

R. B. Lewis.

Brush.

N^o 1,992.

Patented Feb. 23, 1841.

Fig. 3.

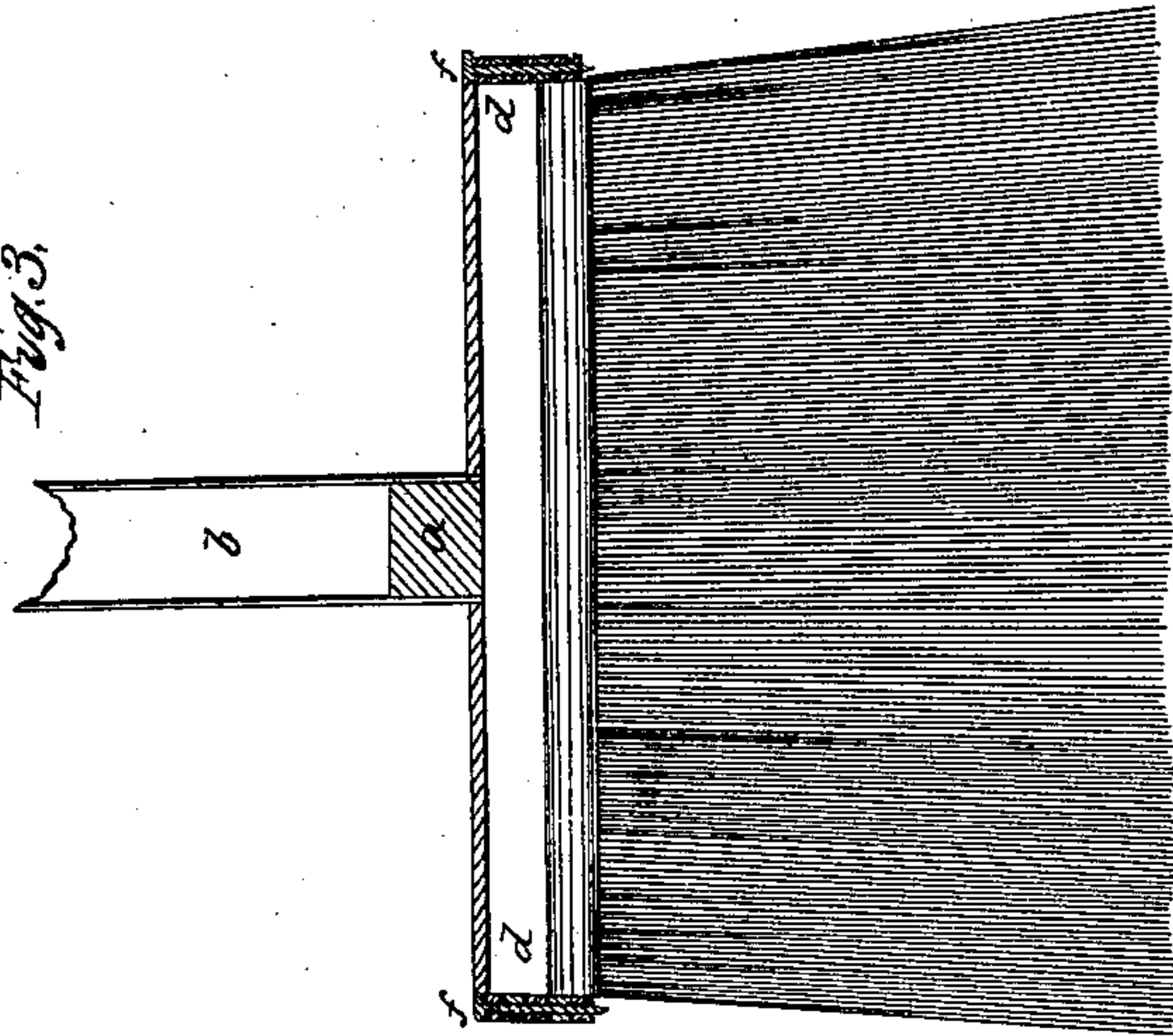


Fig. 2.

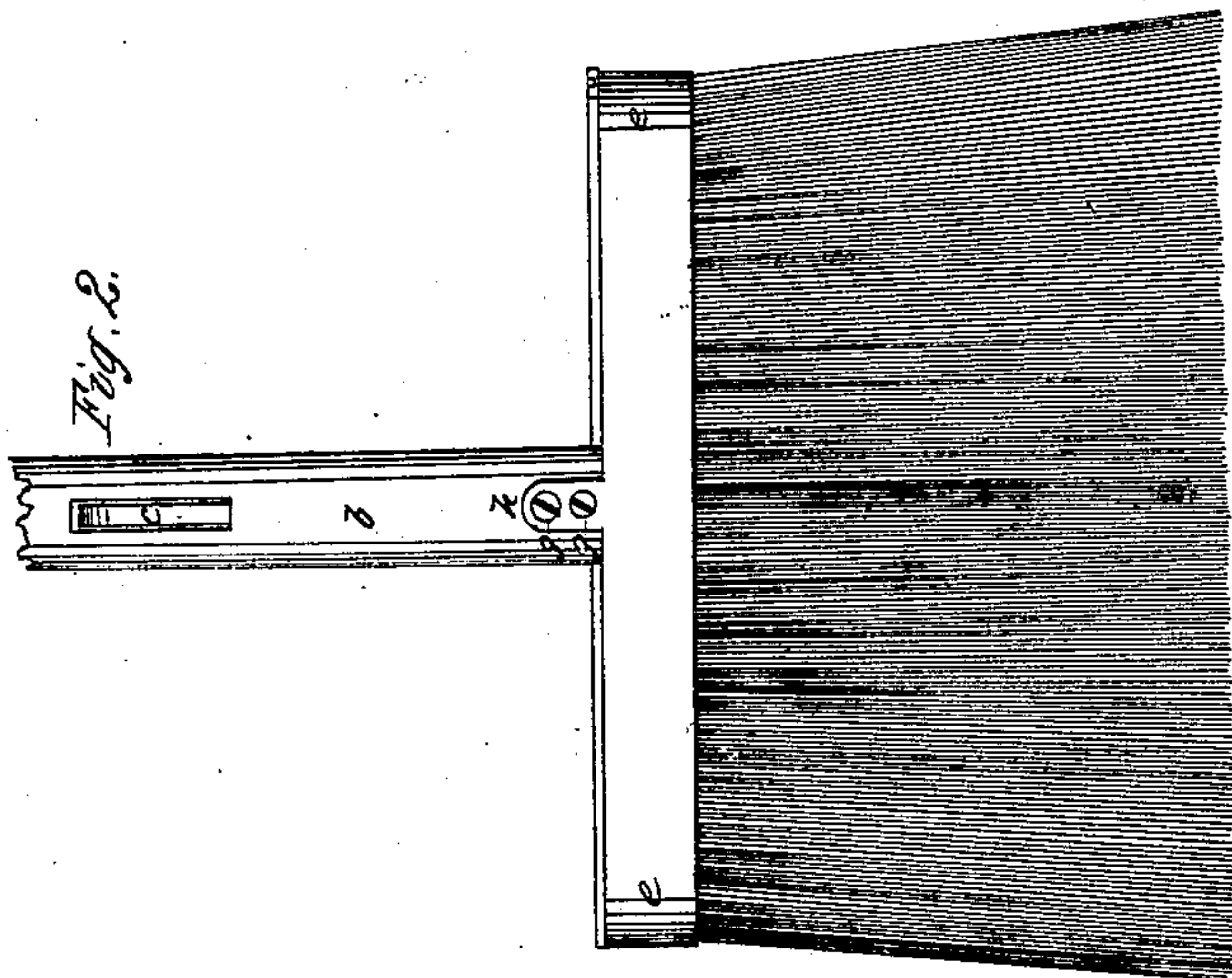
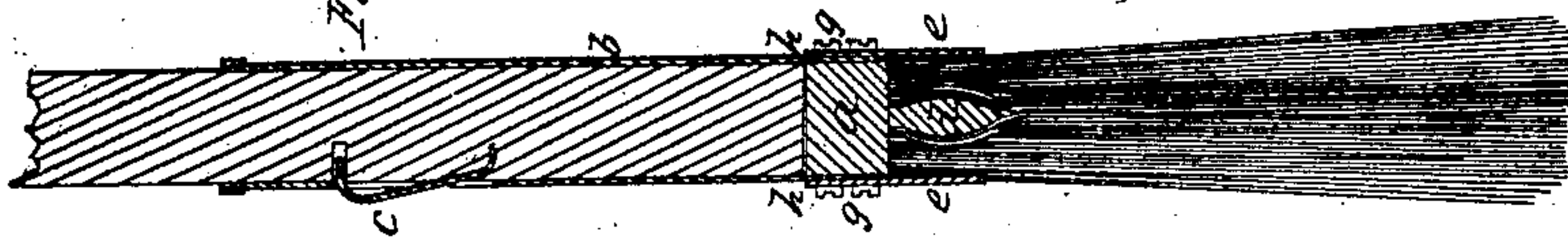


Fig. 1.



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
5 useful Improvement in Brushes for White-
washing and Such other Purposes to Which
the Same may be applicable.

The said improvement, the principles
thereof and manner in which I have con-
templated the application of the same, by
10 which it may be distinguished from other
inventions, together with such parts or com-
binations I claim as my invention, I have
herein set forth and explained in the fol-
15 lowing description and accompanying draw-
ings, which taken in connection form my
specification.

Figure 1, is a vertical cross section of my
improved brush, Fig. 2 being an elevation
20 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
25 block of wood, between which and the said
band the bristles are confined. It will
readily be apparent that this is a very in-
efficient way of confining the bristles and
also that the operation of a brush so formed
30 is somewhat defective, the divisions on the
bristles (necessarily occasioned by the inser-
tion of the nails) having a tendency to lay
on the white wash or color in stripes as may
frequently be observed, which destroys the
35 beauty and finish of the work.

The object of my improvements is to ef-
fectually remedy these defects and to pro-
vide, as it were, a framework in which new
bristles may be inserted at a trifling expense
40 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
45 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 50
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 55
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 60
by screws *g g* passing through the ears *h h*
and tube *b* into the plug *a*. From this ar-
rangement it will be seen that after the heads
of the bristles are cemented together by any
suitable glutinous substance, it would re- 65
quire 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 70
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: 75

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 80
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 de- 85
scription of my said invention and improve-
ment 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,