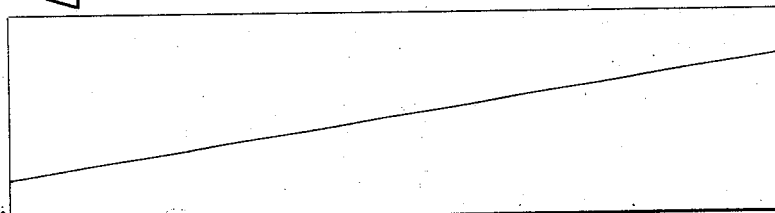
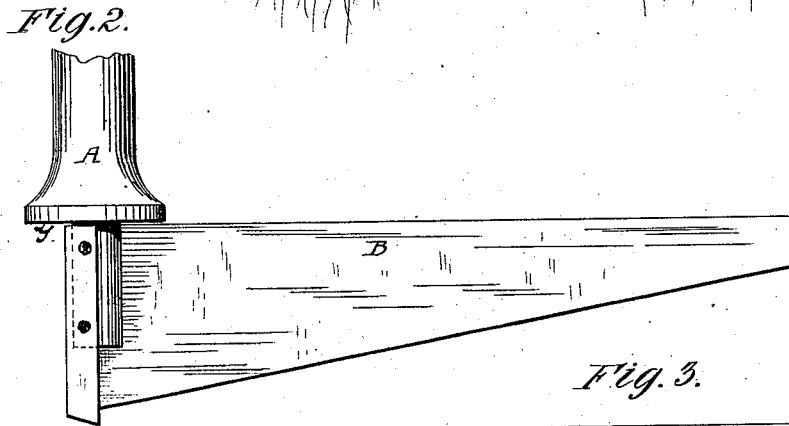
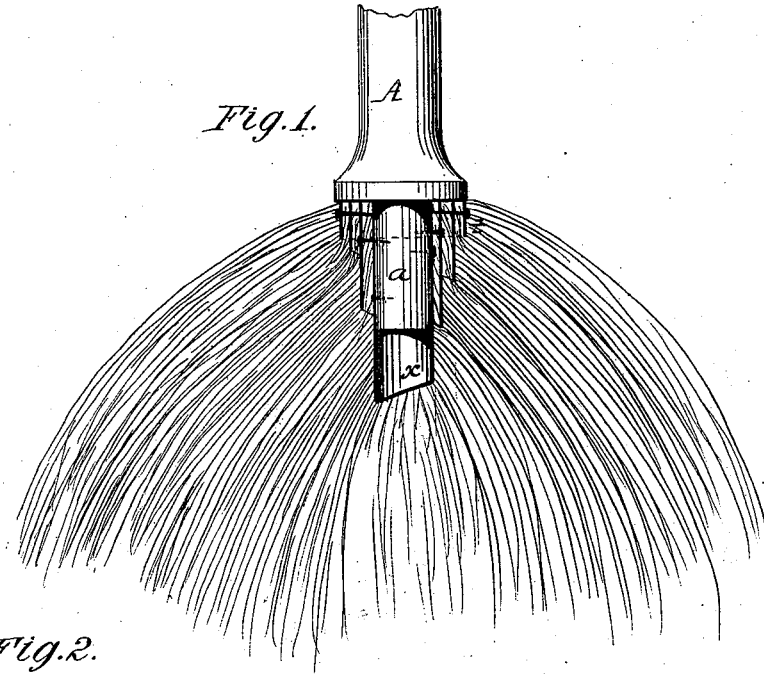


E. C. PATTERSON.  
Dust Brush.

No. 202,045.

Patented April 2, 1878.



Attest:

Geo Benjamin  
George Thoms

Inventor

E C Patterson  
By his attorney  
C E Foster

# UNITED STATES PATENT OFFICE.

ELIAS C. PATTERSON, OF ROCHESTER, NEW YORK.

## IMPROVEMENT IN DUST-BRUSHES.

Specification forming part of Letters Patent No. **202,045**, dated April 2, 1878; application filed February 5, 1878.

*To all whom it may concern:*

Be it known that I, ELIAS C. PATTERSON, of Rochester, Monroe county, New York, have invented an Improvement in the Manufacture of Dust-Brushes, of which the following is a specification:

My invention relates to that class of dusters in which the brush portion consists of long fleece or wool carried by a strip of skin attached to a suitable handle; and my invention consists in the manner described hereinafter of applying and connecting the skin to the handle so as to form an even, close, and distended brush, and prevent contact of any portion of the handle and articles upon which the brush is used.

In the drawings, Figure 1 is a section of my improved brush; Fig. 2, a view showing the manner in which it is constructed, and Fig. 3 a view showing the mode of cutting the strips.

The handle A is of any suitable shape, and is provided with a stud or projection, *a*, at one end. The strip B, of leather, is usually cut of the form shown in Fig. 2, wide at one end and diminishing at the other, two strips being cut without waste from one piece of uniform width, as shown in Fig. 3.

The wide end is tacked, with the wool outside, to the stud *a*, a portion, *x*, projecting beyond the latter, for the purpose described hereinafter. The strip is then coiled upon the stud, with its upper edge in contact with the shoulder *y* of the handle, and tacked at intervals until the whole has been secured, when a finishing-piece, *t*, is applied and the brush is complete.

When thus applied, each coil of the strip serves to bind down the wool upon the coil beneath, the edge of which, however, is exposed, so as to permit the wool to spread to the desired extent, a very close, even, and uniform brush being thus produced, while the tacks used to secure each successive layer pass through and secure those below, the heads be-

ing covered, so that they cannot rust and rot the hair.

By extending a portion of the strip *x* beyond the stud *a*, the latter is prevented from striking and injuring the article to which the brush is applied.

Although it is preferable to use a strip of varying width, a strip uniform in width may be coiled round the stud, each coil securing the fleece below it.

I am aware that a strip has been wound spirally on the stud, necessitating the use of a narrow strip, and making a thinner brush than can be obtained by the mode of coiling above described.

I am also aware that the skin has been made into a tube or bag projecting beyond the end of the stud, but liable to break when hit.

By coiling the strip on itself and extending it beyond the end of the stud, injury to articles on which it is used is prevented, while no amount of bending or pressure will break the extended portion. Moreover, the coiled extension of the strip presents a greater surface for the wool, and makes a brush much more full in the center.

I claim—

1. A dust-brush in which a fleece-covered strip, B, is wound about a stud of the handle and upon itself continuously in the same plane, and abuts against a shoulder, *y*, of the handle, as and for the purpose set forth.

2. A dust-brush in which the fleece-covered strip B is wound upon itself on the stud of the handle, abuts against the shoulder *y*, and part of the coiled portion extends beyond the stud, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

E. C. PATTERSON.

Witnesses:

CHARLES E. FOSTER,  
FRANK M. GREEN.