

July 21, 1942.

W. A. RINGLER

2,290,359

BRUSH RETAINER

Filed July 5, 1940

FIG. 1.

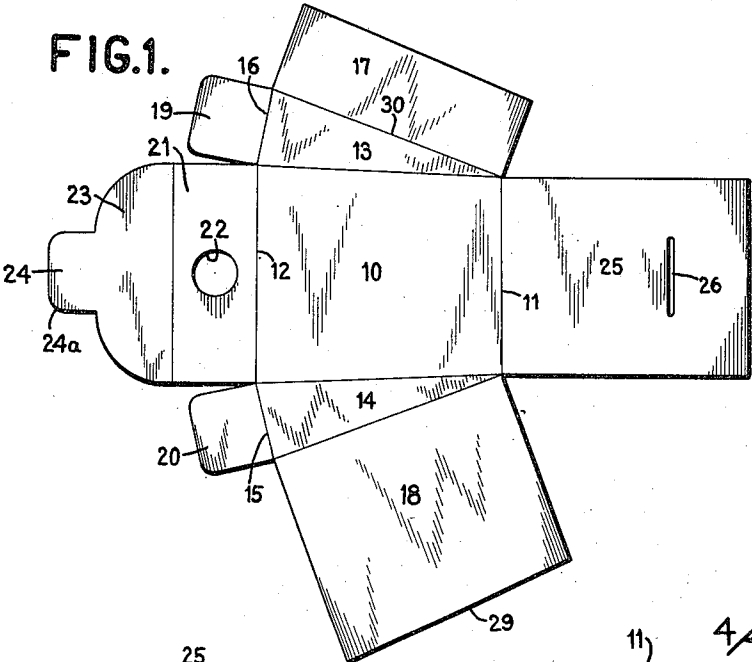


FIG. 2.

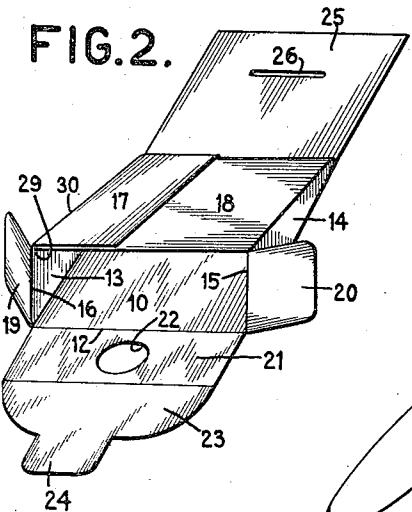


FIG. 3.

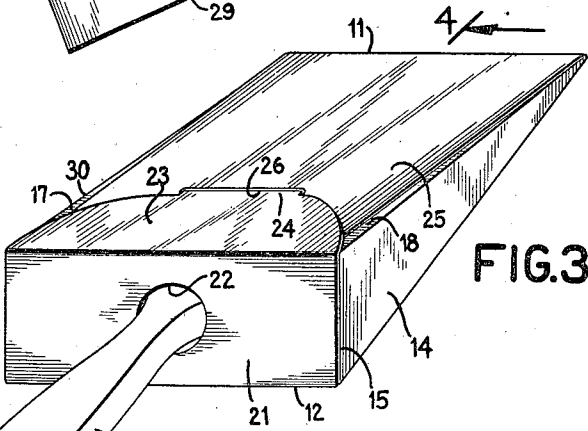
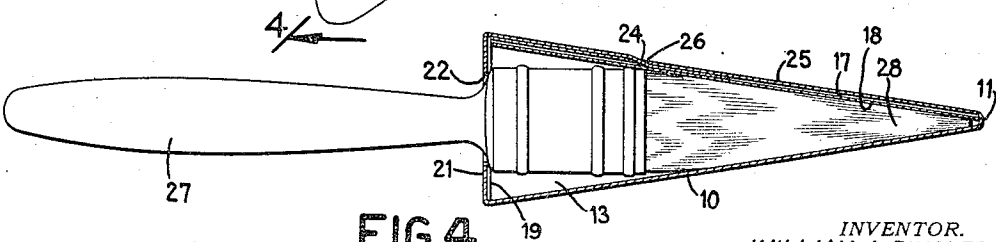


FIG. 4.



INVENTOR.
WILLIAM A. RINGLER

BY

H. C. Mendenhall
ATTORNEY.

UNITED STATES PATENT OFFICE

2,290,359

BRUSH RETAINER

William A. Ringler, Wayne, Pa., assignor to Rubberset Company, Newark, N. J., a corporation of New Jersey

Application July 5, 1940, Serial No. 343,973

3 Claims. (Cl. 206—15.1)

This invention relates to improvements in folders or retainers adapted to enclose the main body and bristle portion of a brush.

Wrappers or retainers of various types have been devised heretofore for use on paint brushes or the like but these have all been subject to one or more of a number of objections. It has been a primary purpose of the present invention to overcome all of these objections and to provide a brush retainer which is simple and inexpensive to produce, is easy to apply to and remove from a brush, and is adapted to retain the brush in the best possible condition in the course of shipment and handling. The improved retainer may also be used advantageously for keeping the brush in condition for reuse after it has been put into service. Its construction is sturdy and such as to substantially exclude the access or movement of air around the bristles which would have a tendency to cause the bristle body to become stiff after the brush has once been used.

The improved retainer is preferably formed of relatively stiff cardboard or pasteboard or the like and is creased or scored or otherwise formed to facilitate folding along desired lines. A feature of the present invention is the formation of the retainer blank in such a way that when properly folded around the body and bristles of a brush it will form a sturdy enclosure which will not become distorted upon relatively rough handling. Toward this end there is provided a pair of panels of substantially the same dimensions one of which is arranged to be disposed against each face of the body and bristle portion of the brush. Thus, a panel extending completely across the retainer is provided at both front and back.

A further feature of the invention is the provision of very simple but effective means for fastening or retaining the folder in position around the brush body. The arrangement is such that two portions of the assembled folder may be readily slipped into and out of interlocking engagement to retain or release the folder. No separate fastening means is required.

Other features and advantages of the invention will appear from a detailed description of an illustrative embodiment of the same which will now be given in conjunction with the accompanying drawing, in which:

Fig. 1 is a face view of the inner side of a blank constituting an embodiment of the improved folder.

Fig. 2 is an isometric view of the folder in partially folded condition, without the brush.

Fig. 3 is an isometric view of the folder as completely assembled around a brush, and

Fig. 4 is a longitudinal sectional view along the line 4—4 of Figure 3.

Referring now to the drawing, the blank constituting the improved retainer and which is adapted to be appropriately folded to enclose the bristle body of a paint brush is preferably formed of pasteboard or cardboard or the like and is preferably appropriately scored or creased to facilitate folding along the desired lines. The scoring or creasing serves to divide the blank into panels or sections and various extensions. Thus, the blank has a main central panel or section 10 which may, if desired, be rectangular in form, although it is preferably constructed in the form of a trapezoid with its lower edge 11 slightly shorter than its upper edge 12.

Extending from one of the side edges of the main panel 10 there is a triangular side panel 13 while from the opposite side of the main panel there extends a similar triangular panel 14. The two side panels are preferably isosceles triangles with their bases, forming the edges 15 and 16, inclined slightly with respect to the edge 12 of the main panel. Another panel 17, formed as an extension of the side panel 13, is preferably of substantially rectangular form while a larger panel 18, formed as an extension of the side panel 14, is preferably of substantially the same form and dimensions as the main panel 10. This, as will be explained, enables the panel or extension 18 to completely overlie the panel 10 when the folder is assembled around a brush. At the wide end of side panel 13 there is formed, as a foldable extension, a small tab 19. A similar tab 20 is provided at the wide end of side panel 14. The tabs 19 and 20 are each of a length somewhat less than half the length of the edge 12 of the main panel.

Attached to the main panel at the edge 12 is an end panel 21 having a cut-out portion or aperture 22 at an intermediate point. The main part of the panel 21 is of a width equal to the length of the edge 12 and is of a length equal to slightly more than the length of the edges 15 and 16 of the side panels. An extension 23 of the end panel is adapted to be bent or folded at right angles to the main portion of the end panel. This extension is provided with a tab 24 of reduced width having rounded outer corners, as indicated at 24a. Secured to the main panel along its shorter edge 11 is another end panel

25 which is preferably substantially rectangular in form. The length of this panel is preferably, though not necessarily, about the same as the length of the main panel 10. A slot or elongated opening 26 is provided transversely of the panel 25 at an appropriate point, this being of a length sufficient to receive the tab 24, in the manner to be explained.

In the use of the folder and its assembly about a brush, the handle 27 of the brush is passed through the aperture 22 in the end panel 21 and the bristle body 28 of the brush is placed upon the main panel 10. Said panels 13 and 14 are then folded upwardly at right angles to the main panel and the extension 18 is folded over the bristle body. Next, the extension 17 is folded over the extension 18 and the two tabs 19 and 20 are folded inwardly over the shoulders formed at the base of the handle of the brush. End panel 25 is now folded upwardly about the edge 11 and laid flat against the extensions 17 and 18. End panel 21 is then folded upwardly at right angles to the main panel and the extension 23 of this upper end panel is bent downwardly over the end panel 25. The tab 24 is now passed through the slot 26 in the end panel 25 and the assembly of the retainer about the brush is thus completed.

In forming the extension 18 of a length equal to the width of the main panel 10 and folding this extension beneath the extension 17, in the manner explained, a sturdy construction is provided which will resist deformation in response to lateral pressure upon the assembled retainer. This is due to the fact that the edge 29 of the extension 18 abuts against the corner provided at the edge 30 between side panel 13 and extension 17.

It will be understood, of course, that numerous variations may be made in the specific form and construction of the various elements of the folder. The size and shape of the several panels and extensions may be varied somewhat without departing from the principles of the invention. The folder may, obviously, be accommodated to brushes of different shapes and dimensions. Tabs 19 and 20 should be of such length and form as not to interfere with or close the aperture 22. If desired, the side panels 13 and 14 might be made trapezoidal rather than triangular in form. However, if the retainer is formed of sufficient length, so that the bristles of the brush need not extend fully to the lower end, adequate room for the bristles will be provided within the retainer by the simpler triangular side panel construction. This construction, furthermore, provides for a more effective closure at the lower end of the assembled retainer.

The terms and expressions employed herein have been used as terms of description and not of limitation.

What I claim is:

1. A paint brush package comprising a brush having a bristle portion and a handle provided with an elongated gripping portion and a shouldered portion at the base of said gripping portion, and a wedge-shaped retainer for said bristle portion and said shouldered portion of the brush, said retainer consisting of a single, integral member in the form of a folded blank having a main panel adjacent the back face of said bristle portion, a pair of side panels tapering inwardly from top to bottom thereof disposed at the sides of said bristle portion and connected with the edges of said main panel, tabs at the top

of said side panels and coextensive widthwise thereof, said tabs being folded over said shouldered portion of the handle, a wide panel connected with one of said side panels having substantially the width of said main panel and overlying the front face of said bristle portion, a narrow panel connected with the other of said side panels and overlying said wide panel, and end members, one connected to each end of said main panel, having portions overlying said wide and narrow panels at the front of said bristle portion, one of said end members having a tongue engaged with and frictionally held by a transversely extending slot in the other of said end members, the end member at the upper end of said main panel having a substantially circular opening aligned with the longitudinal axis of said brush and through which said gripping portion of said handle extends.

2. A brush retainer which consists of a single, integral, foldable blank having a main panel adapted to overlie one face of a brush, a pair of side panels tapering inwardly from top to bottom thereof connected with the edges of said main panel, tabs at the wide ends of said side panels and co-extensive widthwise thereof adapted to be folded inwardly toward the longitudinal center line of said main panel, substantially rectangular panels secured to the edges of said side panels and adapted to be folded over in face contacting relation to form with said main panel a wedge-shaped pocket, one of said last-mentioned panels being substantially co-extensive with said main panel, and end panels attached to the opposite ends of said main panel, each having a portion adapted to be folded over against said contacting rectangular panels, said end panels having interengaging tongue and slot means adapted to frictionally hold the retainer in assembled relation, the panel attached to the upper end of said main panel having a substantially circular opening therein aligned with the longitudinal axis of said pocket and through which the handle of a brush is adapted to extend, the free ends of said tabs on said side panels being clear of said opening when the retainer is assembled.

3. A brush retainer which consists of a single, integral, foldable blank having a main panel adapted to overlie one face of a brush, a pair of side panels tapering inwardly from top to bottom thereof connected with the edges of said main panel, tabs at the wide ends of said side panels and co-extensive widthwise thereof adapted to be folded inwardly toward the longitudinal center line of said main panel, substantially rectangular panels secured to the edges of said side panels and adapted to be folded over in face contacting relation to form with said main panel a wedge-shaped pocket, said rectangular panels overlapping to a substantial extent when so folded, and end panels attached to the opposite ends of said main panel, each having a portion adapted to be folded over against said contacting rectangular panels, said end panels having interengaging tongue and slot means adapted to frictionally hold the retainer in assembled relation, the panel attached to the upper end of said main panel having a substantially circular opening therein aligned with the longitudinal axis of said pocket and through which the handle of a brush is adapted to extend, said tabs on said side panels being clear of said opening when the retainer is assembled.

WILLIAM A. RINGLER.