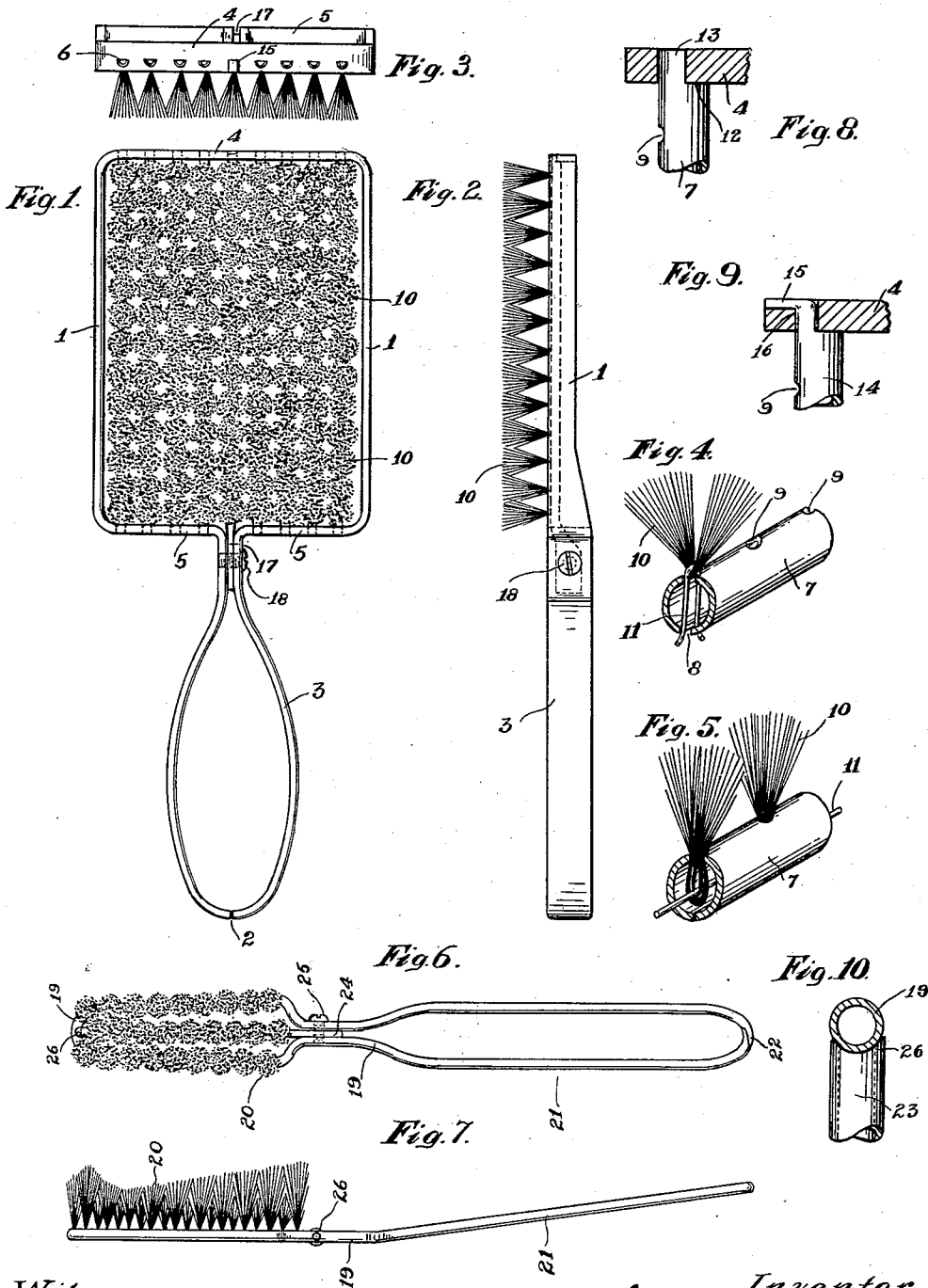


J. J. BRANDSTETTER.
BRUSH.
APPLICATION FILED DEC. 15, 1909.

1,007,328.

Patented Oct. 31, 1911.



Witnesses
Arthur H. Ewald
S. Smith,

Inventor
Joseph J. Brandstetter
by Alfred M. Allen
Attorney

UNITED STATES PATENT OFFICE.

JOSEPH J. BRANDSTETTER, OF FORT THOMAS, KENTUCKY.

BRUSH.

1,007,328.

Specification of Letters Patent.

Patented Oct. 31, 1911.

Application filed December 15, 1909. Serial No. 533,258.

To all whom it may concern:

Be it known that I, JOSEPH J. BRANDSTETTER, a citizen of the United States, and a resident of Fort Thomas, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Brushes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to brushes for scrubbing and brushing generally and more particularly to hair and tooth brushes, and the object of the invention is to provide a brush which shall be exceedingly sanitary, and which can be readily and easily cleaned and kept in perfect condition for use at all times.

In addition to the sanitary features, my improvements embody certain novel features of construction whereby the bristles may be readily and easily secured in place and the rods holding the bristles may be easily mounted and held in position, so that one or more rods can readily be removed and replaced when repairs are necessary.

In the drawings,—Figure 1 is a plan view of my invention as applied to a hair brush. Fig. 2 is a side elevation of the same. Fig. 3 is an end elevation. Fig. 4 is a detail perspective view of one of the bristle supporting tubes, showing the method of securing the bristles. Fig. 5 is a similar perspective view, showing the bristles in place. Fig. 6 is a plan view, and Fig. 7 is a side elevation of my invention as applied to a tooth brush. Fig. 8 is a detail view, showing the method of securing the rods in the framework. Fig. 9 is a similar view of the central rod for the hair brush. Fig. 10 is a similar view of the central rod for the tooth brush.

In Figs. 4, 5, 8, 9 and 10, the tubes are much enlarged in size over the construction as illustrated in the other figures.

For a hair brush, I provide a metal frame 1, preferably made in a single piece, bent as shown to form the desired shape for the hair brush, with the ends brought together at 2, forming the handle 3. Before the frame is bent to shape in the portion that is to form the end 4, and the ends 5, 5, of the brush, I cut semi-circular openings 6, 6. All of the bristles for the brush are mounted on tubes 7. These tubes are open longitudinally at 8 and provided with a series of apertures 9, 9, and in order to mount the bristles

10 in the tubes, a loop of wire 11, or other suitable flexible material is passed through the aperture and the desired tuft of bristles secured to the loop, and the loop is then drawn into the tube and the wire passed through the next aperture, and so on for the length of the rod, each tuft of bristles being properly secured or tied in any desired way. The longitudinal slit in the tube is then closed and the tube can be filled with any suitable filler, such as liquid glue, wax, cement or the like, to effectually secure the bristles in place. Each end of each rod is cut away, as shown in Fig. 8, to form a shoulder 12, and the semi-circular ends 13 of the rods are passed into the openings 6, which prevents the rods from turning.

In order to properly brace the brush, and to improve the stability of the framework, I secure the central rod or tube 14 somewhat differently. For the front end, I form a lip 15, which extends beyond the surface of the frame 4, and is turned over or upset into the groove 16, so as to be flush with the outer surface of the frame. The opposite or inner end of this central tube 14 is flattened and extended at 17 between the two faces of the inner end of the handle 3, and the rod and the two portions of the handle are secured together by the screw 18.

For the tooth brush, as illustrated in Figs. 6 and 7, I do not provide any external framework separate from the tubular portion carrying the bristles.

The framework for the tooth brush is made up of a tube 19 bent in the shape of the tooth brush, and provided with a series of holes in which are secured the bristles in the same way as in the hair brush. The outer ends of the tube are extended to form the handle 21 and are riveted together at 22 when the brush is completed. The central tube 23 for the tooth brush is provided with the extension 24 which is secured by the screw 25 to the inner end of the handle, as in the hair brush construction. To hold the outer end of the central tube 23 in place, a semi-circular notch 26 is formed in the end of the tube to engage the circular contour of the tubular framework, as illustrated in Fig. 10.

What I claim as new, and of my invention and desire to secure by Letters Patent, is:—

1. A brush, comprising a series of tubes with bristles secured thereto, the tubes being cut at each end to form a tongue semicircu-

lar in cross section, and an open integral metallic frame with semi-circular slots to receive the tongues of the tube, and the frame bent outwardly at the middle of the base to form a handle, and clamping means situated on the handle and adapted to hold the frame in place around the tubes.

2. A brush, comprising a series of tubes with bristles secured thereto, the tubes being cut at each end to form a tongue, and an

outer metal frame slotted to receive the tongues of the tubes, with a middle tube provided with an extension, and the frame brought together to embrace the extension of the middle tube, and a screw to secure the parts together.

JOSEPH J. BRANDSTETTER.

Attest:

EARL W. GRIFFIN,
K. SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."