

H. B. WILLIAMS.
PAINT BRUSH.

APPLICATION FILED MAY 27, 1911.

1,037,698.

Patented Sept. 3, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

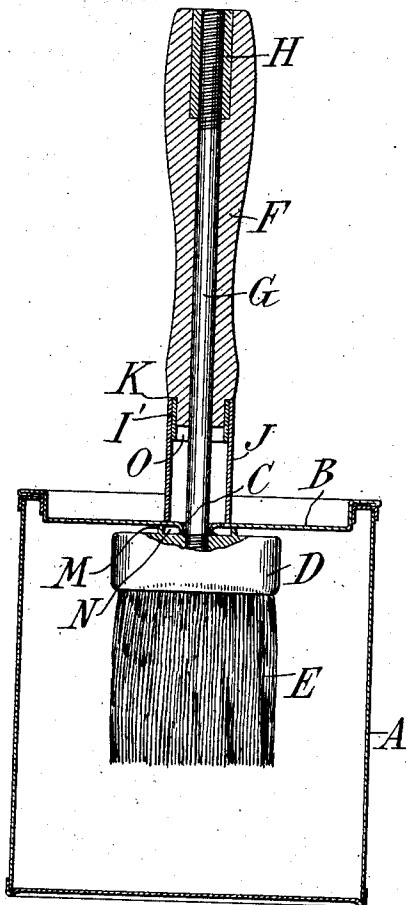
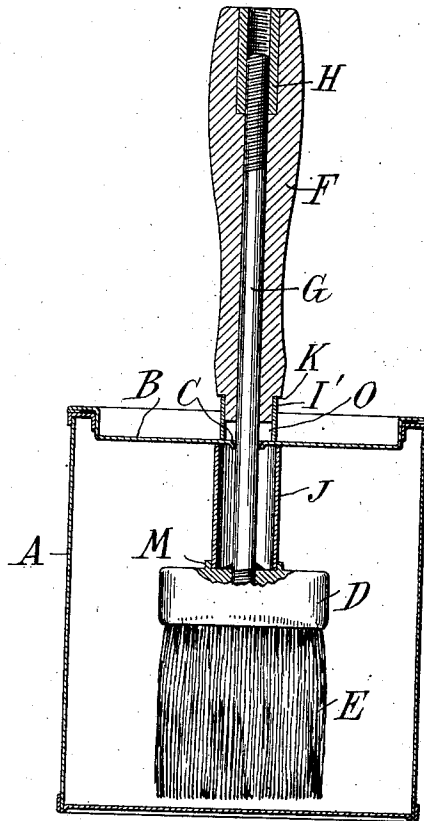


Fig. 2.



WITNESSES:

Rene' Guine
Fred White

INVENTOR :

Harry B. Williams,

By Attorneys,

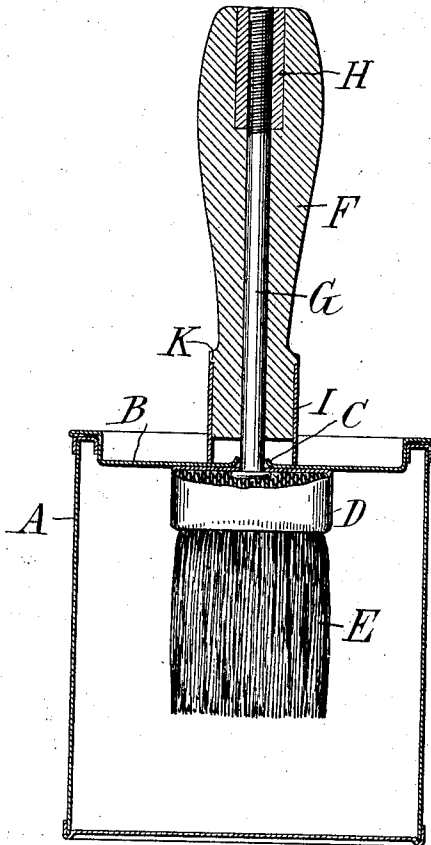
Fraser, Currier & Myers

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2 SHEETS—SHEET 2.

Fig. 3.



WITNESSES:
Rene Guine
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UNITED STATES PATENT OFFICE.

HARRY B. WILLIAMS, OF SARANAC LAKE, NEW YORK.

PAINT-BRUSH.

1,037,698.

Specification of Letters Patent.

Patented Sept. 3, 1912.

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To all whom it may concern:

Be it known that I, HARRY B. WILLIAMS, a citizen of the United States, residing at Saranac Lake, in the county of Franklin and State of New York, have invented certain new and useful Improvements in Paint-Brushes, of which the following is a specification.

This invention relates to means for pre-serving paint brushes or the like, and aims to provide certain improvements therein.

Paints, stains, varnishes, etc., are now largely sold in friction top cans, the contents of which are not ordinarily completely used up at one time. The friction top can cover serves as a ready means for substantially sealing the can when its contents are not in use. It is very desirable that the brushes used to apply the paint or stain should be kept immersed in the contents of the can when not in use, so that they will not harden or become stiff. Various attempts have been made to provide a cheap and simple means for accomplishing this result while the friction cover is on the can. Such means have either been unsatisfactory or cumbersome and complicated.

It is the object of the present invention to provide a simple and cheap construction for accomplishing this result. To this end in the preferred form of my invention I construct the brush in two parts, a head portion carrying bristles and an elongated handle portion. The head portion is preferably provided with an elongated shank which is preferably rigidly fixed to the head portion and extends upwardly through the handle a considerable distance toward the outer end of the handle. Connecting means are provided between the handle and shank, the simplest form being a screw-threaded connection. The brush is especially adapted to be used in connection with friction top covers, the shank being inserted through a hole in the cover. For this purpose it is desirable that the shank be of small diameter in order that it may pass through a relatively small hole in the cover such as may be made by a nail or the like. Preferably the head of the brush and handle are so formed as to provide a recess or recesses into which the bur of metal formed during the

perforation of the cover is received so that a tight and rigid joint between the cover and brush may be obtained.

My invention also provides a means by which the relative position of the cover with relation to the bristles may be changed so that the latter may extend downwardly a greater or less degree as is rendered desirable by the level of the paint in the can. Ordinarily the cover may be permitted to remain connected with the brush when the latter is in use, so that it is only necessary to adjust the cover upon the can when the user has completed the work.

The brush has a special combination with a can of the friction top type since the projecting handle serves as a lever or handle for adjusting the cover in place or removing the same. In friction covers considerable force must sometimes be applied to remove the cover or press it down, and the handle extending at right angles thereto serves as a very convenient means for so manipulating the cover.

The invention includes other features of construction which will be hereinafter pointed out in detail.

Referring to the drawings which illustrate the preferred form of the invention,—Figure 1 is a central vertical section of a friction top can showing the brush in place. Fig. 2 is a similar view illustrating the brush adjusted in a different position. Fig. 3 is a similar view illustrating a simplified form.

Referring to the drawings A indicates a can of the ordinary friction top type having a cover B. Numerous constructions of can of this type are known and I have illustrated the present construction as one of the simplest forms. When the can is sold the cover B is imperforate, but it is only necessary for the user to perforate it by the use of a nail or the like in order to fit it for the present invention. The perforation may be made either before or after the cover is removed from the can, but in any event a bur C will be formed extending either upwardly or downwardly, depending upon the direction in which the perforation is made.

The brush provided by the present inven-

tion comprises a head D bearing bristles E and a handle F adapted to receive the cover B between them. In most cases it is desirable that when the cover is adjusted in place between the parts of the handle it shall occupy a position relatively close to the head D, although as will be hereinafter pointed out this position may be varied. The purpose of this is to provide that substantially the entire handle shall extend outwardly of the cover in order that the user may have an adequate grasping portion with which to manipulate the brush. Furthermore, cans of this type are usually relatively shallow and for a given size of brush there is not room within the can to accommodate any extended portion of the handle.

An important feature of the invention is the provision of a slender shank G which is fixed to the head D and extends through the hole formed in the cover up into a bore formed in the handle. The shank G may be firmly secured in the head so that the joint between the two is stiff and rigid while the elongated bearing which the shank has in the handle also secures a very stiff and rigid connection between the handle and head. Preferably the shank extends practically through the handle to its upper end and screws into a bushing H located in the upper end of the handle.

The handle may directly engage the top of the can or may be provided with a lower ferrule I as shown in Fig. 3, but I prefer to introduce between the handle and the cover a short sleeve J (Figs. 1 and 2). This sleeve J fits over a bushing I' when the parts are in the position of Fig. 1 and at its lower end contacts with the cover of the can. The handle is preferably provided with a shoulder K against which the upper end of the sleeve bears. When the level of the paint or other liquid in the can is high, the sleeve would be adjusted between the handle and the cover as in Fig. 1; while when the liquid is low the sleeve would be interposed between the head and the cover as shown in Fig. 2.

In any of the forms shown it is preferable that a recess be left in one or both of the parts which contact with the can cover in order to receive the bur C so that the latter does not interfere with the rigid connection between the parts, and is not itself flattened out to render it difficult to withdraw or insert the handle. To this end the head of the brush is preferably provided with an annular raised portion or flange M which incloses within it a recess N for the reception of the bur when the latter is extended downwardly as is usually the case. For the same purpose the bushing I is extended slightly beyond the handle to provide a recess O, and the sleeve J is of suffi-

cient diameter to provide a similar recess. These latter constructions are useful when the bur of the cover is directed upwardly.

It will be seen that by my invention I provide an extremely cheap and simple construction which is especially applicable to the ordinary friction top can, and in which the bristles of the brush may be easily and conveniently held on the under side of the cover of the can while its handle portion extends on the outside of the latter. It will also be seen that in use the cover may be left in place between the handle and head of the brush and that it becomes necessary only to replace the cover when the work is completed. It will also be seen that the position of the brush may be varied within the can in order to correspond with the varying depths of liquid therein. If a more minute adjustment than that shown is desired, the sleeve J may be made in several sections or altered in proportions as desired. Furthermore, it will be observed that the invention is peculiarly adapted to cans of the type described, since the handle of the brush is very conveniently utilized as a handle for the can cover so that the latter may be removed and replaced without the aid of an extra tool and without soiling the hands of the user. The cover also serves as a guard for the brush in overhead work, so that drippings from the latter do not reach the handle. When the cover is adjusted in position, it is practically as air-tight as though it were unperforated since the portions of the brush fit tightly against the cover surrounding the aperture.

While I have shown in detail several embodiments of the invention, it will be understood that various changes may be made therein without departing from the invention.

What I claim is:—

1. A brush adapted for use with a can cover, comprising a handle, a head, and an intermediate section, said handle and head having connecting means for uniting them, said parts adapted to admit such can cover between either said head or handle and said intermediate section, whereby the brush may be connected to the can cover at a plurality of levels.

2. A brush adapted for use with a can cover, comprising a handle, a head, and an intermediate sleeve, said parts adapted to receive such can cover between the head and sleeve or the sleeve and handle, and a rod for connecting said handle, sleeve and head together.

3. A brush adapted for use with a can cover having a hole punched through it, said brush comprising a handle, a head and an intermediate sleeve, said parts adapted

to receive such can cover between the head
and sleeve or the sleeve and handle, one
of said parts having a recess adapted to
receive a bur upon such can cover where
5 such hole is made, and a rod for connect-
ing said handle, sleeve and head together.
In witness whereof, I have hereunto

signed my name in the presence of two sub-
scribing witnesses.

HARRY B. WILLIAMS.

Witnesses:

MAUDE J. COREY,
CHARLES S. THURSTON.

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