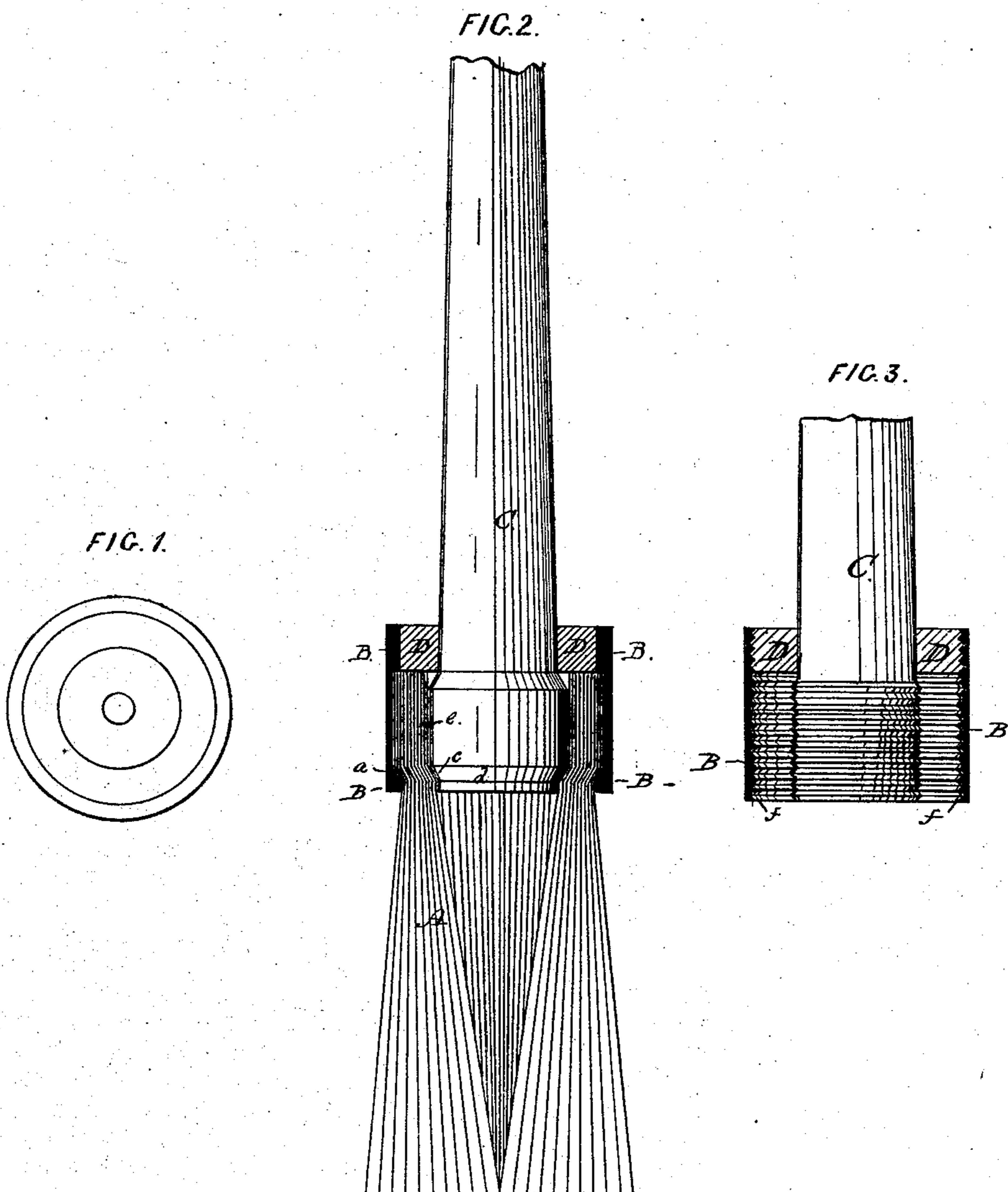


A. WORCESTER.
Paint-Brushes.

No. 156,621.

Patented Nov. 3, 1874.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ASA WORCESTER, OF EAST CAMBRIDGE, MASSACHUSETTS.

IMPROVEMENT IN PAINT-BRUSHES.

Specification forming part of Letters Patent No. **156,621**, dated November 3, 1874; application filed November 19, 1873.

To all whom it may concern:

Be it known that I, ASA WORCESTER, of East Cambridge, in the county of Middlesex, in the State of Massachusetts, have invented an Improvement in Paint-Brushes, of which the following is a specification:

This invention relates to that class of paint-brushes in which the bristles are secured within a metallic ferrule by binding them against the interior of the ferrule from the driving of the handle through the center of the bunch of bristles.

The invention consists in a novel construction, to be hereinafter described, of the interior of the ferrule, and of the part of the handle which is within the ferrule.

In the accompanying plate of drawings my invention is illustrated, Figure 1 being a top view; Fig. 2, a central section through the length of the brush; and Fig. 3, a sectional view, showing a modified construction of the ferrule and handle.

In the drawings, A represents the bunch of bristles; B, the metallic ferrule; C, the handle; and D, a wooden block closing one end of the ferrule. The handle C is provided with an abrupt shoulder, *g*, which is in the present instance inclined, and is for the purpose of bearing evenly and squarely on the under side of the disk D when the handle is driven into position, by which means it is perfectly centered and retained in a true perpendicular position. *a*, a bevel or incline encircling the interior periphery *b* of the ferrule, at or near its lower edge; and *c*, a bevel or incline encircling the handle C, at or near its end *d*, which is the end within the ferrule, as shown. These two bevels *a* and *c*, when the handle is driven to its position within the bunch of bristles A, are substantially opposite to each other, and

between them the bristles are confined in a line at an angle to their confinement within the ferrule by the straight portion *e* of the handle. This angular inclination at both the outside and inside circles of the bristles greatly increases the security of the bristles from escape.

In Fig. 3 the construction of the ferrule and handle is the same as shown in preceding figures, except that it is repeated for the entire width of the interior periphery *f* of the ferrule, and the exterior periphery of the handle within the ferrule.

It will be seen from the foregoing description that when the handle is driven into position the incline or shoulder *g* will come in contact with the disk D, and then be stopped, by which means the handle is perfectly and truly centered, and any liability to assume any but a perpendicular position be avoided. I consider this of the utmost importance, as it obviates the expense and trouble of driving the handles into position, in order to have them perfectly perpendicular, which has only heretofore been accomplished by costly machinery.

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

The handle C of a brush constructed with an abrupt shoulder, *g*, in combination with the block or disk D and ferrule B, substantially as and for the purpose described.

The above specification of my invention signed by me this 9th day of October, A. D. 1873.

ASA WORCESTER.

Witnesses:

EDWIN W. BROWN,
J. P. McELROY.