May 11, 1954 E. TETZLAFF 2,677,841

PAINTBRUSH

Filed Oct. 13, 1950

Fig. 1.

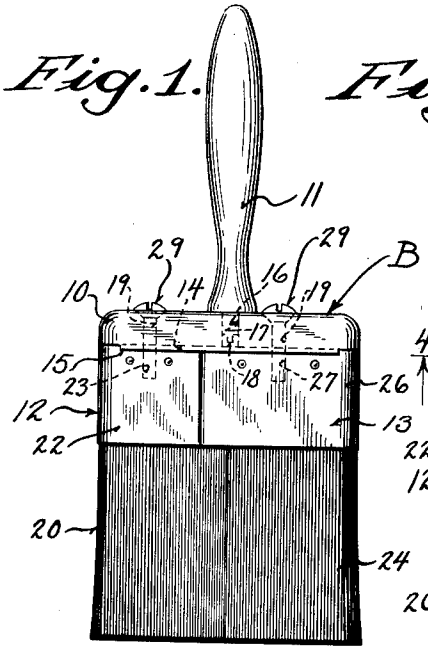



Fig. 2.

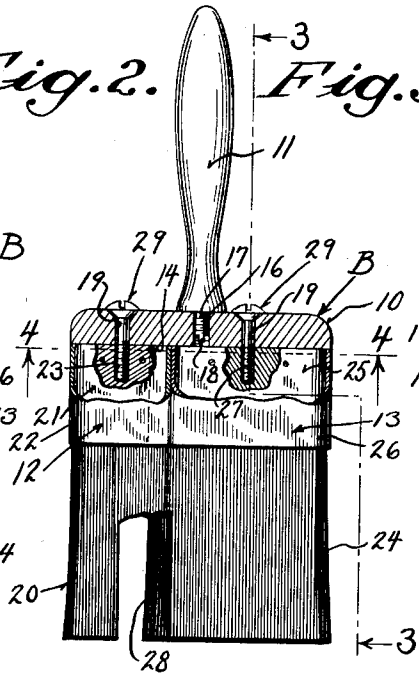



Fig. 3.

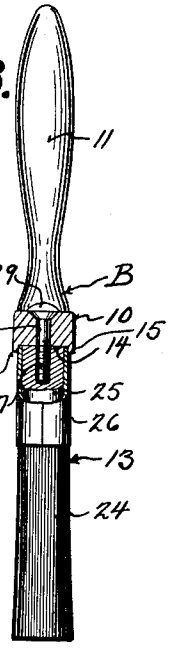



Fig. 5.

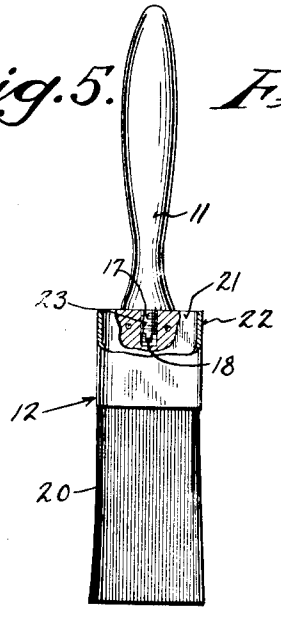



Fig. 6.

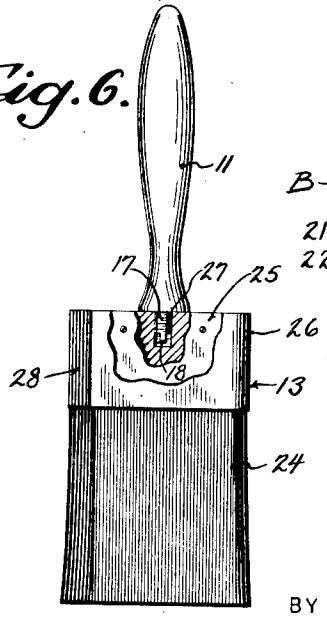
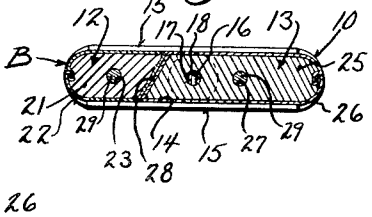



Fig. 4.




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## PAINTBRUSH

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Application October 13, 1950, Serial No. 189,954

2 Claims. (Cl. 15—202)

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This invention appertains to painting and coating and more particularly to a novel paint brush.

In painting, it is customary to provide a series of independent brushes of different sizes for various kinds of work, and obviously, this entails a considerable outlay of money on the part of the painter.

One of the primary objects of my invention is to provide a single paint brush embodying detachable brush sections of various widths with novel means for combining or independently utilizing the sections, so that brushes of a desired width can be readily had at a cost equal to a single wide brush.

Another salient object of my invention, is to provide novel means for forming and combining the brush sections, whereby when the sections are assembled to form a single wide brush, all streaking of the paint will be eliminated, the construction being such that the meeting edges of the sections are obliquely disposed relative to the path of the strokes of the brush.

Another important object of the invention is to provide means whereby the brush bristles of one section will in effect intermingle with the bristles of the adjacent brush section, and thus form a continuous paint applying brush to eliminate all streaking of the paint.

A further object of my invention is to provide means for forming the sections to prevent paint streaking and also to brace the sections, whereby a strong and durable construction will be had.

A further important object of my invention is to provide a combination brush embodying a single handle and a plurality of brush sections, with means whereby the handle can be connected to any one brush section or to the brush head when the sections are combined therewith.

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 front elevational view of my complete brush;

Figure 2 is a view similar to Figure 1, with parts thereof broken away and in section to illustrate structural detail;

Figure 3 is an end elevational view of the complete brush with parts thereof in section, the section being indicated on the line 3—3 of Figure 2, looking in the direction of the arrows;

Figure 4 is a transverse sectional view taken

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on the line 4—4 of Figure 2, looking in the direction of the arrows, illustrating the novel formation of the brush sections;

Figure 5 is a front elevational view showing one section removed from the brush head and the handle of the brush head associated therewith to form a relatively narrow painting brush, parts of the view being shown broken away and in section; and

Figure 6 is a front elevational view, showing the handle associated with the wider brush section, parts of this view being also shown broken away and in section.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter B generally indicates my improved paint brush and the same includes a brush head or holder 10 having detachably associated therewith a handle 11 and brush sections 12 and 13, preferably, and as shown, of different widths.

The brush head 10 can be formed from any suitable material such as plastic or wood, and is provided on its lower or forward face, with a seat 14 for receiving the inner ends of the brush sections 12 and 13. This seat can be formed by providing spaced flanges 15, which extend longitudinally of the head. These flanges receive the inner ends of the brush sections 12 and 13 therebetween and prevent lateral shifting of the sections. Formed centrally in the head 10 is an internally threaded socket 16, the purpose of which will later appear.

The handle 11 can also be formed from any desired material and is shaped to provide a convenient hand grip. The forward end of the handle has formed thereon or secured thereto a threaded shank 17 and the extreme forward end of the shank is provided with a screw driver bit 18. The shank 17 is threaded into the socket 16 to permit the free association of the handle 11 with the head 10 when the sections 12 and 13 are associated with said head and the head 10 on each side of the threaded socket 16 is provided with a countersunk bore 19.

The sections 12 and 13 are constructed identically the same, with the exception that the section 12 is of a narrower width than the section 13. Thus, the section 12, includes the desired number of brush bristles or tufts 20 having their inner ends thoroughly embedded and set in a suitable plastic or hard rubber back 21. The back 21 is reinforced by a metal ferrule or bridle 22. Formed in the back 21 is an internally

threaded socket 23 of the same diameter as the socket 16.

As set out above, the section 13 is constructed the same as the section 12, with the exception that the same is of a greater width than the section 12. Hence, the section 13 also includes the desired number of bristles or tufts 24 set in a suitable plastic or rubber back 25 and the back and bristles are reinforced by a metal ferrule or bridle 26. The central portion of the back 25 is provided with an internally threaded socket 27 of the same diameter as the sockets 23 and 16.

Particular attention is now invited to Figures 2, 4 and 6, and it can be seen that the meeting longitudinal edges of the sections 12 and 13 are formed in a novel manner so that the brush bristles of one section will over-lap the brush bristles of an adjacent section, when the sections are assembled together to prevent streaking of the paint as the same is applied to a surface. Thus, the meeting edges of the sections 12 and 13 are arranged at an angle relative to the transverse center of the head 10, as indicated by the reference character 28. The backs 21 and 25 of the brush sections are molded in this shape and the metal ferrules 22 and 26 conform to this shape and the meeting bristles of the brush sections are obliquely disposed relative to the path of the brush strokes, and hence certain of the leading bristles of the section 12 are in advance of the trailing bristles of the section 13. Obviously, however, the brush bristles or sections could be angled in the opposite directions. These sections snugly contact one another and the angularity of these meeting edges form a brace so as to prevent twisting of the sections relative to one another.

When it is desired to provide a wide paint brush, the sections 12 and 13 are placed in the head 10 between the flanges 15, and screws 29 are placed in the bores 19 and threaded in the sockets 23 and 27 of the brush sections. The screws are drawn tight so that the brush sections will be pulled into intimate contact with the head 10. The screw driver bit 18 on the handle 11 forms a convenient tool for turning the screws. This will form a wide brush which will function exactly in the same manner as a wide brush wherein the bristles are all molded in a single back, and all streaking of the paint is eliminated.

When it is desired to use a relatively narrow brush, the handle 11 is removed from the head 10 and the screw, 19 for the section 12 is unthreaded from the section and this section is removed from the head. The handle 11 is now threaded in the socket 21, as best shown in Figure 5 and a complete narrow brush is had.



When it is desired to employ an intermediate width brush, the section 13 is removed from the head 10 and the handle 11 is threaded into the socket 27 of the section 13 and a complete brush will be had.

From the foregoing description, it can be seen that I have provided a novel and simple combination brush in which various sizes of brush widths can be readily had at the option of a painter.

As illustrated, the brush section 12 can be a 1½" width, the brush section 13, 2½" width and the complete, assembled brush 4" wide. These are the preferred sizes of brushes, but, obviously, the brush sections of the complete brush can be of any desired width and any number of brush sections can be employed with the head 10.

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 combination brush comprising a head having a centrally disposed internally threaded socket and bores on each side of the socket, brush sections detachably fitted in said head having internally threaded sockets in alignment with said bores and of the same diameter as the internally threaded socket of the head, screws extending through the bores in the head and into the sockets of the sections, and a handle having a threaded shank receivable in the socket of the head or the sockets of the sections when the sections are detached from the head.

2. In a combination brush, a handle for said brush, a coupling member on said handle, a brush holder having separable complemental engaging means with said coupling member on said brush handle, brush sections connected to said holder by complemental, separable connecting means on said holder and sections, said connecting means including coupling means on said sections for detachable connection to said brush holder and to said handle whereby a single handle may be employed with a single section or coupled to the brush holder to which the sections are interchangeably connected.


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