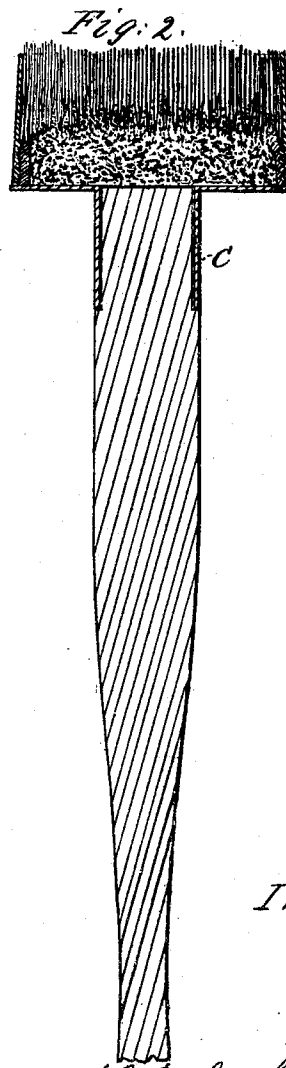
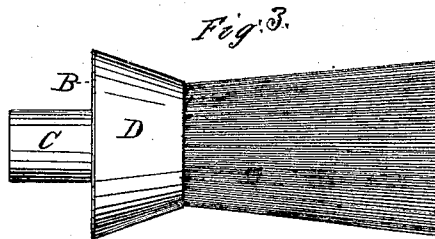
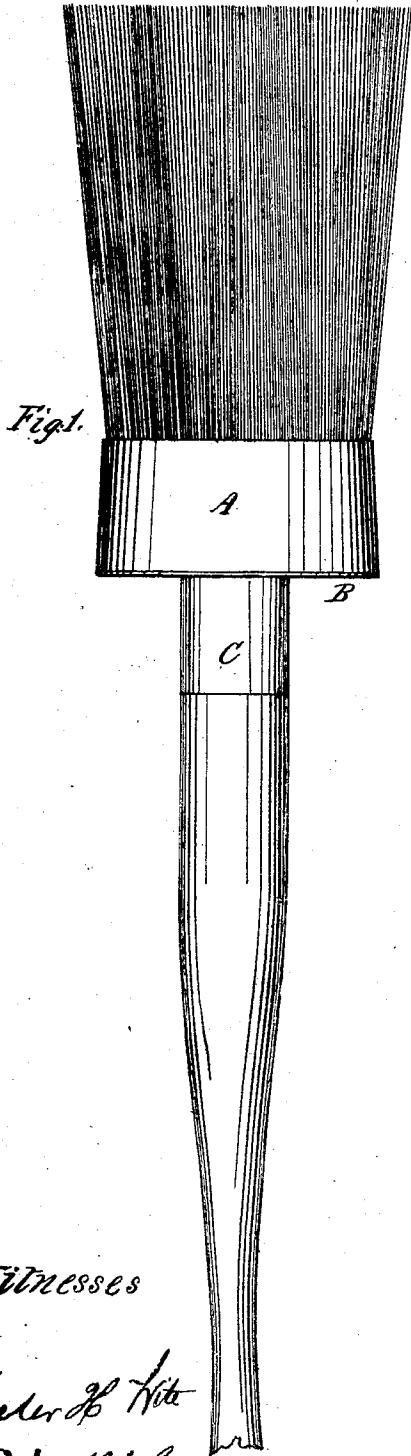


LAVINE A. LIGHTENHOME.

Paint-Brushes.

No. 133,996.

Patented Dec. 17, 1872.



Witnesses

John H. Hite
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Inventor

L. A. Lightenhome

UNITED STATES PATENT OFFICE.

LAVINE A. LIGHTENHOME, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PAINT-BRUSHES.

Specification forming part of Letters Patent No. **133,996**, dated December 17, 1872.

To all whom it may concern:

Be it known that I, LAVINE A. LIGHTENHOME, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Brushes, of which the following is a specification:

My invention relates to an improvement in the class of paint and varnish brushes whose bristles are secured in a tapered or conical ring, and their handles in the socket of a cap or disk adapted to screw into the same. The improvement consists in a mode of securing the bristles more efficiently than heretofore by means of cement, which is placed in the space or cavity between the screw-cap and heads of the bristles, and forced into or among the same by driving the handle into its socket, all as hereinafter described.

Figure 1 is an elevation of a paint-brush constructed after my plan. Fig. 2 is a section of the same, showing the cement-wedge filling. Fig. 3 is an elevation of a varnish-brush, differing from the paint-brush only in the form of the band or bristle-socket.

A represents the band which holds the bristles. It is in the form of a horizontal section of a hollow cone, and is screw-threaded internally at its larger end to adapt it for connection with the cap B, which has the handle-socket C.

To fill the band A I take the requisite quantity of bristles and force them through it far enough to leave a space of one-quarter inch between them and the cap B when screwed in. I next fill the space thus formed with cement, by introducing it through the socket C. The handle is driven into the socket, forcing the

cement before it, and causing it to fill the interstices between the bristles, acting as an indefinite number of minute but plastic wedges, which, however, quickly become hard or solid, thus securing the bristles individually and collectively in the most effective manner.

One of the chief advantages of this mode of fastening bristles in metal sockets is the relatively great pressure which can be imparted to the cement by the slight force requisite to drive the handle in its socket. This action does not force the bristles out of the ring, as might, perhaps, be inferred, since the force, acting on the bristles as a whole, and tending so to drive them out of the band A, is more than counteracted by the force made up by friction and the wedging power of the plastic material. Another advantage is the time saved in the construction of the brush, the cement being introduced and handle forced into its socket immediately the bristles are placed in the band. Soon as the cement is dry the brush is ready for use.

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

The improved brush formed of the band A, the screw-cap B, the socket C, handle D, and cement filling, all arranged as shown and described, whereby the cement is introduced through said socket and forced into or among the bristles, as specified.

L. A. LIGHTENHOME.

Witnesses:

PETER H. WITT,
C. O. McLANE.