W. McI. RAEBURN.

PAINT BRUSH.

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1,226,368. Patented May 15, 1917.

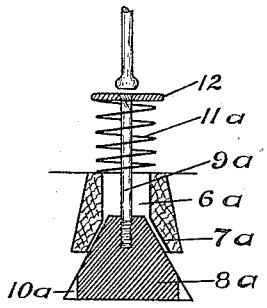


Fig. 2.

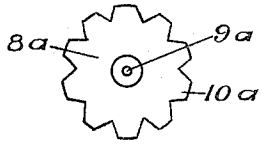


Fig. 3.

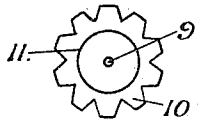


Fig. 4.

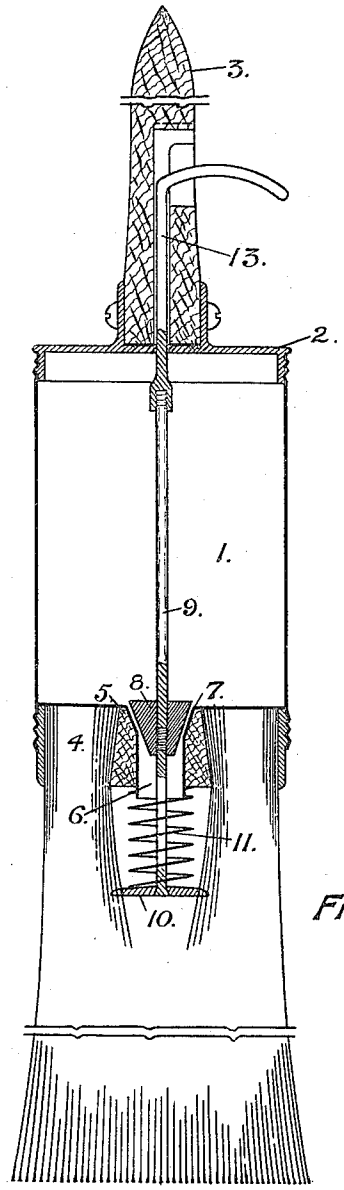


Fig. 1.

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PAINT-BRUSH.

1,226,368. Specification of Letters Patent. Patented May 15, 1917.

Application filed April 4, 1916. Serial No. 88,867.

To all whom it may concern:

Be it known that I, WILLIAM McINTYRE RAEBURN, a subject of the King of Great Britain, resident at Toronto, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Paint-Brushes, of which the following is a specification.

My invention relates to improvements in paint brushes, and more especially to brushes in which a paint container or reservoir is provided.

My invention is particularly useful to scaffold workers and steeple-jacks as it obviates the necessity of carrying a paint pot; and for ordinary work it saves the user from constant stooping in order to dip his brush in the paint and thus, incidentally, it saves any loss of paint between the pot and the work. The user also in working with the brush keeps the paint constantly stirred.

It will be found that if the valve be kept open when the brush is to be used for ceiling or overhead work any paint which would ordinarily run down the brush on to the operator's hand now flows back through the valve into the paint reservoir.

I am well aware that brushes somewhat along the lines of my invention have previously been made, but in those brushes the means for controlling the flow of paint from the reservoir is imperfect and the brush head at times becomes overfull of paint; no means is provided for distributing the paint through the bristles; and specially constructed brush heads are required.

Now in the present invention the valve between the paint reservoir and the brush head which may be arranged either above or below the valve seat, is controlled within certain limits as to its travel by a spring and also by a disk attached to the said spring. When the valve is opened beyond a certain extent the disk above referred to tends to restrict the flow of paint so that the brush head will not be flooded with paint. A distributing disk is arranged in the upper part of the brush head close up under the pipe connecting the reservoir with the said brush head. By means of this disk the paint is evenly distributed throughout all the bristles of the brush. The paint reservoir is so designed that it may be attached to an ordinary brush head: all that is required is a thread or other securing means for attaching it to the reservoir, and the center of the brush head must be bored and provided with a hollow plug, which can always be readily done as it is well known in the art that no bristles are arranged in the center of brushes.

With these and other objects in view my invention consists in certain novel construction and combination of parts hereinafter more fully described with the aid of the accompanying drawings, in which similar parts are similarly designated in all the views, and claimed.

Moreover it is understood that I may make alterations and modifications provided the said alterations and modifications fall within the scope of what I claim.

Figure 1 is a sectional elevation of my brush.

Fig. 2 shows a modified form of my valve arrangement.

Fig. 3 is a plan of the valve shown in Fig. 2; in this case the distributing disk is formed by the underside of the valve.

Fig. 4 is a detail of the distributing disk used in the arrangement shown in Fig. 1.

Now referring more particularly to the drawings, 1 designates a reservoir provided at its upper end with a removable cap 2 which is either screwed on to the said reservoir 1 or held thereon by other suitable means. A handle 3 is rigidly attached to the upper side of the said cap 2.

A brush head 4 is screwed or otherwise secured to the lower end of the reservoir 1. The means employed for fastening the brush head should be one which would permit of the easy removal of the brush, so that another may be quickly substituted when the bristles become worn out.

In the brush head 4 and substantially in the center thereof I provide a hole 5 through which I insert a hollow plug or tube 6.

In the arrangement shown in Fig. 1 a valve seat 7 is arranged on the upper side of the tube 6 on which the valve 8 rests. The said valve 8 is mounted on the connecting rod 9, the lower end of which is secured to the distributing disk 10 which latter is held in its lowest position by means of the spring 11 which is fastened both to the distributing disk 10 and to the lower end of the tube 6.

In the modified arrangement shown in Figs. 3 and 4 the valve seat 7^a is provided

on the underside of the tube 6^a and the valve 8^a is held in position by means of the spring 11^a arranged between the base of the reservoir 1 and the underside of the plate 12. In this form of construction it will be noted that the valve 8^a is secured to the lower end of the connecting rod 9^a and also that the distributing disk 10^a is attached to the underside of and integral with the said valve 8^a.

The connecting rod 9 or 9^a is secured at its upper end to any suitable form of operating arm 13, by means of which the valve 8 or 8^a is opened and the paint allowed to pass into the brush head when it is evenly distributed in all directions among the bristles by the notches in the disk 10 or 10^a.

What I claim as my invention and desire to secure by Letters Patent is:

1. A paint brush comprising a handle, a brush head, a reservoir arranged thereon, a tube in the top of said brush head provided with a valve seat and a valve attached to a connecting rod operated by an arm arranged through the side of said brush handle, in combination with a spring adapted to hold said valve in closed position and a distributing disk at the lower end of said connecting rod.

2. A paint brush comprising a handle, a brush head, a reservoir arranged thereon, a tube in the top of said brush head provided with a valve seat and a valve attached to a connecting rod operated by an arm arranged through the side of said brush handle, in combination with a spring adapted to hold said valve in closed position, a distributing device carried by said connecting rod, and means provided in said handle for retaining the valve in open position so that paint may flow back into the reservoir when the brush is being used for overhead work.

3. A paint brush comprising a handle secured to the upper side of a removable cap, which latter is mounted on a reservoir connected to a brush head by a hollow tube provided with a valve seat, in combination with a connecting rod having an operating arm arranged through the brush handle, a valve mounted on said connecting rod which latter terminates in a notched distributing disk, said valve being held in closed position by means of a spring arranged around said connecting rod, and means provided in said handle for retaining the valve in open position.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."