June 9, 1925. 1,541,710

M. W. HILL

BRUSH HANDLE

Original Filed Sept. 11, 1922

Fig. 1.

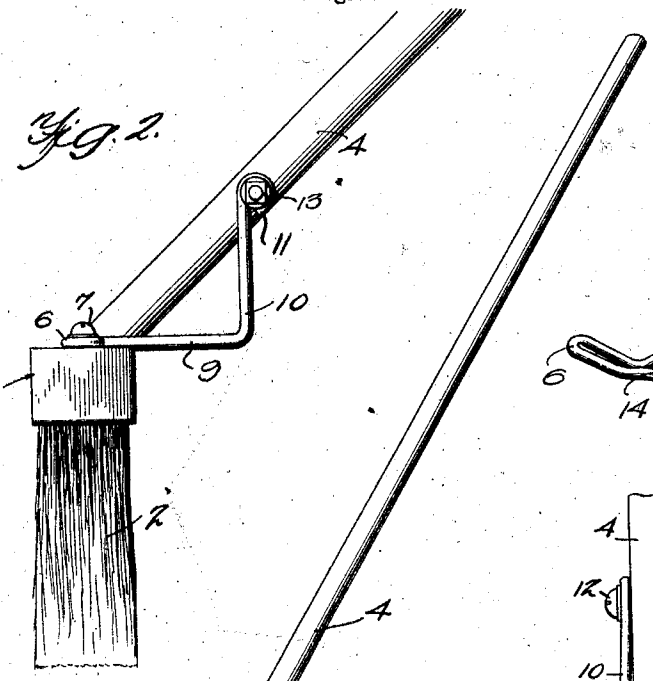


Fig. 2.

Fig. 6.

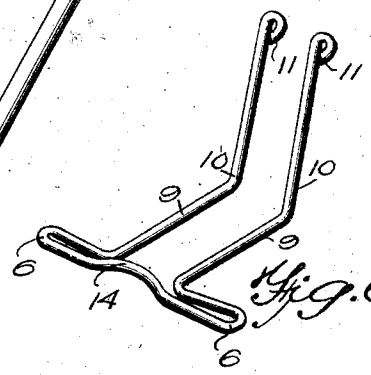


Fig. 3.

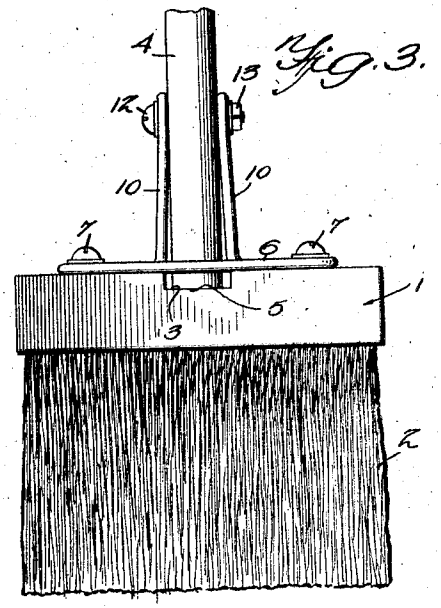


Fig. 4.

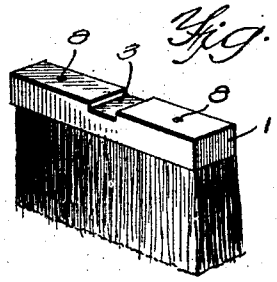
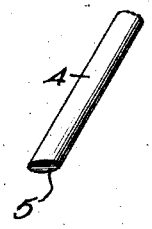


Fig. 5



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UNITED STATES PATENT OFFICE.

MALCOLM W. HILL, OF BALTIMORE, MARYLAND.

BRUSH HANDLE.

Application filed September 11, 1922, Serial No. 587,470. Renewed May 5, 1925.

To all whom it may concern:

Be it known that I, MALCOLM W. HILL, a citizen of the United States, residing in the city of Baltimore and State of Maryland, have invented certain new and useful Improvements in Brush Handles, of which the following is a specification.

This invention relates to brush handles, and more particularly to means for securing a brush thereto.

In the present invention, I provide a securing member adapted to be attached to the back of a brush and having a pair of arms extending therefrom. These arms are provided with ends arranged at right angles to the extending portions and adapted to be secured to the handle.

An object of the invention is the provision of a strong and flexible brush support which will reduce breakage of brushes and handles to a minimum.

A further object is the provision of a securing member that may be made of wire through an ordinary bending operation.

In the accompanying drawings, I have shown several embodiments of the invention. In this showing:

Figure 1 is a perspective view of the brush and handle secured to each other,

Figure 2 is a side elevation,

Figure 3 is a front elevation,

Figure 4 is a detail perspective view of the brush,

Figure 5 is a similar view of the handle, and,

Figure 6 is a perspective view of another form of the attachment.

Referring to the drawings, the reference numeral 1 designates the base of a brush which may be made of wood or other suitable material and is provided with bristles 2. The back of the brush is provided with a raised or cut-out portion 3. A handle 4 is adapted to be secured to the brush, the handle being disposed at an angle to the plane of the brush for convenience in cleaning or painting flat surfaces, such as walls, floors, roofs, etc. As shown, the lower end 5 of the handle is arranged at an angle and is adapted to lie flush with the back of the brush when the handle is secured thereto. The end of the handle is adapted to be received in the recess 3, as shown.

The brush is secured to the handle by means of a securing member. As shown, the securing member consists of a pair of loops 6, adapted to be arranged on opposite sides of the recess in the back of the brush. Suitable fastening elements such as screws 7, are passed through these loops and are received in openings 8 in the back of the brush. The loops are formed intermediate the ends of the securing member and the material is then extended rearwardly, forming a pair of arms 9, disposed in a plane parallel to the back of the brush, as shown in Figure 2 of the drawings. The ends of these arms are extended upwardly, as at 10, until they intersect the handle. These upwardly extending ends are coiled, as at 11, to receive a bolt 12. The end of the bolt is adapted to receive a nut 13, to hold it in position.

In the form of the invention shown in Figure 6 of the drawings, the loops 6 of the securing member are connected to each other by a horizontal portion 14 that is offset intermediate its ends, as shown. When this form of the attachment is secured to a brush head, the intermediate portion 14 is spaced a slight distance from the back of the brush head. The end of the handle is adapted to extend under this portion, which braces the handle against side play. By providing this offset portion, the necessity of the slot 3 is obviated as it serves the same function.

The operation of the device will be apparent from the foregoing description. When the handle is secured to the brush, the brush may be employed for painting or cleaning walls and floors. The normal strain when the brush is being used is on the end of the handle which is inclined, as at 5, to bear against the upper surface of the back of the brush. This strain is taken up by the handle support and breakage is eliminated. Long handled brushes of the type now in use are frequently discarded because the wooden back or base of the brush splits around the threaded opening that receives the handle, or the handle itself breaks adjacent the point where it is attached to the brush. Furthermore, the brush frequently works loose and much time is lost in replacing it. With the type of support herein described, the brush is rigidly supported, preventing it from working loose, and providing additional support at the point of maximum strain. The arms 9 and ends 10 spring under excessive strain, reducing breakage to a minimum.

The forward portion of the loops 6 forms

a stop which is engaged by the handle to prevent slipping. To remove the handle from the brush, the nut 13 is loosened and the bolt removed, or the screws 7 may be withdrawn from the brush in disassembling, thereby leaving the securing member on the handle.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a brush, a handle arranged at an angle to the base of the brush, a securing member formed of wire consisting of a pair of loops adapted to be secured to the base of the brush, the wire forming said loops being extended to form a pair of arms adapted to be arranged on opposite sides of the handle at an angle thereto, the ends of said arms being offset and extending toward said handle, and a fastening member passing through said handle and said offset ends.

2. In a device of the character described, a brush, a handle arranged at an angle thereto, the end of the handle being inclined to lie flush with the surface of the back of the brush, and a securing member formed of a single piece of wire having its intermediate portion extending over a portion of the back of the brush, the wire then being extended parallel to said intermediate portion to form a pair of loops, fastening elements arranged in said loops and engaging the back of the brush, said wire then being extended rearwardly from the back of the brush to form a pair of arms arranged on the opposite sides of said handle, the ends of said arms being extended at an angle to said arms toward said handle, and a fastening member passing through said handle and said ends.

In testimony whereof, I affix my signature.

MALCOLM W. HILL.