

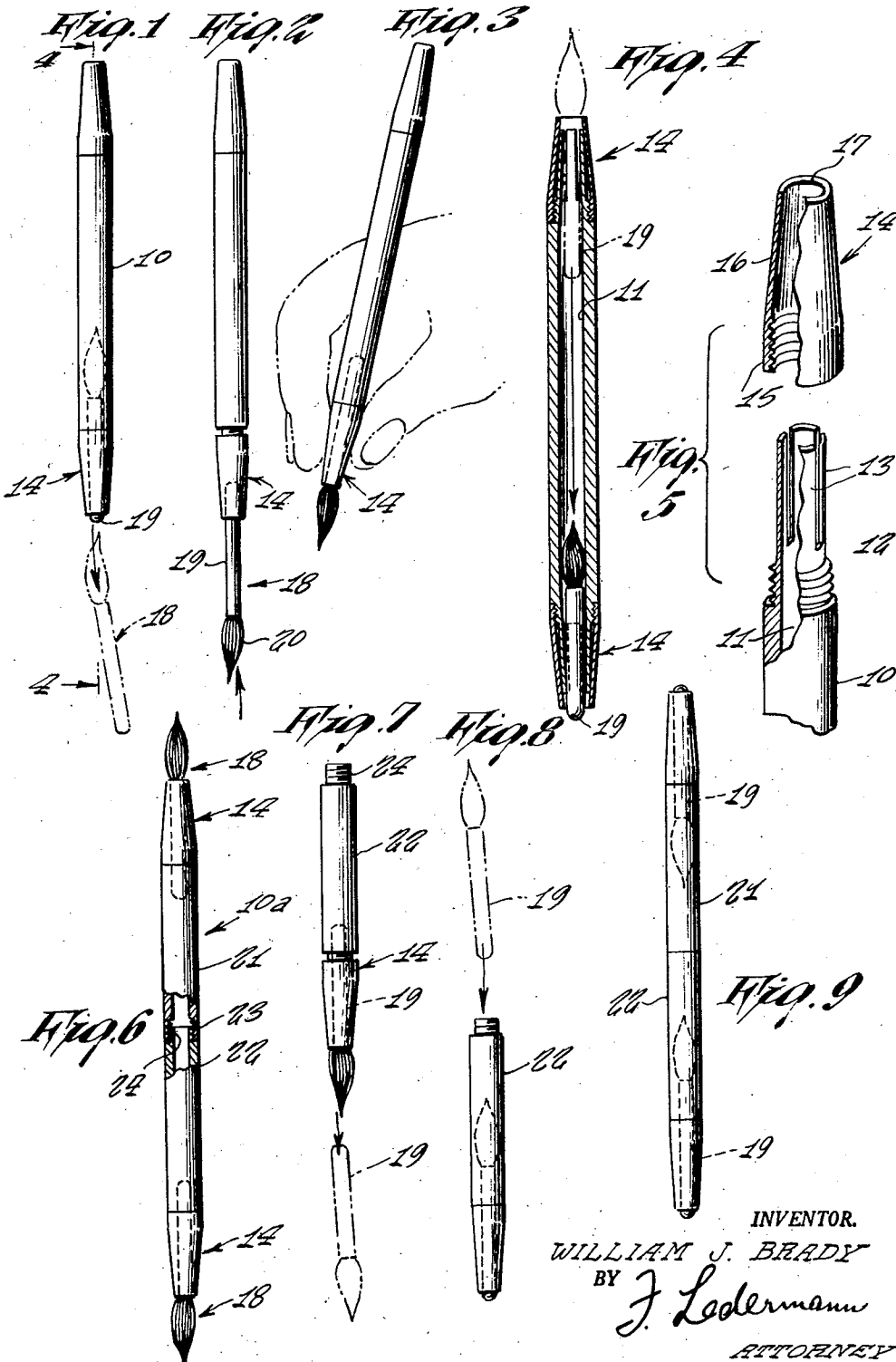
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BRUSH AND BRUSH HOLDER COMBINATION

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BRUSH AND BRUSH HOLDER COMBINATION

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2 Claims. (Cl. 15—184)

This invention relates to brush and brush holder combinations, with particular reference to water color brushes, and is a continuation in part of the instant inventor's pending application Serial No. 384,469, filed October 6, 1953.

The main object of the present invention is the provision of certain novel and useful improvements serving to protect the brush when not being used and thereby prolonging the useful life of the brush, as well as permitting of easy and quick change of the brush from a position of concealment and protection within the holder to a position of projection of the brush from the holder ready for use.

A further object of the invention is a novel brush and brush-holder combination adapted to have a single brush concealed and protected therein or to have two identical or similar brushes associated therewith and adapted to be singly or both simultaneously either concealed and protected within the holder or to be singly or simultaneously positioned projecting from one or both ends, respectively, of the holder, so that the single holder will contain a separate brush at either end whenever desired. The utility of the latter provision is readily apparent, especially in case each of the two brushes is to be used for applying a different color of paint.

The above as well as additional objects will be clarified in the following description, wherein characters of reference refer to like-numbered parts in the accompanying drawing. It is to be noted that the drawing is intended solely for the purpose of illustration and that it is therefore neither desired nor intended to limit the invention necessarily to any or all of the exact details of construction shown or described except insofar as they may be deemed essential to the invention.

Referring briefly to the drawing, Fig. 1 is an elevational view of a brush and brush-holder combination embodying the principles of the present invention, with the detachable brush concealed in the holder, and further illustrating in phantom how the brush is withdrawn from the holder.

Fig. 2 is a similar elevational view of the device, but illustrating how the brush is inserted into the holder ready for use.

Fig. 3 is a view showing the combination with the brush positioned ready for use.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1, showing also in phantom the brush ready to be dropped into the holder into the position thereof shown at the bottom in full lines and also shown in Fig. 1.

Fig. 5 is a fragmentary exploded perspective view, with parts broken away and partly in section, of one of the two identical ends of the holder barrel and the associated end sleeve.

Fig. 6 is an elevational view, with parts broken away and partly in section, of a modified form of holder barrel provided with two identical brushes, one of which is adapted to be positioned projecting from each end for use as a double brush.

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Fig. 7 is an elevational view of the lower half of the device shown in Fig. 6, illustrating the manner of removing the lower brush from the lower half of the barrel.

Fig. 8 is a view similar to Fig. 7 but illustrating the manner of inserting the brush into the lower half of the barrel for concealment and protection therein.

Fig. 9 is an elevational view of the modified device shown in Fig. 6, showing both brushes concealed within the barrel.

Referring in detail to the drawing, Figs. 1 through 5 shows the device in one form, that is, wherein the barrel 10 comprises a hollow or tubular member having any desired external configuration, but being formed of one piece and having an axial passage 11 therethrough, of constant diameter. At each end the barrel 10 has a threaded flange 12 of reduced external diameter, and projecting therefrom are a plurality of elongated circumferentially spaced resilient prongs 13. The internal diameter of the imaginary cylinder in which the prongs 13 lie, is normally equal to the diameter of the passage 11. Two identical sleeves 14 are provided, one for each end of the barrel. Each sleeve has an internally threaded flange 15 whereby the sleeve is adapted to be threaded on the barrel flange 12, and a tapering or conical body 16 whose internal diameter diminishes from the flange 15 to the open extremity 17 of the sleeve.

In association with the barrel 10 is the brush 18, the latter comprising a cylindrical stem 19 whose diameter is smaller than that of both the passage 11 and the open end 17 of the sleeve 14, and the brush bristles 20.

It is apparent from the above that when a sleeve 14 is screwed down upon a barrel flange 12, the prongs 13 of the latter are brought together, so that when the stem 19 is positioned as shown in Figs. 1 and 4, either at the top or bottom end of the holder, it will be securely held in position.

Assuming that the device is in the condition shown in Fig. 1, that is, unready for use as when in storage, and it is desired to prepare it for use, the bottom sleeve is unscrewed a sufficient distance to permit the prongs 13 to release the stem 19 to permit the brush 18 to fall through the bottom of the sleeve. With the sleeve 14 still partly unscrewed, as shown in Fig. 2, the brush 18 is turned upside down and the stem 19 is reinserted into the sleeve. When the brush has been properly positioned for use, the sleeve 14 is screwed tight on the barrel, as shown in Fig. 3, so that the prongs 13 will press against the stem 19 to hold the brush securely.

To restore the brush within the barrel, as shown in Fig. 1, the device of Fig. 3 is turned upside down, the then top sleeve 14 is unscrewed sufficiently to loosen the stem 19 to permit the brush to fall down the passage 11, and then the lower sleeve 14 is unscrewed to permit the stem to assume the position thereof shown at the bottom of Fig. 4. Both sleeves 14 are then tightened.

In the modified form shown in Figs. 6 through 9, the only structural modification consists in the provision of the barrel 10a in two complementary halves or parts 21 and 22, the former having an internally threaded flange 23 in which an externally threaded flange 24 on the latter engages to unite the halves into a single barrel 10a. This barrel is adapted to carry two brushes, one at each end when both are to be used, or one only at one end and the other concealed when but one brush is to be used, or both concealed when the device is not in use. The manner of manipulating the two brushes 18 is illustrated in these figures, and is believed unnecessary to be described in detail, except to state that each brush 18 remains always associated with the same half-barrel 21 or 22, the stem 19 in every case being released or secured exactly as above

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described, that is, by unscrewing or screwing down the corresponding sleeve 14.

Obviously, modifications in form or structure may be made without departing from the spirit or scope of the invention.

I claim:

1. A device of the class described comprising an elongated barrel having an axial passage therethrough of constant diameter, said barrel having an externally threaded flange at each end thereof, two identical end sleeves each comprising a conical body having a conical axial passage therethrough and having an internally threaded flange on that end thereof having the largest diameter, each of said sleeves being screwed on one of said barrel flanges by threadable engagement of the sleeve flange with the barrel flange, each of said barrel flanges having a plurality of elongated circumferentially spaced resilient prongs projecting therefrom into the adjacent of said sleeves, said prongs on each end of the barrel when unflexed lying in an imaginary cylinder having the same internal diameter as said passage, said prongs being flexed toward the center of said cylinder upon tightening of the corresponding of said sleeves on the barrel, and a brush comprising a cylindrical stem having a diameter smaller than the diameter of said passage and smaller than the smallest diameter of the sleeve but larger than the smallest diameter of said prongs when flexed as aforesaid, said brush including brush bristles extending longitudinally

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from one end thereof, said brush being loosely and freely slidable through said passage in both directions, said stem being adapted to be positioned in either end of the device and secured therein with the bristles projecting therefrom or in reverse position, said brush in either of said positions being secured by tightening of the sleeve on the barrel and thereby clamping said prongs against said stem.

2. The device set forth in claim 1, said barrel being divided midway of its length into two equal half-sections having said axial passage continuous therethrough, said half-sections having means for releasably interlocking the same together in alignment, and an additional brush and likewise freely slidable through said axial passage identical with said first-named brush, said first-named brush being associated with one of said half-sections and said additional brush being associated with the other of said half-sections.

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