

No. 838,527.

PATENTED DEC. 18, 1906.

R. J. ELLIS.  
SANITARY HAIR BRUSH.  
APPLICATION FILED FEB. 7, 1906.

Fig. 1.

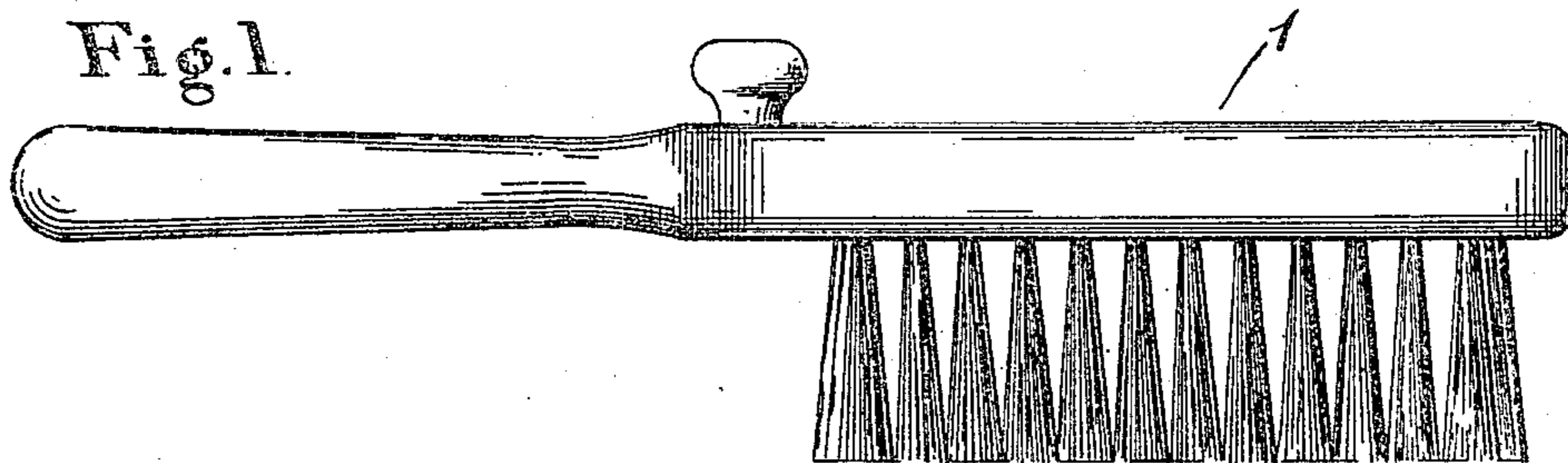


Fig. 2.

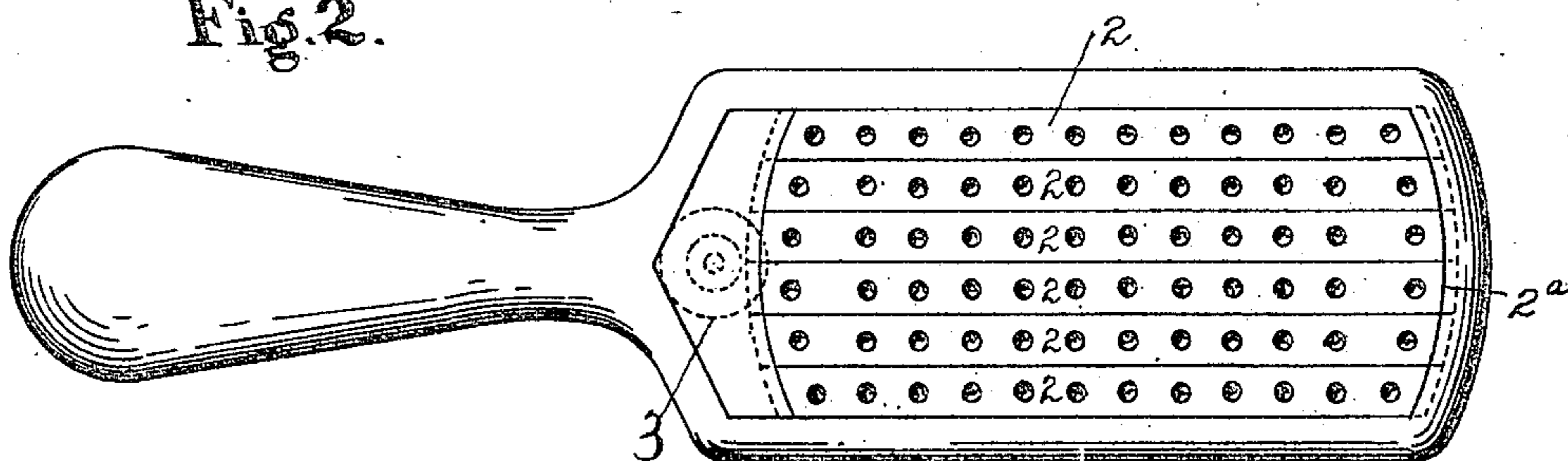


Fig. 3.

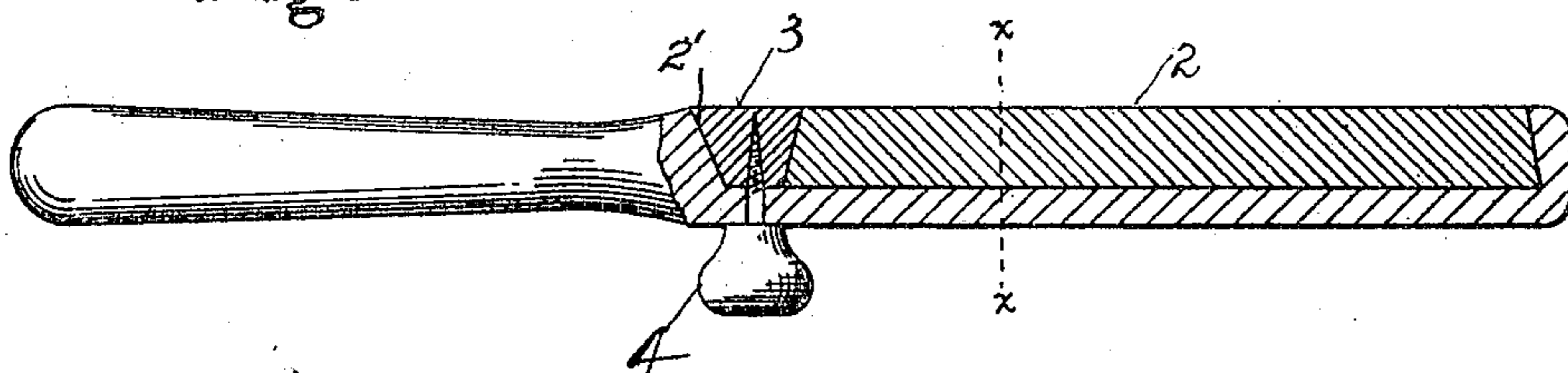
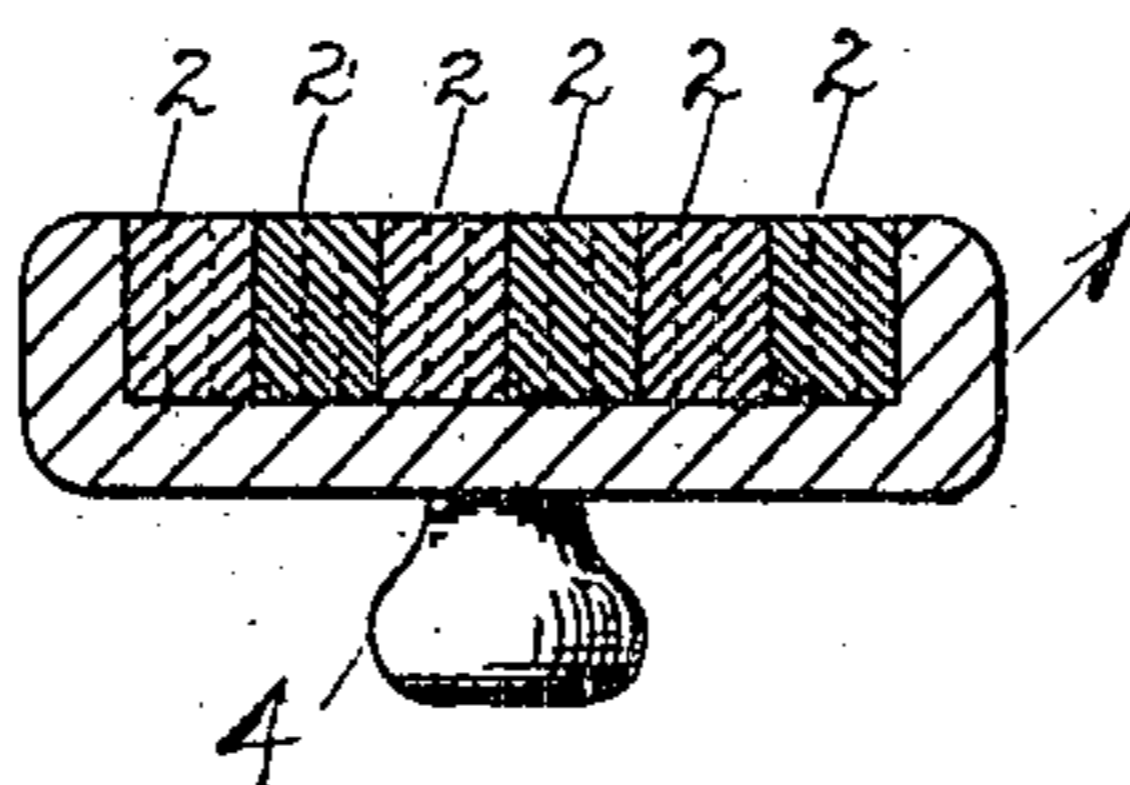


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## SANITARY HAIR-BRUSH.

No. 838,527.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed February 7, 1906. Serial No. 300,017.

*To all whom it may concern:*

Be it known that I, ROBERT J. ELLIS, a citizen of the United States, and a resident of the city and county of San Francisco, State of California, have invented a certain new and useful Improvement in Sanitary Hair-Brushes, of which the following is a specification.

My invention relates to hair-brushes, and has for its object to provide a brush capable of being taken apart, so as to be readily cleaned, and thus maintained in a sanitary condition.

I accomplish my object by means illustrated in the accompanying drawings, of which—

Figure 1 is a side elevation of my brush; Fig. 2, a view of the bottom thereof with the bristles removed; Fig. 3, a vertical longitudinal section of the back; Fig. 4, a cross-section along the line  $xx$ , Fig. 3.

Similar numerals refer to similar parts throughout the several views.

My invention comprises a body or brush-back 1, chambered on its underneath side or face, the end wall of the chamber adjacent the handle carried by the body or back being beveled, as shown at 2' in Fig. 3, and the bevel extending at an inclination from the handle toward the bottom of the chamber. One end of the chamber forms a circular arc, as best seen at 2<sup>a</sup> in Fig. 2. The sides of the chamber are perpendicular to the plane of the body, as clearly seen by reference to Figs. 2 and 4.

I provide a plurality of bristle-holders 2, said bristle-holders having beveled ends, and when lying together in the back these ends form arcs of circles, one of which is coincident with the arc of the chamber aforesaid. These bristle-holders have openings or perforations in which the bristles are received.

In order to secure the bristle-holders in the chamber, I provide a key or wedge 3, having its one side grooved in the arc of a circle and the said side beveled to fit the bevel on the corresponding end of the bristle-holders 2 and its opposite side face beveled to fit the bevel 2' of the body. This key or wedge is conveniently held in place by a thumb-screw 4, passing through the back of the body and engaging said key or wedge to hold it firmly seated in place.

When it is desired to clean my brush, the

bristle-holders are removed by unscrewing thumb-screw 4, withdrawing key 3, which leaves the bristles separated into small parts, through which it is easy to draw a comb or any suitable cleaning instrument.

In making my device the bristle-holders are set up before a band-saw, said saw being arranged at an acute angle with the perpendicular, a suitable number of said holders being grouped together. The mass of bristle-holders is then rotated past the saw on a center situated at a point one-half the length of each holder, and the rotation is continued until the holders are cut on both ends, which leaves them beveled and shaped into the requisite curve.

Having described my invention, what I claim as new, and desire to protect by Letters Patent of the United States, is—

1. A sanitary hair-brush comprising a chambered body, the wall at one end of said chamber being on the arc of a circle, and the wall at the other end of the chamber being beveled toward the bottom of the chamber, a plurality of bristle-holders beveled at both ends in the arc of a circle, said bristle-holders at one end engaging an end wall of the chamber, and a key having one face beveled on the arc of a circle to fit with the other ends of said bristle-holders and its opposite face inclined to correspond with the inclined face at one end of the chamber.

2. In a hair-brush, a body having a chamber in its underneath face, the side wall of said chamber being perpendicular to the plane of the body, one end wall of the chamber being beveled toward the outer end of the body and formed on an arc of a circle, the other end wall of said chamber being inclined toward the base of the chamber, bristle-holders mounted in said chamber each having one end shaped to fit the beveled outer wall of the chamber, a key having its opposite faces shaped to fit the other ends of said brush-holders, and the inner wall of the chamber for securing the brush-holders in the chamber.

In testimony whereof I have hereunto set my name in the presence of two witnesses.

ROB. J. ELLIS.

Witnesses:

A. J. HENRY,  
E. L. BUTLER.