

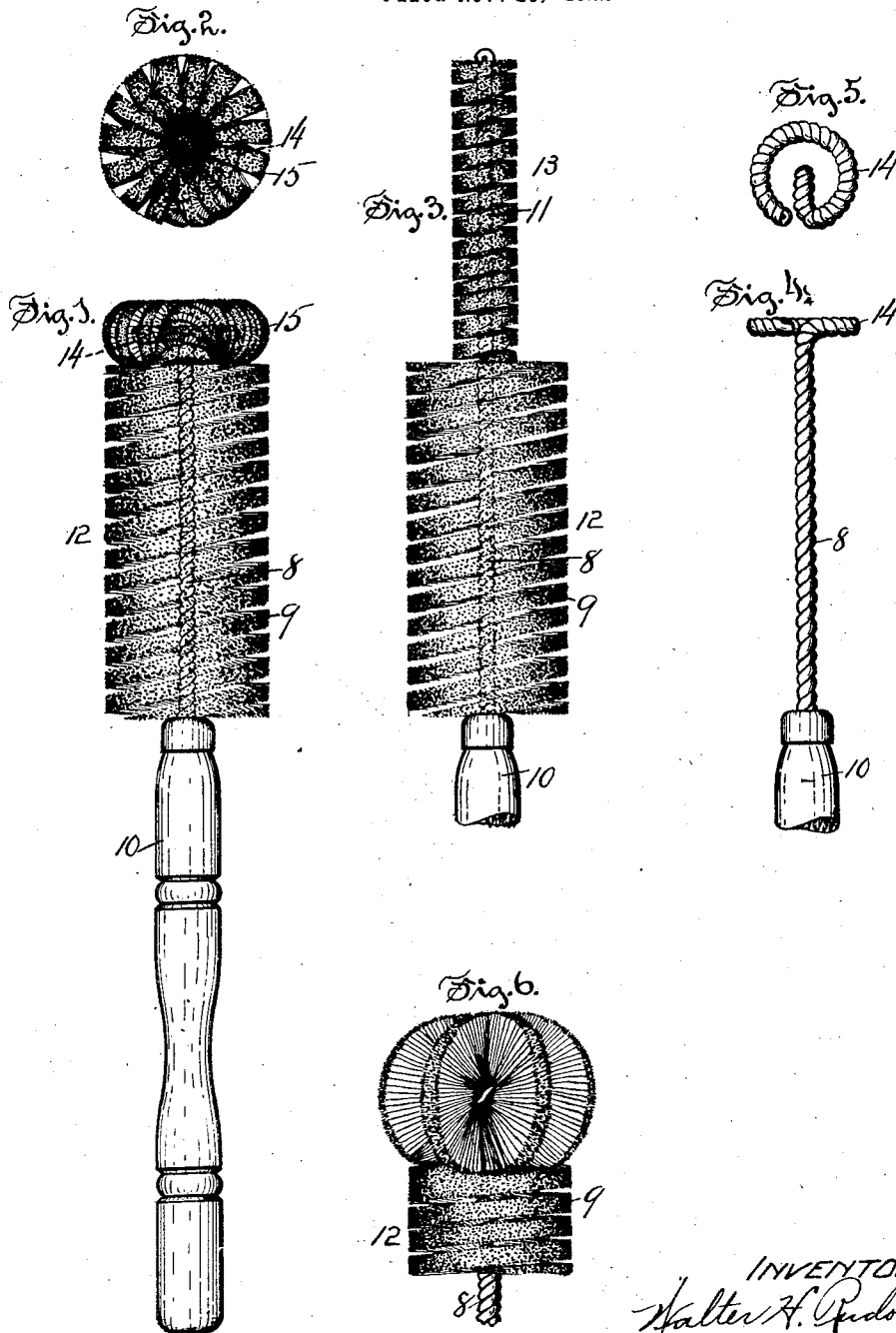
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BRUSH

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BRUSH.

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Our invention relates more especially to that type of brushes in which the bristles are secured to a core composed of wire twisted to shape, the bristles being secured to the core in the twisting operation, and an object of our invention, among others, is to provide in an efficient and economical manner a tuft forming the end of the brush structure.

One form of brush embodying our invention and in the construction and use of which the objects herein set out, as well as others, may be attained, is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a brush embodying our invention.

Figure 2 is an end view of the same.

Figure 3 is a side view of the brush as it appears at an intermediate step in its formation.

Figure 4 is a view illustrating the shape of the core as finally formed.

Figure 5 is an end view of the structure shown in Figure 4.

Figure 6 shows a modified form of the brush.

In the accompanying drawings the numeral 8 indicates the core of our improved brush having bristles 9 projecting radially therefrom, this core comprising strands of wire, preferably two, that may consist of separate pieces of wire, or a single piece folded backwardly upon itself, and that are twisted together, the bristles being secured in place during the twisting operation and consequently being spirally arranged, as shown in the drawings. The core 8 may be secured in a handle 10 in any ordinary way and the manner of formation of the brush thus far described is old and well known.

In carrying out our invention the tip portion 11 of the twisted wire core is extended beyond the main part or body 12 of the brush, bristles being secured to this core in the same manner as in the formation of the body. The tip section 13 thus formed is trimmed to a smaller diameter than the body 12, and as illustrated in Figure 3 of the drawings.

After this trimming operation the portion 11 of the core is bent into such suitable form as may be desired, and this portion is then further bent so that it will be located in a

plane substantially at right angles to the axis of the core 8. The preferred form of this portion 11 will be curved to comprise a portion of or a complete circle or ring 14, as shown in Figure 4 of the drawings, the axis of the core 8, when the brush is formed as last described, being coincident with the axis of the ring 14.

When the portion 11 is thus formed and bent as just described a tuft 15 will be located at the end of the body 12, as illustrated in Figure 1 of the drawings, the brush thus having at its extreme end bristles projecting in all directions, whereby the end of the brush is suitably formed for cleaning purposes as well as the sides of the body 12.

In that structure illustrated in Figure 6 the core 8 and body 12 are formed as above described, the core being formed into a ring located in a plane at right angles to the core, as hereinbefore described. This tip of the brush, however, is not reduced in size but it is maintained, in the trimming operation, of the same size as the body of the brush, with a result that a tuft is produced, as illustrated in Figure 6.

In accordance with the provisions of the patent statutes we have described the principles of operation of our invention, together with the device which we now consider to represent the best embodiment thereof; but we desire to have it understood that the device shown is only illustrative and that the invention may be carried out by such other means and applied to such uses other than those above set out as fall within the scope of appended claims.

We claim—

1. A brush comprising a twisted wire core with bristles secured thereto, a ring formed of the core at its tip, said ring being located in a plane at right angles to the axis of the core.

2. A brush comprising a body including a core with bristles secured thereto, and terminating in a tip including a core with bristles secured thereto and smaller in size than the body and formed into the shape of a ring located in a plane at right angles to the axis of the body and with bristles projecting radially from said ring-shaped core.

3. A brush comprising a twisted wire core with a body formed of bristles secured to

said core and a tip of similar form and composed of bristles, but with the tip smaller than said body, said tip being bent into ring form and located in a plane at right
5 angles to the axis of the body.

4. A brush comprising a body and tip, a single continuous twisted wire core for the

body and tip, and spirally arranged bristles carried by the core and extending the full length thereof, the tip portion of the core 10 and bristles being bent into a loop in a plane transversely of the body portion.

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