

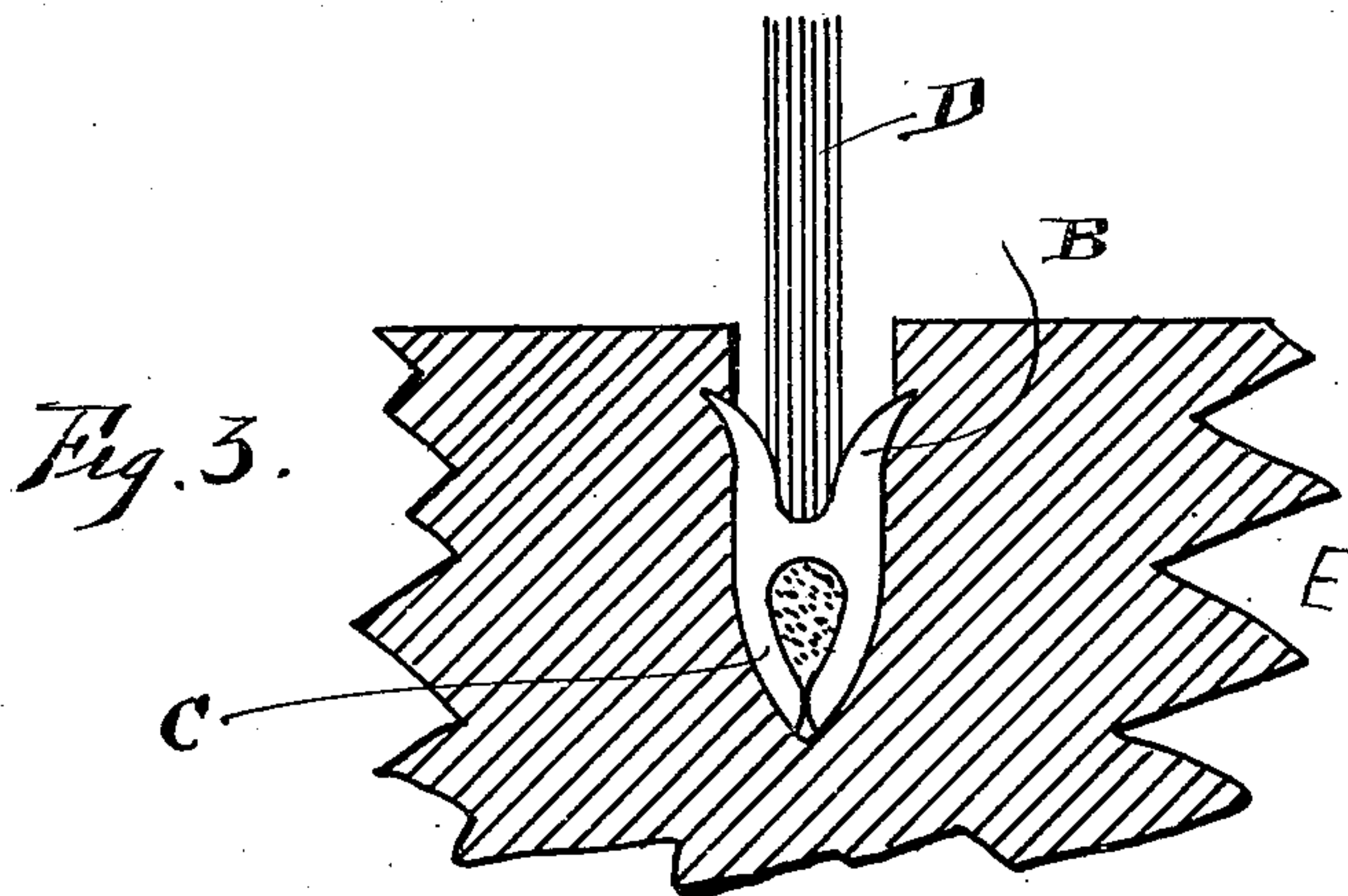
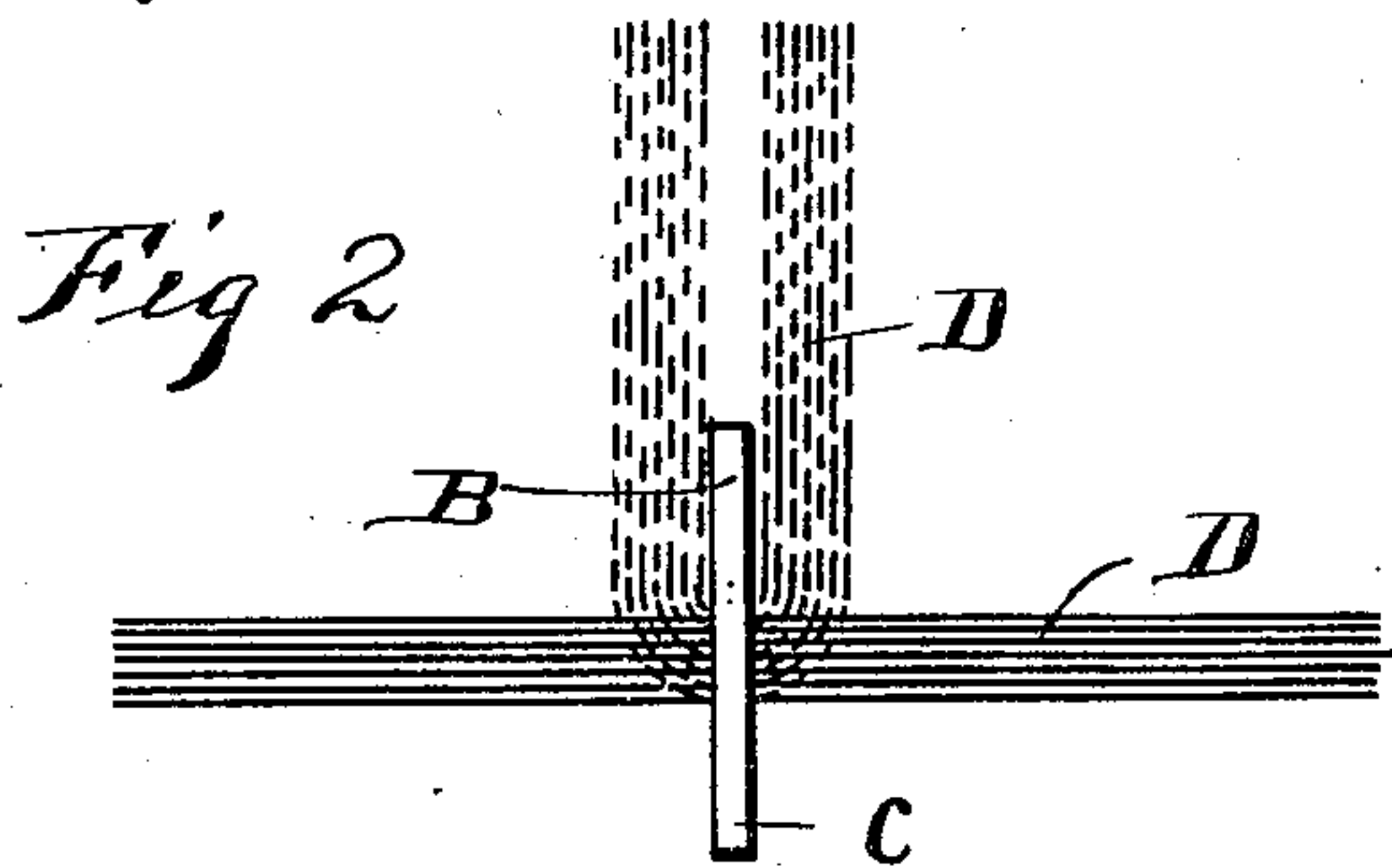
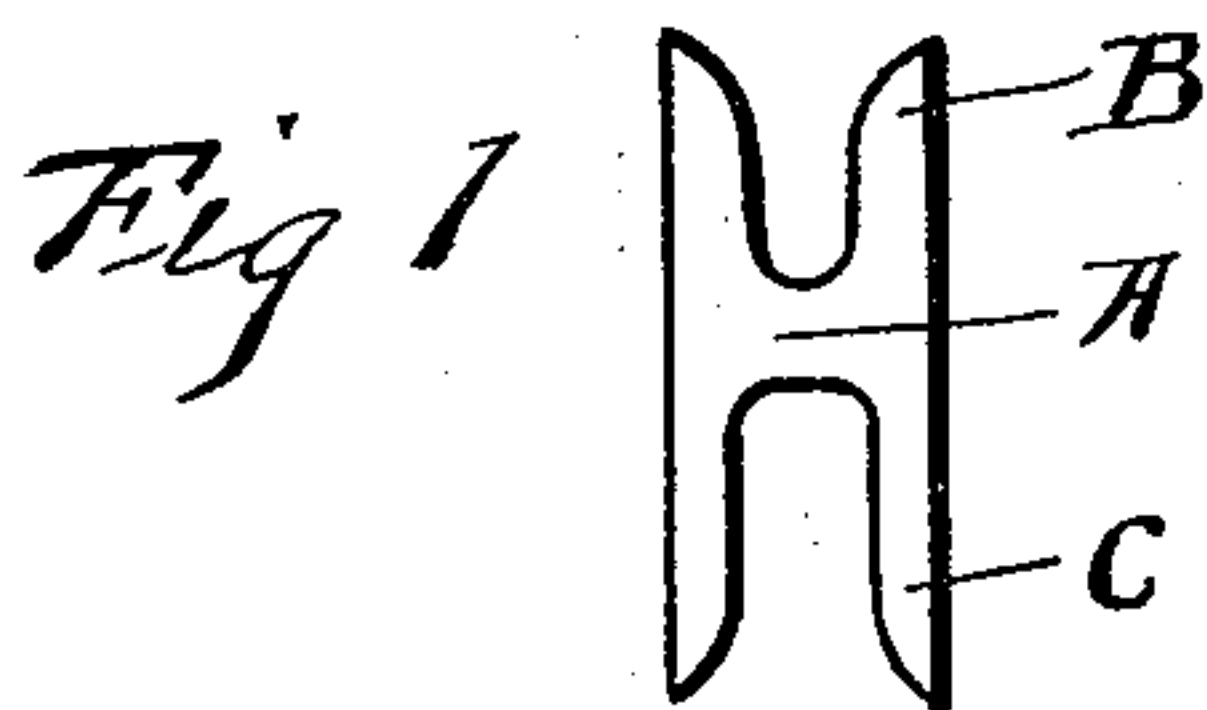
No. 730,689.

PATENTED JUNE 9, 1903.

D. P. PAGE.  
TUFT FASTENER.

APPLICATION FILED FEB. 26, 1903.

NO MODEL.



WITNESSES  
*Harry J Perkins,*  
*Mary S. Tooker*

INVENTOR  
*David P. Page*  
BY his ATTORNEY,  
*Edward J. Jaggart*

# UNITED STATES PATENT OFFICE.

DAVID PORTER PAGE, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO GRAND RAPIDS BRUSH COMPANY, OF GRAND RAPIDS, MICHIGAN, A CORPORATION.

## TUFT-FASTENER.

**SPECIFICATION** forming part of Letters Patent No. 730,689, dated June 9, 1903.

Application filed February 26, 1903. Serial No. 145,192. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID PORTER PAGE, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Tuft-Fasteners, of which the following is a specification.

This invention relates to a new and improved device for securing bristles into brush bodies or blocks, the device being usually termed a "tuft-fastener."

The invention consists of a metallic tuft-fastener constructed in such shape that one end thereof will securely clasp the tufted bristles, while the other end will engage with the brush-body, thereby securely retaining the bristles in position. The device is adapted for securing bristles to a wooden block or a block constructed of any suitable material and is also peculiarly adapted for attaching the bristles to a leather block or body.

The objects of my invention are, first, to furnish a tuft-fastener which will securely retain the bristles in position in the brush body or block whatever may be the material of the block; second, to furnish a tuft-fastener which can be easily and readily applied in attaching bristles to a brush body or block. These objects I accomplish by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my new and improved tuft-fastener. Fig. 2 shows an edge view of the tuft-fastener with the bristles in position in the lower jaw, the dotted lines showing the position which the bristles will assume when the tuft-fastener has been set into the brush body or block; and Fig. 3 is a sectional elevation of a portion of a brush body or block provided with an opening which receives the tuft-fastener and also shows the fastener after the same has been formed into position to clasp the tufted bristles, as well as to engage with the brush body or block, as hereinafter described.

Similar letters refer to similar parts throughout the several views.

The tuft-fastener is constructed of metal and is substantially H-shaped, having two sides of equal size and similar construction,

the two sides being connected together by the cross-piece A, as shown in Fig. 1. The lower arms C are intended to form jaws for engaging the bristles. Each arm C is curved on the inner side to meet the straight outer side, so as to form a point. The upper arms B are constructed substantially in the same manner as the lower arms C, but are preferably made a little shorter and a little broader; but the upper arms B are curved from the inside outwardly, so as to form points.

The tuft-fastener is set into the brush body or block by means of any suitable mechanism.

D in solid lines shows the position of the bristles in Fig. 2 when they are first placed within the jaws.

D in dotted lines, Fig. 2, shows the position of the bristles when bent upwardly, as they appear after being set into the brush body or block.

After the tufted bristles are placed in the tuft-fastener the two jaws C are bent together, as shown in Fig. 3, so as to securely clasp the bristles. The tuft-fastener in this position is then drawn into an opening in the brush body or block E, and by means of any suitable implement the arms B are spread open, as shown in Fig. 3, so as to engage securely with the brush body or block E, Fig. 1 showing the tuft-fastener before it has been operated upon and Fig. 3 showing the position of the tuft-fastener after the lower jaws have clasped the tufted bristles and after the upper jaws have been bent outwardly to engage with the brush body or block.

The tuft-fastener may be constructed of metal or any suitable material. The opening in the block or brush body may be constructed in any suitable manner.

The tuft-fastener can be used in setting bristles into a wooden body or a body of any suitable material and is peculiarly adapted for setting bristles into leather.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

1. As a new article of manufacture a tuft-fastener for securing bristles in position, said fastener being substantially H-shaped, having two upper and two lower arms, said lower



arms adapted to clasp the tufted bristles and the upper arms adapted by bending outwardly for engagement with the object to which the bristles are to be secured, substantially as described.  
5

2. A tuft-fastener for securing bristles into position, said fastener being H-shaped and provided with two upper arms, curved on the inside, and two lower arms curved on the in-

side and having two straight parallel sides, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DAVID PORTER PAGE.

Witnesses:

CHARLES M. WILSON,  
MARY S. TOOKER.