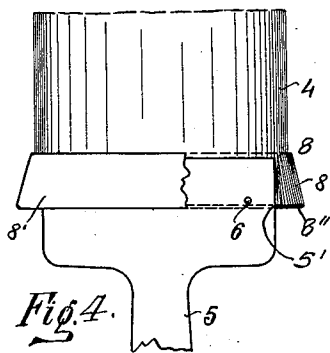
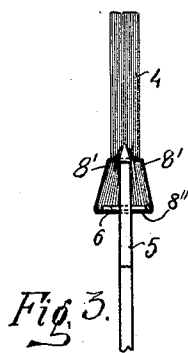
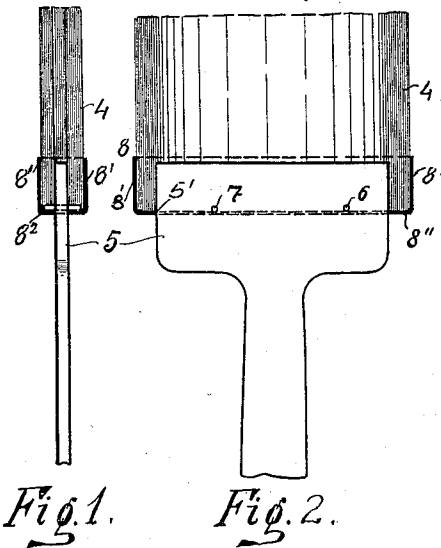


C. STAHL.
BRUSH.

APPLICATION FILED FEB. 9, 1910.

1,017,334.

Patented Feb. 13, 1912.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CARL STAHL, OF NUREMBERG, GERMANY.

BRUSH.

1,017,334.

Specification of Letters Patent.

Patented Feb. 13, 1912.

Application filed February 9, 1910. Serial No. 542,841.

To all whom it may concern:

Be it known that I, CARL STAHL, of Nuremberg, Bavaria, Germany, have invented an Improvement in Brushes, of which the following description, in connection with the accompanying drawing, is a specification.

This invention relates to improvements in brushes of all kinds, and the objects of my improvements are to securely hold the bristles in connection with the handle or support, such securing means employed being such as to facilitate assemblage of parts and reduce the cost of manufacture, consistent with the desired efficiency of the completed article.

The construction of the so called wide painting brush is illustrated by way of example in the accompanying drawing in which;

Figure 1 is a transverse section through the brush proper and handle in elevation, and in assembled relation to each other. Fig. 2 is a view similar to Fig. 1, in longitudinal section. Fig. 3 is a view similar to Fig. 1 showing the securing means adjacent and holding the brush proper in connection with its handle. Fig. 4 is a view in elevation disclosing the relative position of parts as shown in Fig. 3, a part of the securing means being broken away to disclose the details of construction.

Similar characters refer to similar parts throughout the views.

The bundle of bristles 4 is formed in the well-known manner, and into one end of such bundle of bristles, assembled to form a brush proper, is introduced a brush handle 5 as clearly shown in Fig. 1. The handle 5 is provided near its head end with laterally projecting pins 6 and 7.

It is desirable to dip the handle securing end of the assembled bundle of bristles into an adhesive substance before inserting the brush handle 5 thereinto. In positioning the handle with respect to the bundle of bristles, the former is inserted into the latter until the ends of the bristles engage the before mentioned pins 6 and 7. The bundle of bristles and handle are then introduced into a metal frame 8. The lateral walls 8' of the said frame are, in assemblage, at right

angles to the bottom plate 8'' which is provided with a recess 5' corresponding to the cross section of the handle.

After assemblage of the parts as shown in Figs. 1 and 2, the metal frame 8 is treated in any desired press or other device in such a manner that the rectangular inner space is converted into a trapezium as shown in Figs. 3 and 4. Owing to the change of shape of the metal frame, the strength of the latter is considerably increased, while the bundle of bristles, the handle and the frame are all securely clamped together at the same time. The transverse pins 6 and 7 provided on the handle protect the latter against sliding out backward, while the said handle is prevented from pushing through to the bristle side by the bristles which are bent by the frame 8 over the end of the handle and pressed together.

From the foregoing it is made manifest that I provide a brush which greatly reduces the cost of manufacture thereof, consistent with the efficiency and durability of the brush.

I claim:—

In combination, a bundle of bristles assembled to form a brush and provided with a hollow handle receiving portion composed of a single length of bristles extending from end to end of the brush, a handle projecting into said hollow portion and having laterally projecting pins engaging the ends of said bristles, and a one-piece guard or ferrule having a slotted top portion fitting about the handle and engaging said pins on that side thereof opposite to the point of engagement therewith by the ends of said bristles, said guard having lateral portions embracing the bristles and having their outer or end marginal portions compressed against the bristles to reduce the thickness of the brush, at the marginal portion of said guard, with respect to the length of said pins, and with respect to the thickness of the bristles adjacent the top of said guard.

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

CARL STAHL.

Witnesses:

GEORG LEITNER,
OSCAR BOCK.