the button in position.

An object of the invention is to provide a pronged tufting button that may be manufactured at small cost and by the use of fast and comparatively simple and inexpensive machinery.

Another object is to provide a tufting button the prongs of which will not readily break off, and which prongs are mounted in a button ring so as to be bent upon application to a cushion, at a place other than that at which they are bent by the machinery during manufacture.

Another object is to provide a form of tufting button in which the prongs thereof are afforded maximum resilience.

Another object is to provide a tufting button the top of which cannot readily be dented.

These and other objects are attained by the means described herein and disclosed in the accompanying drawings, in which:

Fig. 1 is a view showing the various constituent parts of the tufting button of the invention.

Fig. 2 is an elevational view showing the prong portion or member having attached thereto a ring-shaped crimp or button ring providing a base for the attachment of a covering of cloth, leather or other material.

Fig. 3 is a plan view taken on line 3—3 of Fig. 2.

Fig. 4 is an elevational view of a finished tufting button.

Fig. 5 is a cross-sectional view taken on line 5—5 of Fig. 4.

The pronged tufting button of the present invention comprises a body or skeleton consisting of the parts 7 and 8 which may be termed the prong element and the button mounting ring, respectively. The finishing button or head 9 consists of a cover retaining crimp disc 10 and a circular piece of material 11 such as cloth, leather, rubber or similar material suitable for a covering.

The button mounting ring 8 comprises a cup-shaped metallic member having a perforation 12 in its circular base 13, and a peripheral upstanding continuous flange 14 extending from the base. The perforation 12 is large compared with the combined cross-sectional areas of the two contacting prongs 15 and 16, and said prongs are insertible therein as illustrated in Fig. 5. The head end 17 of the prong element is substantially triangular in shape, the sides 18 thereof terminating in the prongs 15 and 16. These sides may be arcuate, the outer faces thereof being concave. The third side 19 of the triangular head end may also be arcuate, its outer surface being convex. At the juncture of the third side with the sides 18 are formed the opposed anchor portions or extensions 20 which, when the prong element is inserted in the perforation 12, rests upon the inner face of the base 13. The upstanding flange 14 thereof may then be spun in or otherwise bent upon the anchor portions 20 to provide the completed body or skeleton illustrated in Figs 2, and 3. It should be noted (Fig. 2) that the top arcuate side 19 of the head end 17 extends slightly above the mounting ring 8, and that diametrically opposite portions of the base 13 of the ring 8 contact the concave faces of the sides 18 (Fig. 5). When the prongs 15 and 16 are bent outwardly in opposite directions, the bending takes place in the region of the line of contact between the prongs and the edge of the opening 12. This insures close contact of the under side of the button with the material being tufted, and reduces the probability of breakage at the anchor portions 20 due to further bending.

The covering 11 may be applied to the body or skeleton in any suitable manner such as by placing it upon the outer surface 22 of the imperforate crimp disc 10, then tucking the edge 23 thereof inwardly about the curved continuous flange 24 of the disc, after which the flange 24 is turned inwardly by application thereto of a proper inwardly directed force. The inwardly turned flange 24 thereupon clinches the covering material 11, which is further clinched in the region 25 of the upper inwardly turned flange 14 of the button mounting ring 8. A very satisfactory and effective connection is thereby made be-

tween the mounting ring 8 and the covered disc 10.

By having the convex side 19 of the head end 17 of the prong member extending slightly above the mounting ring 8, the crimp disc 10 may contact therewith, as at 27, thereby reinforcing the central portion of the disc.

What is claimed is:

1. A prong structure for tufting buttons comprising a prong member having a substantially triangular head formed intermediate the ends of the prong member, the triangular head having sides terminating at the prongs and another side forming with the first mentioned sides a pair of anchor portions and a button mounting ring having an upstanding flange and a perforate base the prongs extending through the perforation in the base and the anchor portions being clinched between the base and the flange.

2. A prong structure for tufting buttons comprising a prong member having a substantially triangular head formed intermediate the ends of the prong member, the triangular head having sides terminating at the prongs and another side forming with the first mentioned sides a pair of anchor portions, and a button mounting ring having an upstanding flange and a perforate base the prongs extending through the perforation in the base and the anchor portions being clinched between the base and the flange, the third side of the triangular head of the prong member being extended beyond the button mounting ring.

3. A tufting button comprising a prong member having a head end substantially triangular in shape, two of the corners thereof providing anchor portions, a button mounting ring having a perforate base and a flange, the prong member extending through the perforation in the base and the anchor portions being secured between the base and flange, and a finishing button for covering the mounting ring and comprising a flanged disc and a piece of covering material the flange of which disc is crimped upon the covering material and the mounting ring.

4. A tufting button comprising a prong member having a head end developed into a pair of opposed anchor portions, a button mounting ring having a perforate base and a flange turned upon the anchor portions of the prong member, the prong member extending through the perforation of the base, a piece of covering material and a flanged disc crimped upon the base of the mounting ring, a portion of the covering material being clinched also upon the turned flange of the button mounting ring.

In testimony whereof, I have hereunto subscribed my name this 11th day of September, 1930.

RICHARD D. LANE.