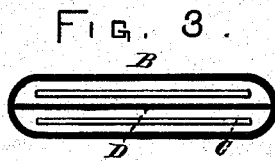
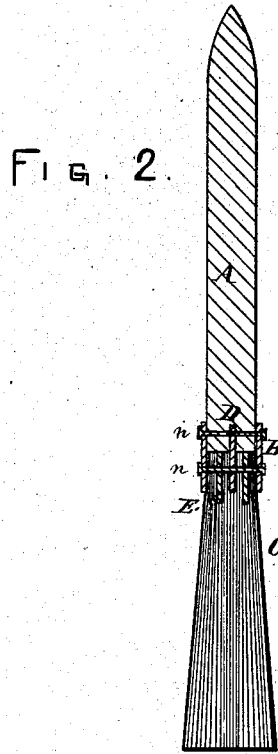
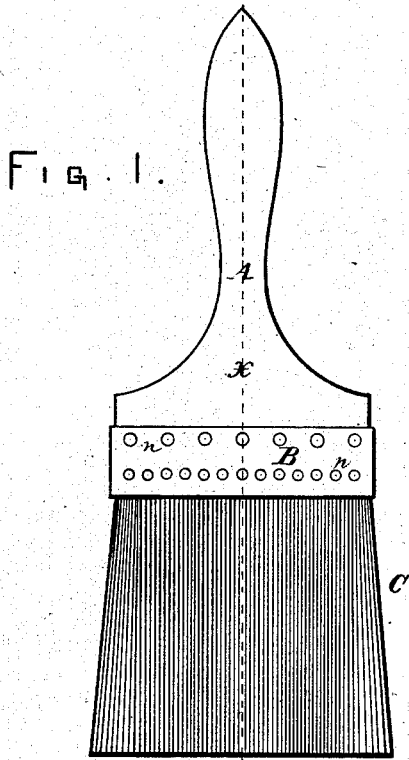


H. LUMBARD.
BRUSH.

No. 192,075.

Patented June 19, 1877.



ATTEST

O. H. Adix
Adolf Heile

INVENTOR:

Henry Lumbard
By G. L. Chapin.
Atty.

UNITED STATES PATENT OFFICE.

HENRY LUMBARD, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. 192,075, dated June 19, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that I, HENRY LUMBARD, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bristle-Brushes; of which the following is a specification:

The present invention relates to an improved mode of holding bristles in flat brushes of some considerable thickness. There is by present modes of fastening bristles in such brushes much difficulty in the shedding of bristles. I remedy this difficulty by the employment of a division-strip in the band, which separates the bristles in two sections, so that a brush of double thickness will hold the parts as firmly as they are now held in the thin brush.

In the drawings, Figure 1 is a view of the flat side of my improved brush complete for use. Fig. 2 is a longitudinal transverse section of Fig. 1 on line *g*. Fig. 3 is an end elevation of the brush-band and metal parting-strip, the handle being removed more clearly to show these parts.

B represents the ordinary ferrule or band which contains the bristles of the brush; and in the present mode of making brushes the bristles are put in one end of the ferrule and the handle A in the other end, the band at one end being riveted through the bristles, and at the other end riveted through the handle; but, as bristles get loose by this means of fastening, I place in the band, centrally and longitudinally, a metal partition, D, whose ends are fastened to the ferrule or

band B by solder or other suitable means, so as to divide the bristles in sections. This partition is of about the same width of the ferrule or band B, and, to insert the handle in the ferrule, a slot is cut centrally and longitudinally in its end, so as to pass onto the partition D. When the two-part ferrule or band B D is, in the ordinary manner, filled with bristles, rivets *n* are put through all the parts and headed firmly down, so as to compress the bristles as much as possible by this means. The slotted handle A is then inserted in the ferrule or band B, as shown in Figs. 1 and 2, and rivets put through it, the band B, and partition D, and closely headed down. The partition not only holds the bristles, but strengthens the band B, and makes the brush, in all respects, a better article of manufacture, and the bristles will not get loose at the edges.

I claim and desire to secure by Letters Patent of the United States—

The elongated metal band B, which is constructed to hold the bristles at one end and receive the handle A at the other end, the handle and bristles both being inserted in the band, in combination with a partition-plate, D, soldered fast to the band, and extended into a slot in the handle and into the bristles, and the handle and bristles being secured by rivets, as and for the purpose set forth.

HENRY LUMBARD.

Witnesses:

G. L. CHAPIN,
O. H. ADIX.