(No Model.)

W. H. HUTCHINSON & H. A. CABLES.

TUFT BUTTON.

No. 432,878. Patented July 22, 1890.

Fig. 1.

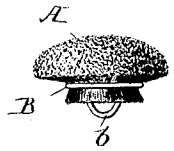


Fig. 2.

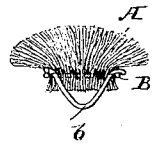


Fig. 4.

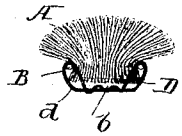


Fig. 3.

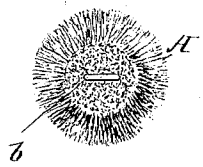


Fig. 5.

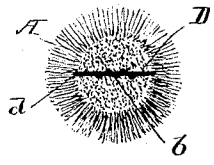
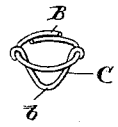


Fig. 6.



Fig. 7.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. HUTCHINSON AND HARTLEY A. CABLES, OF ROCHESTER, NEW YORK.

TUFT-BUTTON.

SPECIFICATION forming part of Letters Patent No. 432,878, dated July 22, 1890.

Application filed May 4, 1889. Serial No. 309,556. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. HUTCHINSON and HARTLEY A. CABLES, citizens of the United States, residing at Rochester, Monroe county, New York, have invented certain new and useful Improvements in Carriage and Upholsterers' Tufts, of which the following is a specification.

This invention has for its object to improve and cheapen the cost of manufacture of that class of buttons or tufts used for ornamental purposes by upholsterers and carriage-trimmers; and it consists of such a button formed of a tuft or bunch of fibers compressed and held together by a binding strand or strands of wire or other material encircling it near one end, and it further consists in the details of construction of buttons of this kind.

In the drawings, Figure 1 is a side view of a tuft or button made according to our invention. Fig. 2 is a central vertical section thereof. Fig. 3 is a bottom view. Fig. 4 is a vertical section of a slightly-different form of the invention. Fig. 5 is a bottom view of Fig. 4. Figs. 6 and 7 are detached perspective views of the binding-wires.

In the drawings, A represents the mass of fibers of yarn or other material, which are bound together to form the tuft or button. These fibers are arranged in a cylindrical mass in any preferred manner, and are securely bound together by a binding-strand B of any suitable material, preferably wire, which is made to tightly encircle the mass of fibers near one end, thereby compressing them and allowing their longer free ends to expand to form the ornamental portion of the tuft, and the shorter ends to expand somewhat, thereby forming the back of the button or tuft. After the tuft has been formed the back, consisting of the short slightly-expanded ends of the fibers adjacent to the confining wire or strand, is coated with glue or some other adhesive and cementing material, which unites the fibers and binds them together at their ends, thereby increasing the durability of the button or tuft by rendering it more difficult to pull out or detach any of the fibers and at the same time stiffening the back, so that the encircling strand or strands cannot slip off. The binding strand or wire B, which encircles the tuft in the form of a ring, may have one end extended transversely across the ring and the back of the button or tuft and bent to form the central eye *b*, by which the button is secured to the material upon which it is used, as shown in Fig. 6, or a separate piece of wire C may be extended across the ring and secured at each end thereto to form this eye, as shown in Fig. 7. A preferable construction, however, is shown in Figs. 4 and 5, where the eye *d* is formed of a cord or thread D, extending transversely across the back and passed one or more times through the mass of fibers to form the loops *b*, which encircle the wire or other strand B. An eye made of fibrous material will not abrade the securing-thread by which it is attached to the article, as will a metallic eye.

Without limiting ourselves to the precise construction and arrangement of parts shown, we claim—

1. A button or tuft consisting of a mass of fibers compressed and held together near one end by an encircling strand, the shorter slightly-expanded ends of the fibers projecting beyond the strand being glued or cemented together, and an attaching-eye opposite the glued end of the button, substantially as described.

2. A button or tuft consisting of a mass of fibers compressed and held together by an encircling wire, in combination with a cord or thread looped around the wire and forming an attaching-eye opposite to and extending across the compressed end or back of the tuft, substantially as set forth.

3. A button or tuft in which a mass of fibers is bound together by a rigid encircling annular band, with an eye formed of flexible strands extending across the inner end of the tuft from a point at one side of said band to a point diametrically opposite at the other, substantially as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WILLIAM H. HUTCHINSON.
HARTLEY A. CABLES.

Witnesses:
ELLBRECHT VOGHT.
ALBERT C. MAYER.