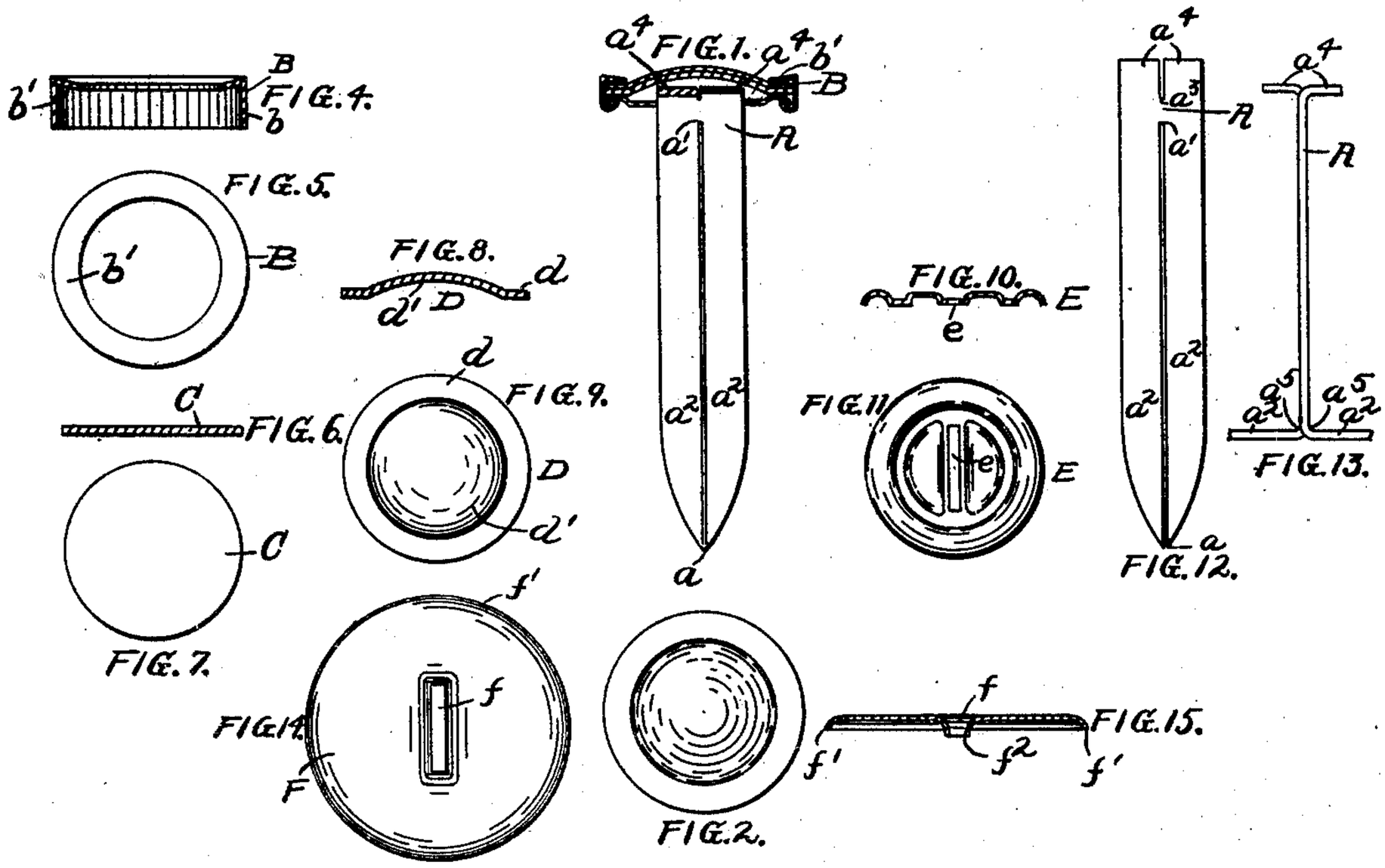
No. 711,312. Patented Oct. 14, 1902.

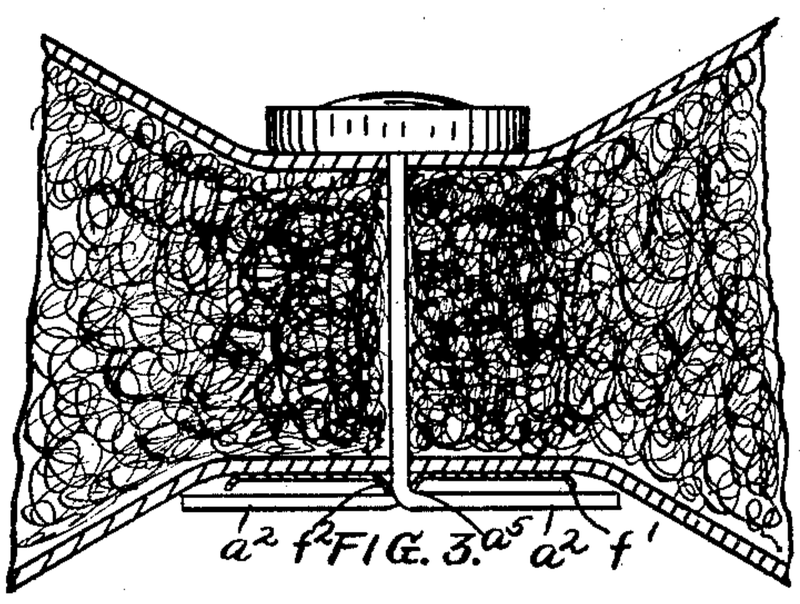
H. HIGGIN.

TUFTING BUTTON.

(Application filed Feb. 7, 1901.)

(No Model.)





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HENRY HIGGIN, OF NEWPORT, KENTUCKY, ASSIGNOR TO THE HIGGIN MANUFACTURING COMPANY.

TUFTING-BUTTON.

SPECIFICATION forming part of Letters Patent No. 711,312, dated October 14, 1902.

Application filed February 7, 1901. Serial No. 46,332. (No model.)

To all whom it may concern:

Be it known that I, HENRY HIGGIN, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Tufting-Buttons, of which the following is a specification.

The object of my invention is to provide a tufting-button for cushions, simple and economical of construction, which may be readily utilized for tufting purposes and which when so utilized will not easily become unfastened or tear out the covering of the cushion.

My invention consists in the parts, combinations, and arrangements of parts hereinafter described and claimed.

In the drawings, Figure 1 is an elevation, partially in section, of a tufting-button embodying my invention; Fig. 2, a top plan view corresponding to Fig. 1; Fig. 3, a sectional elevation showing a tufting-button in operative position in a cushion; Fig. 4, a vertical section of the outside shell of the head of the button; Fig. 5, a top plan view corresponding to Fig. 4; Fig. 6, a vertical section of an ornamental flexible disk forming the central ornamentation of the head of the button; Fig. 7, a top plan view corresponding to Fig. 6; Fig. 8, a vertical section of a forming-table on which the ornamental disk rests; Fig. 9, a top plan view corresponding to Fig. 8; Fig. 10, a vertical section of a plate to which the shank of the button is attached and which is secured in the button-head; Fig. 11, a top plan view corresponding to Fig. 10; Fig. 12, a side elevation of a button-shank as it appears before it is bent; Fig. 13, a side elevation at right angles to Fig. 12, showing the button-shank as bent in attaching it to the head and securing the button in position in the cushion; Fig. 14, a top plan view of the washer over which the point of the shank is clenched when securing the button in position; Fig. 15, a vertical medial section corresponding to Fig. 14.

In the drawings reference-letter A denotes a button-shank; B, an outside casing for the head; C, an ornamental flexible disk adapted to be secured in casing B, so as to constitute the central ornamentation of the head; D, a forming-table adapted to be secured in casing B, so as to support and form the disk C; E, a plate adapted to engage shank A and be secured in casing B, and F a washer over which the point of shank A is clenched to secure the button in position.

The shank A consists of a flat blank, preferably of wrought-iron, with a sharpened point a, split from the point upwardly to point a' to form tangs a^2 and split from the top downwardly to point a^3 to form tangs a^4. The casing B is preferably of brass and consists of side wall b and inturned flange b'. The ornamental disk C may be of patent or enameled leather and is of a size adapted to fit into casing B and rest against the under side of flange b'. The forming-table D is of a size adapted to fit into casing B and consists of an outer annular flange d, surrounding an inner raised table d', adapted to project outwardly through the opening inclosed by flange b' of casing B. The plate E is provided with a central opening e, adapted to receive shank A, and is designed to close the bottom of casing B, where it is secured in position by crimping the lower edge of wall b over its edges, as shown in Fig. 1. The washer F is provided with a central opening f to permit the passage of shank A, and its edges f' are slightly turned or crimped. At its sides the opening f is provided with raised walls f^2.

In constructing the button the different parts are made separately. The shank A is passed through the central opening e of plate E and its upper tangs a' clenched over the upper side of the plate. The ornamental disk C is placed in casing B, with its ornamental side out, and forming-table D inserted immediately below it. Then plate E, with shank A attached, is inserted and the lower edge of wall b crimped over its edges. The pressure of the crimping forces the forming-table D upwardly, causing its raised central table d', and consequently the central portion of disk E, to protrude through the central opening in the top of casing B, and all the inserted parts are securely held in position by the pinching between the flange b' and the crimped lower edge of wall B.

In use the shank of the completed button is forced through both covers of the cushion,

and the washer F, with the raised walls of opening *f* protruding outwardly from the cushion, is placed over the protruding point. Pressure is then applied between the washer and head of the button to compress the intervening material to form the tuft. The tangs a^2 of the shank are then bent in opposite directions over the raised walls f^2 as fulcrums to clench the button and washer in position. It will be noted that the force tending to straighten out the clenched ends of shank A is applied at point a^5, which is the point of most advantage for resistance by the clenched portions of shank A. Owing to the fact that the shank of the button is flat, its passage through the covers of the cushion causes the least possible weakening of the covers, and consequently keeps the tendency of the covers to tear out at a minimum. The turned or crimped edges of the washer F prevent the cutting of the cover at the edge of the washer.

I claim as my invention—

1. The combination in a tufting-button of a head-casing having a central opening in its top; a flexible ornamental disk adapted to be inserted in the casing under the opening; a forming-table provided with a central raised portion and adapted to be inserted in the casing under the disk; a button-shank; a plate adapted to be secured to the shank and means for securing the plate in the head-casing, substantially as and for the purpose set forth.

2. The combination in a tufting-button of a head-casing having a central opening in its top; a flexible ornamental disk adapted to be inserted in the casing under the opening; a forming-table provided with a central raised portion and adapted to be inserted in the casing under the disk; a flat shank split from the point upwardly and from the top downwardly to form tangs at both ends; a plate provided with a central opening to permit the passage of the top tangs of the shank and adapted to be inserted in the head-casing and have the lower ends of the head-casing walls crimped over its edges, substantially as and for the purpose set forth.

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