

T. DILLON.

Brush.

No. 207,110.

Patented Aug. 20, 1878.

Fig. 1.

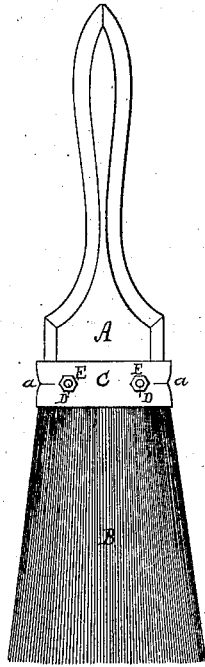


Fig. 2.

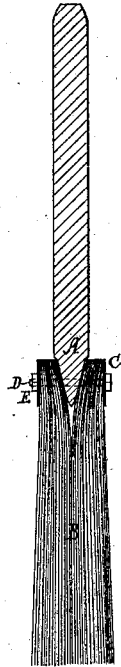


Fig. 3.

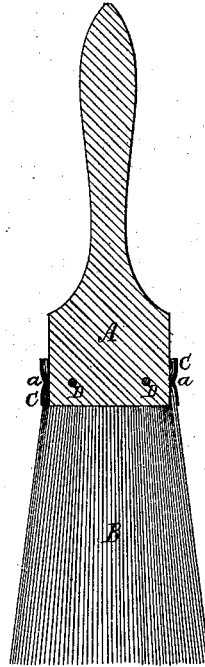


Fig. 5.

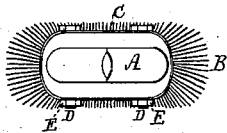
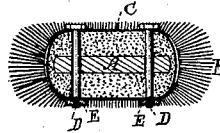


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS DILLON, OF MALDEN, ASSIGNOR TO JOHN F. BOWDITCH, OF
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IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. 207,110, dated August 20, 1878; application filed
July 1, 1878.

To all whom it may concern:

Be it known that I, THOMAS DILLON, of Malden, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Brushes; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, Figs. 2 and 3 vertical sections, Fig. 4 a transverse section, and Fig. 5 a top view, of a brush having my invention.

My improvement relates to that class of brushes for which Letters Patent, dated September 19, 1876, were granted to John F. Bowditch—that is to say, the brush to which my improvement belongs has a wedge-shaped stock, a mass of bristles, a metallic hoop or collar, and a series of clamping screws and nuts, all being arranged and applied as described and shown in such patent.

My improvement is intended to obviate a difficulty incident to such a brush when its hoop or metallic collar is contracted upon the mass of bristles by the screws and nuts, as it will be seen that such a contraction will generally produce more or less of a longitudinal extension of the collar, whereby its hold on the bristles encompassed by its curved ends will become diminished or insufficient; also, that by contracting the collar by the screws, the mass of bristles will be compressed in the directions of the axes of the screws, and not transversely thereto, in consequence of which the bristles within the curved parts of the collar are rendered liable to work loose and out of the mass.

In carrying out my invention, I make the collar concave in its round parts, from the top to the bottom of such, as represented at *aa* in the drawings, in which *A* denotes the wedge-shaped stock; *B*, the mass of bristles; *C*, the hoop or collar; *D D*, the clamping-screws, and *E E* their nuts. I prefer to produce in the collar the concavities after it may have been clamped on the bristles, and by any proper means, though they may be made in it before applying and fixing it to the bristles.

By holding the collar firmly between jaws, or in a vise, after such collar may have been contracted on the bristles by the screws and nuts, each of the round ends of the collar may be concaved or “set in” upon the bristles by a suitable tool properly forced against it, or by a hammer struck against the head or handle of the tool. By thus setting in each curved part at and along its middle it will be contracted upon or so bent or curved into the mass of bristles as to firmly hold in place those within it.

What I claim as my invention is as follows—that is to say:

As an improvement in the manufacture of brushes, the method of increasing the bite of the band upon the bunch of bristles—viz., by crimping or indenting the ends of the band or collar upon the bristles, as described.

THOS. DILLON.

Witnesses:

R. H. EDDY,
JOHN R. SNOW.