

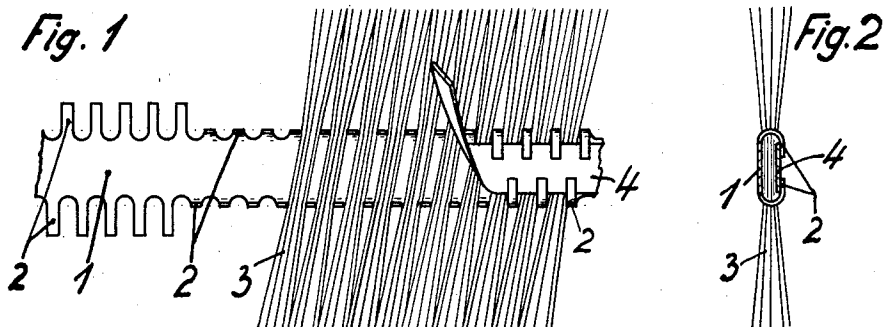
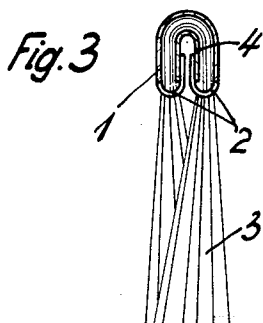
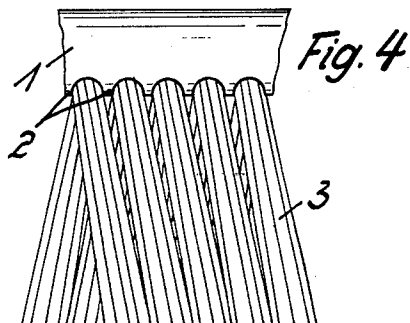
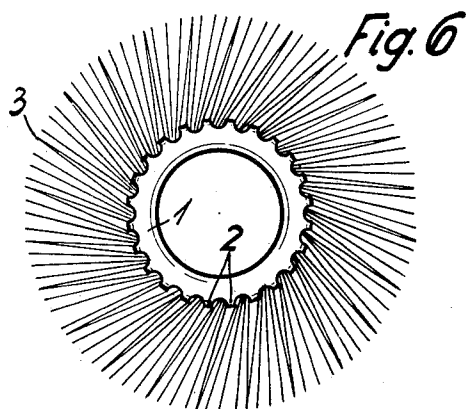
Aug. 15, 1933.

K. VOGLER

1,922,752

BRUSH

Filed Aug. 27, 1932



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UNITED STATES PATENT OFFICE

1,922,752

BRUSH

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Application August 27, 1932, Serial No. 630,694,
and in Germany September 7, 1931

6 Claims. (Cl. 15—182)

My invention relates to brushes, and more particularly to improvements in brushes consisting of a layer of bristles clamped between two metal-strips.

5 An important feature of my invention resides in the division of the layer of the bristles into tufts, so that the cleaning of the bristles is considerably facilitated. While this feature is com-
mon with ordinary brushes, I believe that prior
10 to my invention it has never been used with brushes of the kind particularly referred to.

Another important feature of the invention resides in the means for dividing the layer of the bristles into tufts and for connecting the
15 clamping metal-strips.

Other features and important details of the new brush will be apparent from the following description and the annexed drawing, in which:—Fig. 1 illustrates the method for manu-
20 facturing of the new brush; Fig. 2 is a cross-section on the line 2—2 of Fig. 1; Fig. 3 is a cross-section on the line 3—3 of Fig. 4; Fig. 4 is a side elevation of a part of the finished brush, Fig. 5
25 shows a helically bent brush; Fig. 6 shows the new brush in the form of a circle.

Referring first to Figs. 1 and 2 the foundation sheet metal strip 1 is provided along both its edges with prongs 2 which are bent over the sheet
30 metal cover strip 4. Between the metal strips 1 and 4 is inserted the layer of bristles. The prongs 2 connecting the metal strips divide the layer of bristles into tufts 3. The prongs on one edge of the strip 1 are staggered relatively to the
35 prongs on the other edge. The bristles are placed obliquely on the strip 1 so that every tuft lies in staggered gaps between prongs of both edges of the strip. It is of course possible to provide both strips 1 and 4, with prongs.

40 The brush parts thus assembled are bent in U-form shown in Figs. 3 and 4. This form enhances the stability of the brush and the clamping effect on the bristles inasmuch as they are squeezed between comparatively very large sur-
45 faces. I may specially mention that with the new construction any desired length of the brush can be cut off without the bristles becoming loose or dropping out at the brush-ends. Any special fastening of the bristles at these ends may there-
50 fore be dispensed with.

What I claim is:

1. In a brush, two metal-strips, a layer of bristles placed obliquely to and clamped between the
55 strips, prongs on at least one of the strips bent over the other strip and dividing the layer of

bristles into tufts projecting at an inclination to the length of the strips.

2. In a brush consisting of a layer of bristles clamped between two metal-strips of an U-shaped cross-section, prongs on at least one of the strips
60 bent over the other strip and dividing the layer of bristles into tufts projecting at an inclination to the length of the strips.

3. In a brush, two metal-strips, a layer of bristles placed obliquely to and clamped between the
65 strips, prongs on at least one of the strips bent over the other strip and dividing the layer of bristles into projecting tufts, the said prongs being arranged in staggered relation on both edges of the strip.
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4. In a brush, two metal-strips of a U-shaped cross-section, a layer of bristles placed obliquely to and clamped between the strips, prongs on at least one of the strips bent over the other strip
75 and dividing the layer of bristles into projecting tufts, the said prongs being arranged in staggered relation on both edges of the strip.

5. In a brush consisting of a layer of bristles clamped between two metal-strips of a U-shaped cross-section and a curved longitudinal
80 configuration, prongs on at least one of the strips bent over the other strip and dividing the layer of bristles into tufts projecting at an inclination to the length of the strips.

6. In a brush, two metal-strips of a U-shaped
85 cross-section and a curved longitudinal configuration, a layer of bristles placed obliquely to and clamped between the strips, prongs on at least one of the strips bent over the other strip and dividing the layer of bristles into projecting tufts,
90 the said prongs being arranged in staggered relation on both edges of the strip.

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