

W. B. Burnett,

Paint Brush.

No. 110,628.

Patented Jan. 3, 1871.

Fig. 3.

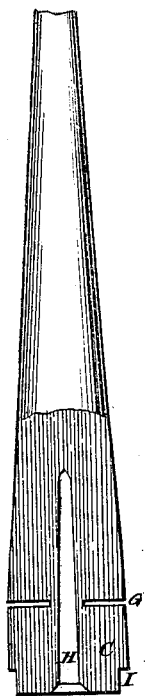


Fig. 1.

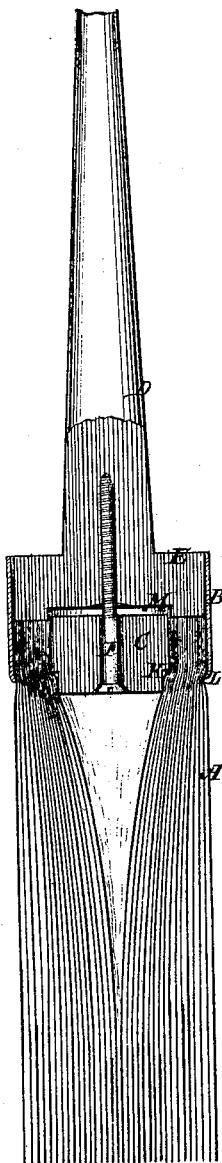
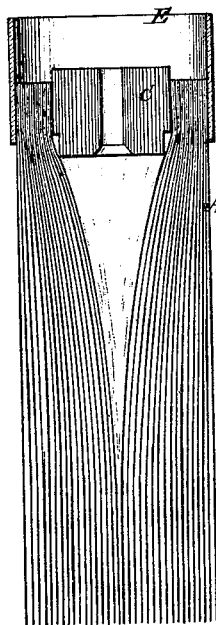


Fig. 2.



Witnesses:

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Inventor:

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PER

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# United States Patent Office.

WILLIAM B. BURTNETT, OF NEW YORK, N. Y.

Letters Patent No. 110,628, dated January 3, 1871.

## IMPROVEMENT IN PAINT-BRUSHES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, WILLIAM B. BURTNETT, of the city of New York, in the county and State of New York, have invented new and useful Improvements in Paint-Brushes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in the construction of paint-brushes; and

It consists in improvements in the construction of the conical plug by which the bristles are wedged into the ferrule, and the handle is secured in the ferrule to facilitate the application of the plug and the tightening of the bristles.

It also consists in an improved arrangement of the handle and the plug relatively thereto, to facilitate tightening up the bristles in case they become loose by the shrinkage of the plug, all as hereinafter described.

Figure 1 is a sectional elevation of a complete brush when constructed according to my improved plan;

Figure 2 is a section of the ferrule, plug and bristles; and

Figure 3 is a section of the plug.

Similar letters of reference indicate corresponding parts.

Paint-brushes are now made by wedging the bristles A in the ferrule B by a conical plug, C, and attaching the handle D, having a disk, E, fitting into the ferrule above the bristles, by a screw, F, passing through the plug and screwing into the handle.

My present invention, in relation to the construction of the plug, consists in forming a deep groove, G, where the excess or long tapered point is to be separated after driving in, the said point being used to facilitate driving through the bristles.

It also has the hole H bored through the plug proper, C. This is to facilitate the separation of the excess after being driven in, the said excess being employed because of the facility with which the small pointed end may be forced through the bristles, which are packed as closely in the ferrule as they can well

be at first, and would resist the insertion of a short plug of the diameter required, whereas, this long one may be easily inserted, and will gradually force them apart the requisite distance for the admission of the plug proper, C.

To cut these long points off after being driven in, when not previously prepared with the groove G, represented, requires, in order to do it as nearly perpendicular to the axis as necessary, that the brush be chucked in a lathe, and the employment and adjustment of a peculiar tool which will work in the ferrule, whereas, by doing it in this way, which is simply cutting the groove by an ordinary narrow turning-tool while the plug is being turned, the labor is greatly simplified. The point is finally detached by breaking off the small part at the bottom of the groove.

I also provide the annular rebate I, at the base of the plug, into which the bristles immediately surrounding the said base are to be forced, as represented at K, fig. 1, by the greater contraction opposite the said point of the whole mass by the edge L of the ferrule, which is bent inward thereat, as shown. This holds both the bristles and the plug in more firmly than would otherwise be the case.

As these larger wood plugs are liable to shrink after the brushes have been made, I propose to counter-sink the disks E, as shown at M, to provide a space above the upper end of the plug, which need not be driven in at first higher than the upper ends of the bristles, so that, by driving in the screw further, the plug may be forced upward into the space to tighten the bristles.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The circumjacent socket B L, and central plug C K, combined as described, with the handle and bristles of a paint-brush, for the purpose specified.

W. B. BURTNETT.

Witnesses:

GEO. W. MABEE,  
T. B. MOSHER.