

W. A. MEGRAW.
Brush.

No. 160,933.

Patented March 16, 1875.

Fig. 1.

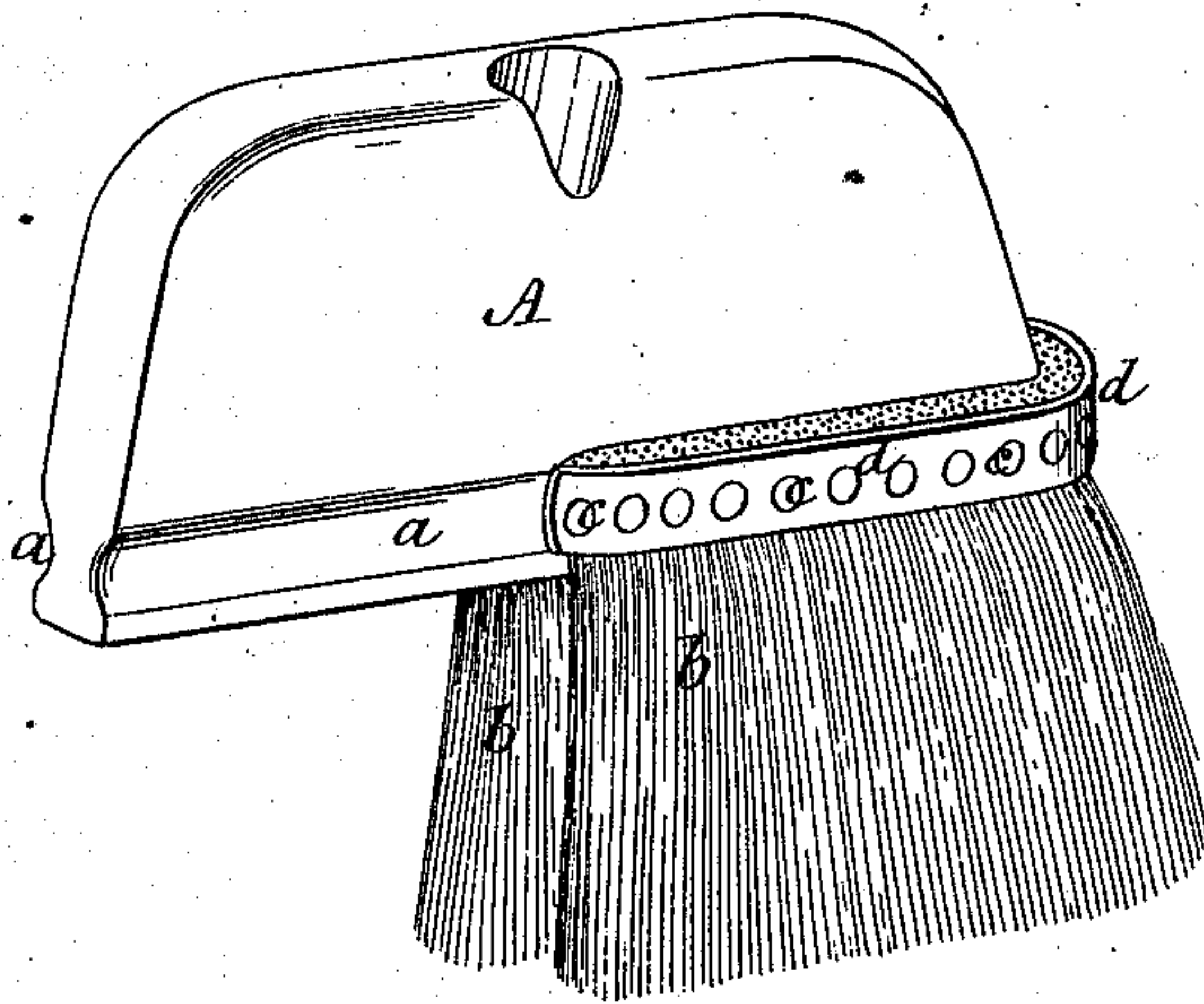
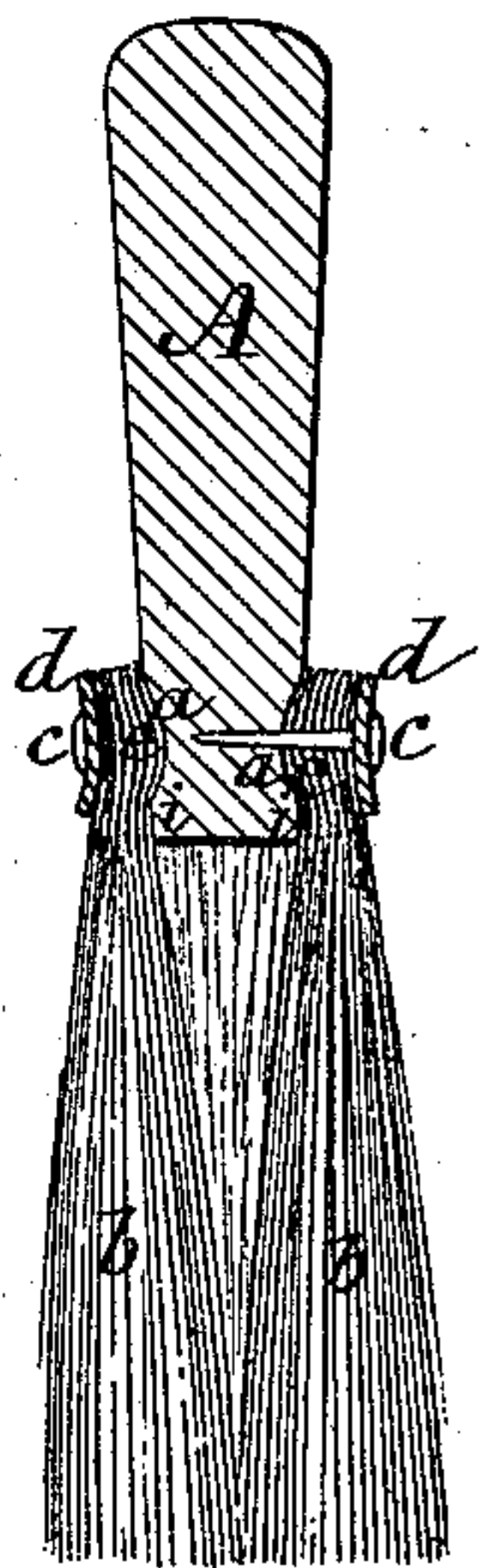


Fig. 2.



Witnesses.
T. B. Smith
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UNITED STATES PATENT OFFICE.

WILLIAM A. MEGRAW, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. **160,933**, dated March 16, 1875; application filed September 21, 1874.

To all whom it may concern:

Be it known that I, WILLIAM A. MEGRAW, of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in what are known as Whitewash, Paper-Hangers', or Plasterers', Nailed Brushes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents, in perspective, a portion of a nailed brush constructed after my plan; and Fig. 2 represents a vertical cross-section taken through the same.

The common method of making these nailed brushes is to nail the bristles to a smooth block through a leather strip, and by cement or composition of some kind upon the upper ends of the bristles rely upon holding them from being pushed up or pulled out. Brush-blocks, however, have been shouldered or rabbeted at the edges, and the bristles placed and nailed in these rabbets. By this plan the bristles cannot be pushed up, but they are easily pulled out.

My invention consists in nailing the bristles through a leather strip, and in a groove formed at or near the bottom of the block, so that the butts of the bristles shall be bent in a curved form corresponding to the shape of the groove, and neither the force to push up or pull out the bristles shall come in a direct line with the body of the bristles.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A represents a brush-block, the lower edge of which is grooved, as at *a*. The bristles *b* are placed with their upper ends in this groove, and are nailed therein by nails *c* passing through the leather or other similar strip *d*, and the extreme upper ends of the bristles above the strap or strip *d* may be singed, cemented, or otherwise covered, as is common with brush-makers.

It will be seen that by nailing the bristles in a groove, as herein shown, they are bent, as at *e*, inward, and then out over the abutments at *i*, which spreads the bristles, and gives the brush a more full appearance, while the strain upon the bristles is not in a direct line, and they are consequently not so liable to be pushed up or pulled out.

What I claim in a nailed brush is—

The groove *a* in the brush-block, and the bristles *b* nailed to said block in said groove through the strap or strip *d*, as and for the purpose described and represented.

WM. A. MEGRAW.

Witnesses:

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JOHN R. RENNOUS.