No. 866,784. PATENTED SEPT. 24, 1907.

W. L. GLORIEUX, JR. & V. F. STRUCK.

BRUSH.

APPLICATION FILED APR. 27, 1906.

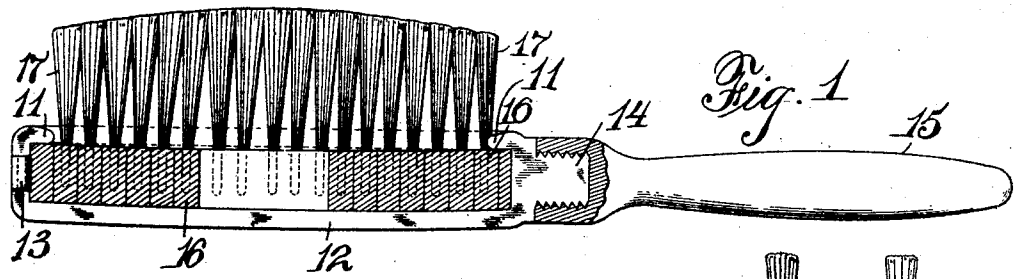


Fig. 1

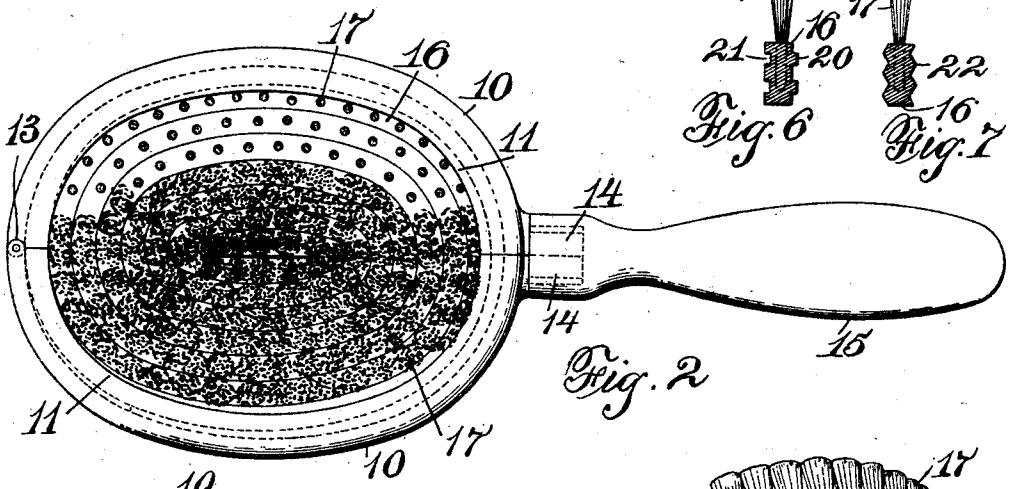


Fig. 2

Fig. 6

Fig. 7

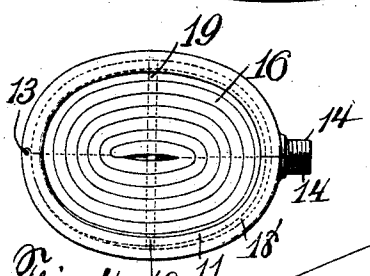


Fig. 4

Fig. 3

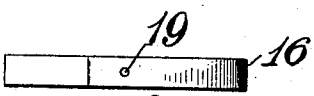


Fig. 5

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BRUSH.

No. 866,784. Specification of Letters Patent. Patented Sept. 24, 1907.

Application filed April 27, 1906. Serial No. 313,973.

To all whom it may concern:

Be it known that we, WILLIAM L. GLORIEUX, Jr., and VICTOR F. STRUCK, citizens of the United States, residing at Irvington and Newark, respectively, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Brushes; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to an improved brush that can be taken apart for cleaning purposes, and in which the bristles are arranged in a tape that is wound up in an approximately spiral way with the bristles parallel with the axis of the spiral.

The invention further provides for a holding means for the spiral, and also for a handle portion that is adapted to lock the holding means.

A further object of the invention is to provide means for holding this spiral, when it is wound, so that it will maintain a flat position.

In the drawings, Figure 1 is a section of the improved device, and Fig. 2 is a top view with some of the bristles cut off so as to show the formation of the holding tape. Fig. 3 is a perspective view of the tape partly unwound. Fig. 4 is a plan showing a means for holding the tape flat, and Fig. 5 is a side view of the tape in Fig. 4, with the outside rim or casing removed. Figs. 6 and 7 are sections of the tape of a modified form.

The brush is composed of half sections 10 that have the over lapping top edges 11 and the back 12. These half sections are pivoted together at 13 and have the two semi-circular screw-threaded portions 14 on the end opposed to the pivot, and a handle 15 with a screw-threaded perforation in one end fits over these half sections 14 and when screwed up, locks them together.

A tape 16 which is made of rubber or canvas, or any suitable material, is provided with the bristles 17, and when this tape is wound up and placed between the half sections 10, these half sections are drawn together and the handle 15, when it is screwed in its place, holds these half sections to embrace the tape and the upper over lapping edges 11 project over the outside edge of the roll of tape, and makes a better finish, at the same time assisting to hold the tape in place. The free end 18 of the tape is preferably left free of bristles, and is tapered so that it will fit in to make the line of bristles inside the inner edge of the over lapping edges 11. It will be seen from this description that the tape 16 with its bristles can be taken out and unwound and rewound, and put back after being cleaned without unnecessary trouble.

In Fig. 4, we show a modified construction in which we supply the tape 16 with holes at suitable points to receive a rod 19. This rod is shown also in Fig. 5, and its function is to prevent any bulging of the spiral in the center when the two halves 10 are brought together. Another way to prevent this bulging, would be to provide the tape with tongues and grooves 20 and 21, shown in Fig. 6, or with the serrations 22, shown in Fig. 7 to cause the successive strips to lie in line. This structure tends to make a sanitary brush and one that is cheap to make and that can be easily supplied with new bristles.

Having thus described our invention, what we claim is:—

1. A brush comprising a tape provided with a set of bristles on one edge, the tape being wound to form an elliptical spiral and with the bristles parallel with its axis, a handle having means for surrounding and clamping the spirally wound tape, and means for holding the spirally wound tape flat.

2. A brush comprising a tape provided with a set of bristles on one edge, the tape being wound to form an elliptical spiral and with the bristles parallel with its axis, a handle having means for surrounding and clamping the spirally wound tape, and means on the clamping means for holding the spirally wound tape flat.

3. A brush comprising a compressible tape provided with a set of bristles on one edge, the tape being wound to form an elliptical spiral, a holding means for clamping the spirally wound tape and compressing it around its periphery, the holding means having a lip on the top for engaging the edge of the spirally wound tape, and means for clamping the holding means together.

In testimony, that we claim the foregoing, we have hereunto set our hands this 25th day of April 1906.

WILLIAM L. GLORIEUX, JR.
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Witnesses:
E. A. PELL,
WM. H. CAMFIELD.