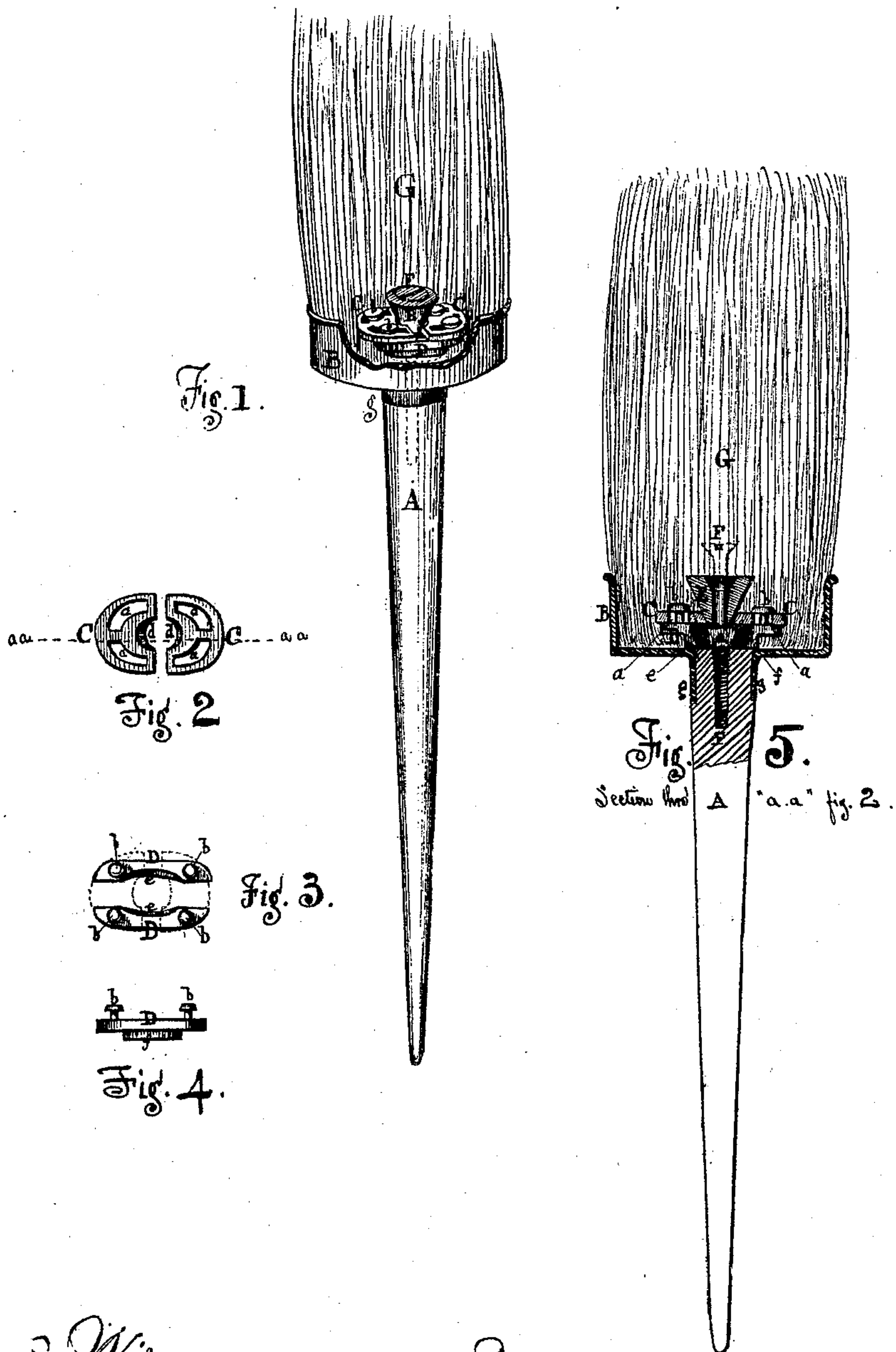


McDonald & White,

Paint Brush.

No. 106384

Patented Aug. 16. 1870



Witnesses
Henry M. Wells
W. C. Strickler,

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United States Patent Office.

ALVIN McDONALD AND JAMES M. WHITE, OF WASHINGTON, ILLINOIS.

Letters Patent No. 106,384, dated August 16, 1870.

IMPROVEMENT IN PAINT-BRUSH.

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

To all whom it may concern:

Be it known that we, ALVIN McDONALD and JAMES M. WHITE, both of Washington, in the county of Tazewell, in the State of Illinois, have invented a new and useful Device for Securing the Bristles to the Shell or Handle of a Paint-Brush; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view of the device and brush.

Figure 2, a superficial view of the half disks.

Figure 3 represents the carriers or supports of the half disks, from above.

Figure 4, longitudinal elevation of the latter.

Figure 5, vertical section of the whole brush.

This invention relates to a device for the removal of the worn out bristles in paint-brushes, or similar tools.

A represents the handle of the brush.

B, a shell or bristle-holder, with a socket, *g*, beneath, which incloses the handle A.

C C, two small half disks, of metal, with segmental slots *a a a a* parallel with the curves, and with chamfered segmental centers *d d*.

D D, two "carriers" or supports for the half disks, placed parallel with each other, and to which they are attached by means of pins, rivets, or screws *b b*, one at each end of the "carrier." Each screw or pin is securely fixed in the carrier, and passes upward through and works freely in its respective slot in the half disk.

An offset, *f*, is below each carrier.

E is a cone, or a screw with a conical head, which, on turning the screw, (which of course passes between or in the center of the device just described, C C, D D,) into the handle of the brush, securely fastens the whole device.

The operation of this invention is as follows:

The cone E is inserted, by its point, into the orifice *d d*, between the half disks, and a turn or two given to the screw F, which passes through it; the bristles are inserted around the "shell" or bristle-socket B, and the screw is then made tight, forcing the cone downward, and against the half disks and their carriers, thus expanding the parts and holding the bristles. The segmental slots *a a a a* cause the equal expansion, in connection with their respective pins *b*, &c., of the bristle-holder C C D D. The offset *f*, beneath each of the carriers D D, offers a recess, in which the ends of the bristles are clinched, as it were, and prevented from withdrawing.

What we claim as our invention is—

The bristle-holder, when constructed of the pieces C C, with their slots *a a* and segmental centers *d d*, the carriers D D with pins *b b b b*, or equivalents, and their segmental centers *e e*, and their offsets or bases *f f*, combined with the cone E, or equivalent, screw F, handle A, bristle-shell B with its socket *g*, and bristles G, substantially as and for the purposes described.

In testimony that we claim the foregoing paint-brush, we have hereunto set our hands this 14th day of June, 1870.

ALVIN McDONALD.
JAS. M. WHITE.

Witnesses:

HENRY W. WELLS,
W. C. STICKLER.