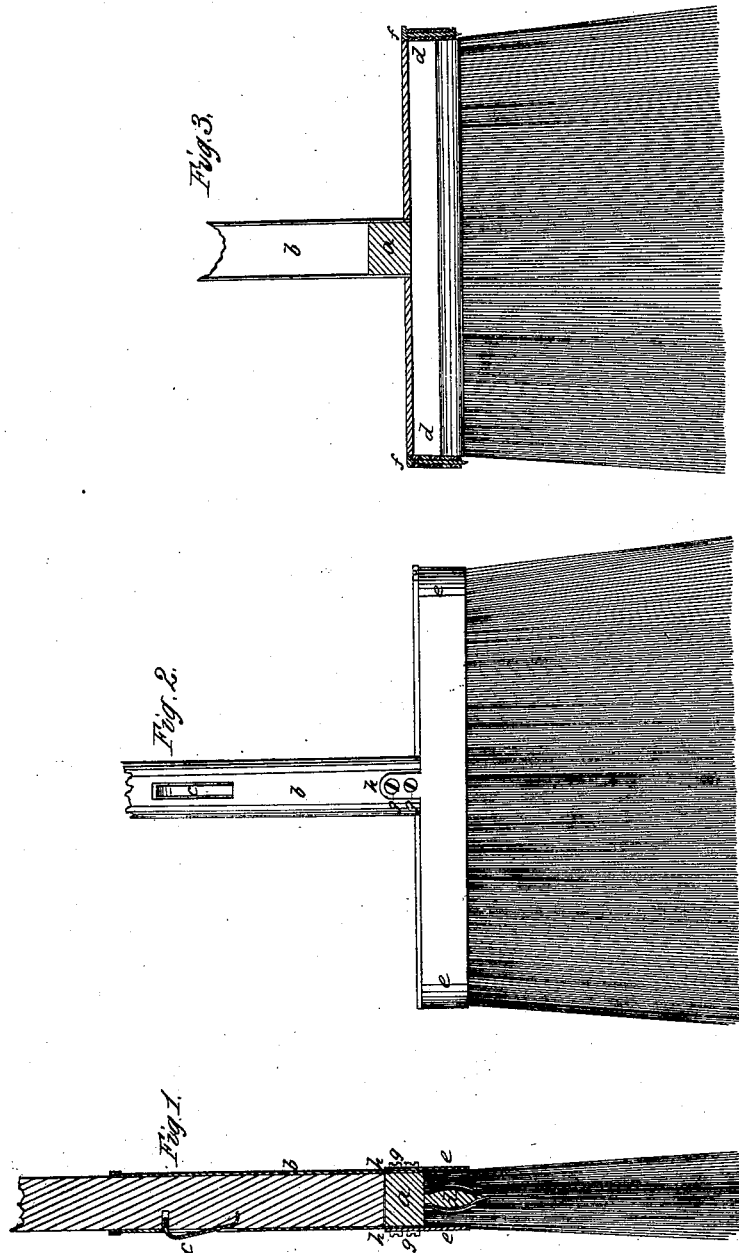


R. B. Lewis.

Brush.

No. 1,992.

Patented Feb. 23, 1841.



UNITED STATES PATENT OFFICE.

ROB. B. LEWIS, OF HALLOWELL, MAINE.

MANNER OF ATTACHING BRISTLES TO THE STOCKS OF BRUSHES FOR WHITEWASHING AND SUCH OTHER PURPOSES.

Specification of Letters Patent No. 1,992, dated February 23, 1841.

To all whom it may concern:

Be it known that I, ROBERT B. LEWIS, of Hallowell, in the county of Kennebec and State of Maine, have invented a new and useful Improvement in Brushes for Whitewashing and Such other Purposes to Which the Same may be applicable.

The said improvement, the principles thereof and manner in which I have contemplated the application of the same, by which it may be distinguished from other inventions, together with such parts or combinations I claim as my invention, I have herein set forth and explained in the following description and accompanying drawings, which taken in connection form my specification.

Figure 1, is a vertical cross section of my improved brush, Fig. 2 being an elevation and Fig. 3 a longitudinal-vertical section.

The usual method of confining the bristles in a brush for whitewashing and such like purposes is by a band of leather or metal surrounding and tacked to a rectangular block of wood, between which and the said band the bristles are confined. It will readily be apparent that this is a very inefficient way of confining the bristles and also that the operation of a brush so formed is somewhat defective, the divisions on the bristles (necessarily occasioned by the insertion of the nails) having a tendency to lay on the white wash or color in stripes as may frequently be observed, which destroys the beauty and finish of the work.

The object of my improvements is to effectually remedy these defects and to provide, as it were, a framework in which new bristles may be inserted at a trifling expense after the old ones become unfit for use.

A plug *a* Fig. 1, is inserted in the bottom of a cylindrical tube *b*—to the top of which a handle is connected by means of a slot and bent catch (similar to the common umbrella catch), as shown at *c*— in Figs. 1, and 2. To the underside of the plug *a* is connected or attached the double-chamfered bar *d d*,

the section of which would be somewhat elliptical (see Fig. 1), and which is equal in length to the width of the brush. The blunt ends of the bristles to be used in the brush are placed on each side of the bar *d d*, and are confined there by means of a metallic band *e e*, which surrounds the bar *d d* and bristles thereon. This band *e e* is halved or formed of two parts, which are united, at the sides of the brush, by means of common hinge joints through which pins are passed as shown at *f f* Fig. 3, and each of the said parts is connected or secured to the handle by screws *g g* passing through the ears *h h* and tube *b* into the plug *a*. From this arrangement it will be seen that after the heads of the bristles are cemented together by any suitable glutinous substance, it would require considerable force to remove even one from the body or brush; inasmuch as the band *e e* binds very firmly on the protruding parts of the bar *d d*, which would not permit it to pass. It will likewise be seen that by removing either of the pins *f f*, the old bristles may be thrown aside and new ones inserted, at a comparatively trifling expense.

Having thus described my improvements I shall claim as my invention as follows, viz:

Confining the bristles in a brush, (more effectually than heretofore,) by means of a double chamfered bar, (whose section would be elliptical and on which the bristles are placed), in combination with the metallic band *e e*, which is formed of two parts united by joints and pins as described, the whole being arranged substantially in the manner and for the purposes above set forth.

In testimony that the above is a true description of my said invention and improvement I have hereto set my signature this thirteenth day of August in the year eighteen hundred and forty.

ROBERT BENJAMIN LEWIS,

Witnesses:

JNO. OTIS,

JNO. P. FLAGG.