April 7, 1931. A. STEIDLE 1,799,260

BRUSH

Filed Dec. 24, 1928

Fig. 2.

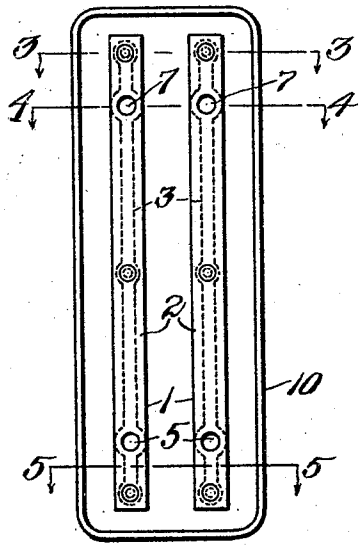


Fig. 8.

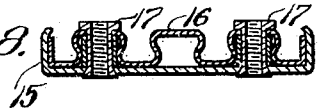


Fig. 7.

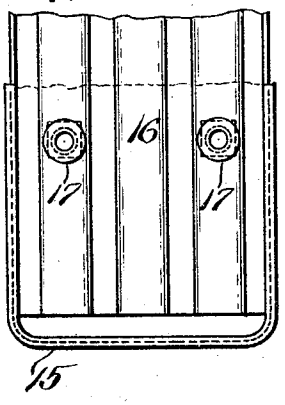


Fig. 1.

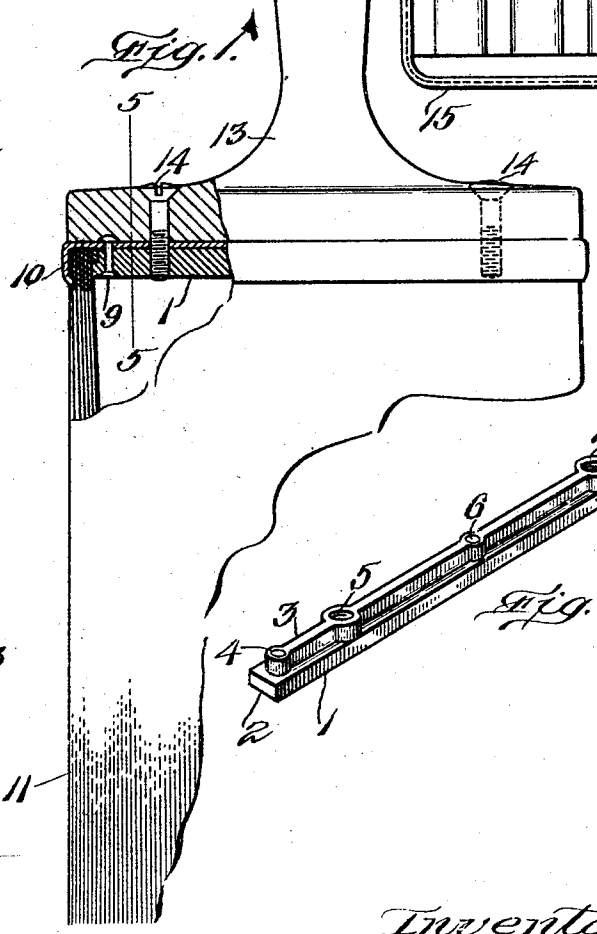


Fig. 3.

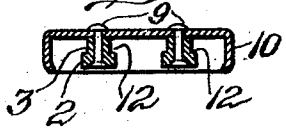


Fig. 4.



Fig. 5.

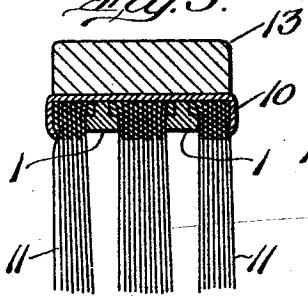


Fig. 6.

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UNITED STATES PATENT OFFICE

ANTON STEIDLE, OF ARLINGTON, MASSACHUSETTS

BRUSH

Application filed December 24, 1928. Serial No. 328,081.

My invention relates to means for holding the several parts of a brush in assembled relation and a feature thereof is the provision of a portion to engage a screw, the head of the latter being preferably at the outside of the brush so as to be free from paint or the like and available to permit disassembly.

Another feature is a core strip for holding the bristles in place and preferably this member is provided with threading to engage said screw and preferably also this member is a single casting.

Other features will be pointed out below.

In the drawing

Figure 1 is an elevation, partly in section and partly broken away, of a brush embodying my invention;

Figure 2 is a bottom plan of the casing and holding elements;

Figure 3 is a section on line 3—3 of Figure 2, the transverse portion of the casing being at the top in Figure 3;

Figure 4 is a section on line 4—4 of Figure 2, the transverse portion of the casing being at the top in Figure 4;

Figure 5 is a section on line 5—5 of Figure 1, the section being indicated also at line 5—5 of Figure 2;

Figure 6 is a perspective of one of the core strips;

Figure 7 is a partial bottom plan, and

Figure 8 is a section, of a modification described below.

One of the bristle holding core strips 1, shown fully in Figure 6, is preferably an aluminum casting formed with a relatively wide portion 2 and with a relatively narrow portion 3 arranged centrally longitudinally of portion 2 and formed also with perforations 4, 5, 6, 7 and 8, the perforations 5 and 7 being internally threaded, the walls of the perforated portions extending beyond the narrow portion 3 for reenforcement and being curved for better casting and so as to prevent as much as possible sharp separation of the bristles adjacent to said walls.

One or more of the holding core elements 1 may be used as desired, two being shown. These are attached by brads 9 or otherwise to the casing 10, the latter being suitably perforated not only for the shanks of the brads but also for the shanks of the screws described below. By making these perforations at the desired locations transversely of the casing the bristle holding elements may be located as desired. When the brads have been applied and upset the casing 10 is ready to receive the bristles and it is placed, as in Figure 2, with the transverse portion at the bottom and some liquid rubber is preferably put into the casing. Then the bristles 11, which may be in bunch or tuft form cemented together as shown in my Patent No. 1,642,974 dated September 20, 1927, are put into the casing as shown in Figures 1 and 5. It is preferable to slightly compress the butts when they are inserted so that when released they will spread slightly and extend into the space between the transverse portion of the casing and that part of portion 2 which extends beyond portion 3, the bristles thus entering a pocket and being firmly held against withdrawal by the shoulder, such as 12. When thus assembled the bristles are vulcanized. After vulcanization the casing 10 is attached to handle 13 by means of screws 14, which are applied from the outside of the brush, there being preferably two screws for each bristle holding core strip, the handle being perforated to receive the screws, whose threading engages the internal threading of perforations 5 and 7 of the bristle holding core strips 1, thus providing a rigid, durable connection between the handle, casing and bristle holding core strips.

An outstanding advantage of my brush is that the heads of the screws are at the outside of the brush so that they are readily available to be turned for disassembly instead of the heads being at the inside within the bristles where they are likely to become coated with paint or other material to such an extent as to seriously interfere with ready removal of the screws.

In the form of Figures 7 and 8 I show a casing 15, a bristle holding core strip 16 and tubular rivets 17 like the corresponding parts in my said Patent No. 1,642,974 dated September 20, 1927, with the difference that the rivets 17 are internally threaded to engage

the threading of the screws which may consequently be inserted from the ouside as in Figure 1.

What I claim is:

1. A brush comprising a handle; bristles; a casing; and an elongated core strip having a relatively wide portion and a relatively narrow portion arranged centrally and longitudinally of the wide portion and having perforations to receive attaching means, the walls of said perforations extending outward in curved form beyond the narrow portion; and means to hold the core strip and handle in proper relation.

2. A brush comprising a handle; bristles; a casing; and an elongated core strip made in a single piece and having a relatively wide portion and a relatively narrow portion arranged centrally and longitudinally of the wide portion and having internally threaded perforations, the walls of said perforations extending outward in curved form beyond the narrow portion; and screws having their heads accessible at the exterior of the handle and engaging said internal threading to hold the handle and bristles in proper relative position.

ANTON STEIDLE.