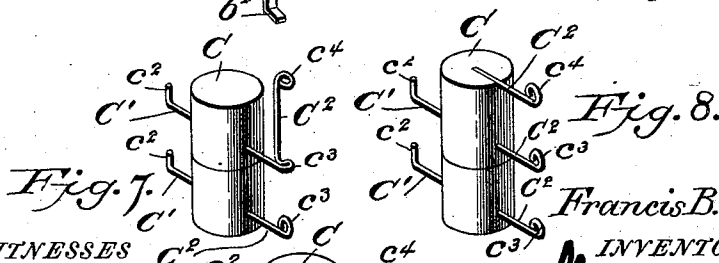
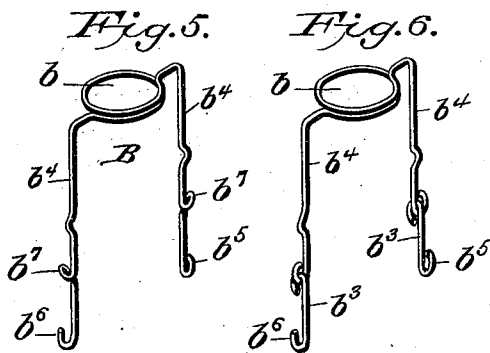
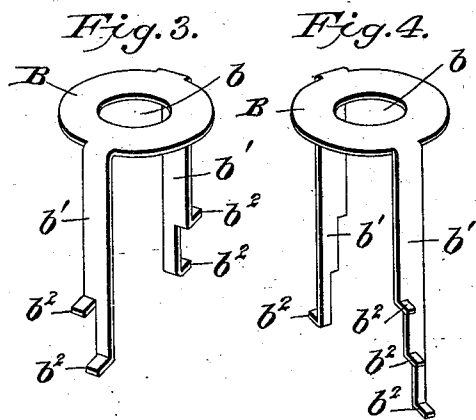
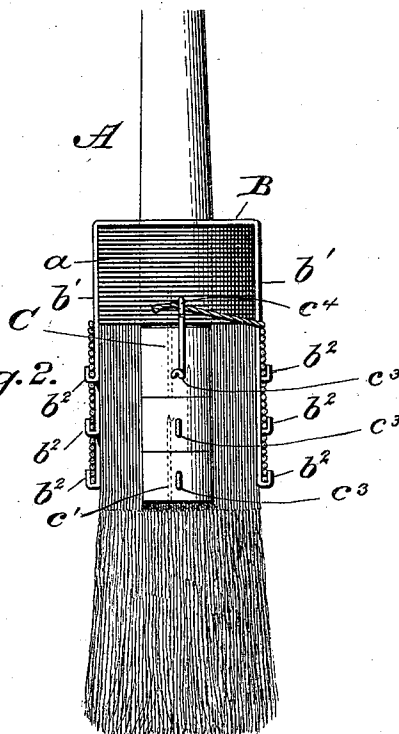
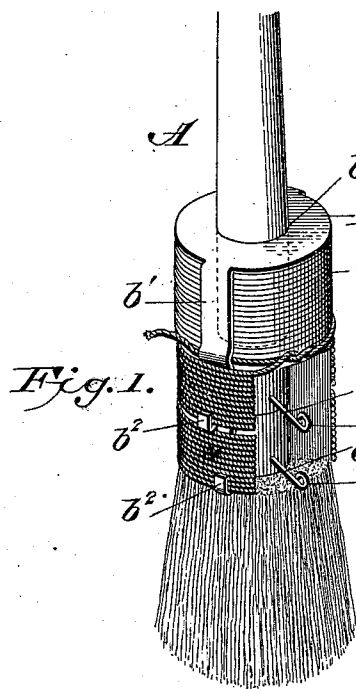


(No Model.)

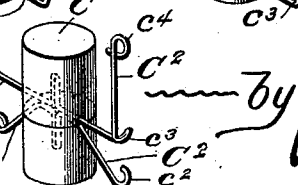
F. B. HARVEY.
BRIDLE FOR PAINT BRUSHES.

No. 550,170.

Patented Nov. 19, 1895.



WITNESSES
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UNITED STATES PATENT OFFICE.

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BRIDLE FOR PAINT-BRUSHES.

SPECIFICATION forming part of Letters Patent No. 550,170, dated November 19, 1895.

Application filed August 10, 1895. Serial No. 558,890. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS B. HARVEY, a citizen of the United States of America, residing at Glen Moore, in the county of Chester and State of Pennsylvania, have invented certain new and useful Improvements in Bridles for Paint-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of the specification.

The object of this invention is to provide an improved attachment for paint-brushes by means of which two or more wrappings may be employed to form the bridle, so that when the bristles wear down the lower section or wrapping of the bridle may be removed without disturbing the section or sections above.

The invention also has in view to provide in connection with such a bridle separable plugs having means for retaining the wrappings upon the brush, all as will be herein-after fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view, partly in section, showing my improvements applied. Fig. 2 is a similar view showing an attachment with three projecting portions and the bridle made up of three wrappings, the plug being also made up of three sections having parts with which the wrappings engage. Figs. 3 and 4 are detail perspective views of the exterior bridle-holder made from sheet metal. Figs. 5 and 6 are perspective views of the exterior bridle-holder made of wire, and Figs. 7, 8, and 9 are perspective views of modifications of the arms carried by the separable plug.

A designates a paint-brush of ordinary construction which is provided with the usual wire wrapping *a* that secures the bristles to the handle.

The bristles of paint-brushes are usually of greater length than required, and it is the practice of painters to bridle the bristles by the use of twine, and before the twine is put on they usually cut a plug or cork and place

it within the brush against the end of the handle.

My invention is designed to provide an improved bridle and means for attaching the same to the brush.

In carrying out my invention I provide an exterior bridle-holder B, which has a central opening *b*, through which the handle of the brush is passed so that the holder will rest against the shoulder formed by the upper ends of the bristles. The bridle-holder B is provided with downwardly-extending members *b'*, having two or more outwardly-projecting portions *b''*, with which the string-bridles are adapted to engage.

In Figs. 1, 2, 3, and 4 of the drawings I have shown the exterior bridle-holder made up from a plate of sheet metal, and the downwardly-extending members *b'* are formed at intermediate portions with steps, the lower ends being bent outwardly to provide portions with which the lower wrapping or string-bridle will engage. In Figs. 1 and 3 two outwardly-projecting portions are shown, and in Figs. 2 and 4 I have shown three to each member.

In Figs. 5 and 6 the exterior bridle-holder B is shown as made of wire bent in proper shape to provide means for retaining the string-bridles, one of the side members *b''* having two or more projecting portions *b'''* formed thereon, while the other side member terminates in a hook *b'''*, and above said hook the wire is bent into an eye *b''''*, which is turned up to form a hook.

In Fig. 6 the exterior bridle-holder is made with detachable links *b'''*, secured to eyes formed at the terminals of the side members *b''*, one of the links having an eye at its free end and at the other a hook. These links are readily removable from the side members.

C designates the plug, which I make up of two or more sections lightly or loosely connected to each other by means of pins *c'*, as indicated in dotted lines, Fig. 2, and the sections of the plug carry projecting arms *C'*, *C''*, and *C'''*, the ends of the arms *C'* being formed into a hook *c''*, while the ends of the arms *C''* are formed into eyes *c'''* and *c''''*, the eye *c'''* being for the purpose of securing the ends of the upper string-bridle. This plug may

be used independent of the exterior bridle-holder; but in practice I prefer to use it with said holder, placing the same within the brush so that the arms C^1 and C^2 will be at right angles with the members of the bridle-holder.

In connection with the attachments hereinbefore described I use several string-bridles, and in attaching them to the brush the plug is first placed within the bristles and the exterior bridle-holder placed in position so that the arms of the plug will be at right angles with the members of said holder. One of the strings is then passed through the lower eye c^3 of the plug and around the bristles, so as to engage with the lower projecting portions of the exterior bridle-holder and with the lower hook of the plug, after which the string is wrapped a number of times around the bristles, the ends being tied in a single knot and passed up so as to be wrapped under the next string-bridle, which is applied similar to the first. The ends of the string forming the last or upper bridle are tied in a single knot and then passed under the side members of the exterior bridle-holder, as shown in Fig. 1, or through the eye at the end of the arm C^2 , as shown in Fig. 2, the eye being flattened down upon the cord to hold the same. After the brush has become worn the lower bridle or string can be removed by cutting it at the knot, the free ends of the side members of the exterior bridle-holder being bent back, broken off, or removed, and the lower section of the plug also removed. The modification shown in Fig. 6 provides for removing the free ends from the side members of the exterior bridle-holder.

The modification shown in Fig. 9 is similar in construction to that shown in Fig. 7. The arms C^3 C^4 instead of being passed through the plug are let into recesses, and the arms of the lower section of the plug are bent downwardly to bring the eye and hook in the same position, as shown in Figs. 7 and 8.

The device hereinbefore described is simple and effective, can be cheaply manufactured and sold independent of the brush, or the brush may be supplied to the trade with the attachments applied thereto.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, an exterior bridle holder for paint brushes having formed integral therewith a plurality of projecting portions and independent string bridles for engagement with the projecting portions, substantially as shown and for the purpose set forth.

2. In combination with a paint brush, of an exterior bridle holder having side members with projecting portions and string bridles adapted to engage with the projecting portions, together with a plug made up of several sections connected to each other by pins and provided with projecting arms with which the string bridles engage.

3. In a paint brush, the combination, of a plug, cord bridles and an exterior bridle holder having projections with which the cord bridles engage, substantially as shown and for the purpose set forth.

4. In combination with a paint brush, an exterior bridle holder made up of a single piece presenting an opening through which the handle of the brush passes and depending members with outwardly-projecting portions, together with a plug made up of sections each having outwardly-projecting arms, and cord bridles adapted to engage with the outwardly-projecting portions of the exterior bridle holders and with the arms of the plug, substantially as shown and for the purpose set forth.

5. A plug for paint brushes having laterally projecting arms with hook portions and a member which extends substantially parallel with the side of the plug and terminates in an eye, substantially as shown and for the purpose set forth.

6. A separable plug for paint brushes each section having connected therewith laterally projecting arms with which the string bridles are adapted to engage, the arms projecting beyond the sides of the plug and terminating in hooks and eyes, substantially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS B. HARVEY.

Witnesses:

HOWARD STEWART,
JOS. H. JOHNSON.