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PAINTBRUSH HAVING AN ADJUSTABLE AND REMOVABLE BRUSH HEAD

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Fig. 1.

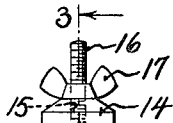


Fig. 2.

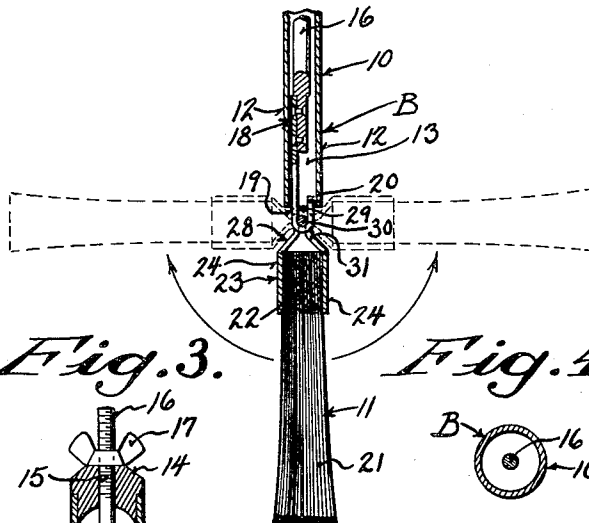


Fig. 3.

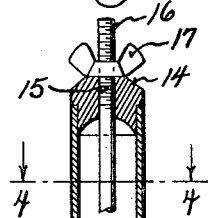


Fig. 4.

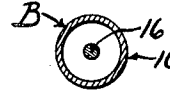


Fig. 5.

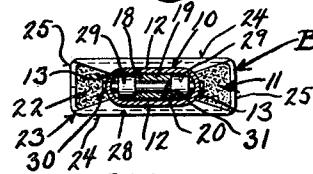
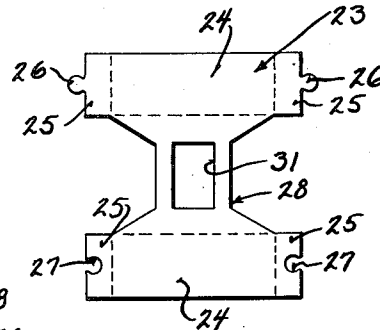


Fig. 6.



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PAINTBRUSH HAVING AN ADJUSTABLE AND
REMOVABLE BRUSH HEAD

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3 Claims. (Cl. 15—172)

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This invention appertains to paint and like brushes, and more particularly to a novel brush for facilitating the painting of hard to reach and out of the way places, such as behind radiators and the like.

One of the primary objects of my invention is to provide a paint brush embodying an elongated manipulating handle and a brush head, with means for adjustably holding the brush head firmly at any desired painting angle relative to the elongated handle, the elongated handle permitting the brush head to be easily inserted in hard to reach places.

Another salient object of my invention is to provide means for quickly and detachably securing a brush head to an elongated handle, whereby a selected brush head of any desired width can be used with the handle.

A further object of my invention is to provide novel means carried by the elongated handle for detachably engaging a part of the brush head and for firmly drawing such part into the handle for preventing lateral shifting of the head and for firmly holding the head against the handle at a desired angle.

A further important object of my invention is to provide a novel one-piece bridle for the brush head for connection with the handle and for co-operation with the clamping and holding means carried by the handle.

A still further object of my invention is to provide a paint or like brush of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described and claimed, and illustrated in the accompanying drawing, in which drawing,

Figure 1 is a side elevational view of my improved paint brush showing the brush head in its operative position on the handle and at a selected angle relative thereto.

Figure 2 is a fragmentary longitudinal sectional view through the forward end of the handle and through the brush head, showing the brush head parallel with the handle in one position and in dotted lines in different angular positions.

Figure 3 is a longitudinal sectional view through the complete paint brush taken at right angles to Figure 2, and on the line 3—3 of Figure 1, looking in the direction of the arrows.

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Figure 4 is a transverse sectional view through the handle taken on the line 4—4 of Figure 3, looking in the direction of the arrows.

Figure 5 is a transverse sectional view taken on the line 5—5 of Figure 3, looking in the direction of the arrows, and

Figure 6 is a plan view of the blank from which the brush head bridle can be formed.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter B generally indicates my improved brush and the same embodies an elongated handle 10 and an adjustable and removable head 11.

The handle 10, as previously set forth, is of an elongated character, and of such a length as to permit the brush head to reach behind radiators and other difficult places. This handle can be formed from any desired material, but preferably of a length of tubular metal. The handle adjacent to its forward end is flattened to provide spaced, parallel side walls 12 and connecting end walls 13. The rear end of the handle is preferably left in its cylindrical shape to form a convenient hand grip. The rear end of the handle is closed by a cap 14 having a smooth axially disposed bore 15 through which slidably extends an adjusting rod 16. The outer or rear end of the rod is externally threaded for the reception of a winged nut 17, which is adapted to bear against the cap 14, as will later appear. Carried by the forward end of the rod 16, is an open ended hook 18 having a flat shank 19 and a parallel flat bill 20. By loosening the nut 17, the hook 18 can be extended through the forward end of the handle to permit the interchanging and replacing of brush heads 11, as will later appear.

The brush head 11 includes the desired number of brush bristles 21 having their inner ends thoroughly embedded in hard rubber or plastic, in accordance with the usual practice, and as is indicated by the reference character 22. Firmly and rigidly connected to the inner end of the bristles is a bridle 23, constructed in a novel fashion and in accordance with this invention. The bridle is preferably, but not necessarily formed from a single blank of sheet metal and includes spaced parallel side walls 24, and connecting end walls 25. These end walls 25 are formed by right angularly bent flanges on the ends of the walls 24 and these flanges are provided with interengaging tongues and sockets 26 and 27, which hold the bridle tightly clamped on the brush. The inner edges of the walls 24 have formed thereon a connecting bridge piece 28 which is folded at

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its central portion to provide a barrel 29, which firmly grips and carries a hinge and lock pin 30. The terminals of the pin 30 extend beyond the barrel 29 and the barrel is provided with a central slot 31, so as to expose the central portion of the combination lock and hinge pin 30.

In use of my invention the brush heads 11 can be made in various widths and a brush head can be selected for the character of the work being done; after which, the nut 17 is loosened so that the hook 18 can be exposed at the forward end of the handle. The central portion of the pin 30 is now placed over the hook and obviously the hook can be readily inserted through the slot 31. Upon the threading of the nut 17 against the cap 14, the hook will be drawn into the handle carrying therewith the barrel 29. As the pin 30 reaches the handle, the brush head 11 can then be swung to a selected angular position or left parallel with the handle, as desired, and the nut is then continued to be turned and tightened so as to draw the terminals of the pin into tight binding contact with the edges of the end walls 13 of the handle, and the brush head will then be firmly clamped in position. It is to be noted that when the hook 18 is drawn into the handle 13, displacement of the pin off of the hook is prevented and it is to be further noted that portions of the hinge barrel ride into the handle and engage the inner surfaces of the end walls 13 thereof, so that lateral shifting of the brush head is prevented.

When brush heads become worn, obviously, new heads can be purchased and associated with the handle.

From the foregoing description, it can be seen that I have provided a novel paint brush in which brush heads can be quickly and easily detachably associated with elongated handles in such a manner that the brush heads can be held at selected angles.

Changes in details may be made without departing from the spirit or the scope of this invention, but what I claim as new is:

1. A brush comprising an elongated hollow

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handle having a closure cap at its rear end and its forward end open, a removable brush head including a barrel adapted to snugly fit within the forward end of the handle, a pin rigidly carried by said barrel and projecting beyond the opposite ends thereof for binding engagement with the forward edge of the handle when the barrel is drawn into the handle, the intermediate portion of said barrel being open to expose the central part of said pin, an adjustable rod extending longitudinally of the handle and slidable in said cap, means for adjusting the rod longitudinally of the handle including a nut threaded on the rod engaging the cap, and an open hook carried by the forward end of the rod detachably receiving the exposed central portion of the pin.

2. A brush comprising an elongated handle, a removable and adjustable paint brush head, a bridle clamped to said head having a barrel, a pin rigidly clamped in said barrel extending beyond the opposite ends thereof, the intermediate portion of said barrel being open to expose the central part of said pin, a rod adjustably carried by said handle having an open hook for receiving the central portion of the pin movable into the handle upon adjustment of the rod.

3. The paint brush as set forth in claim 2, and said hook including a shank and a flat bill arranged in parallel relation to one another and in parallel relation to the side walls of the forward end of the handle.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
1,787,970	Bertola	Jan. 6, 1931
1,862,142	Herget	June 7, 1932
2,032,664	Raptis	Mar. 3, 1936
2,348,972	Gray	May 16, 1944

FOREIGN PATENTS

Number	Country	Date
295,010	Great Britain	Apr. 25, 1929