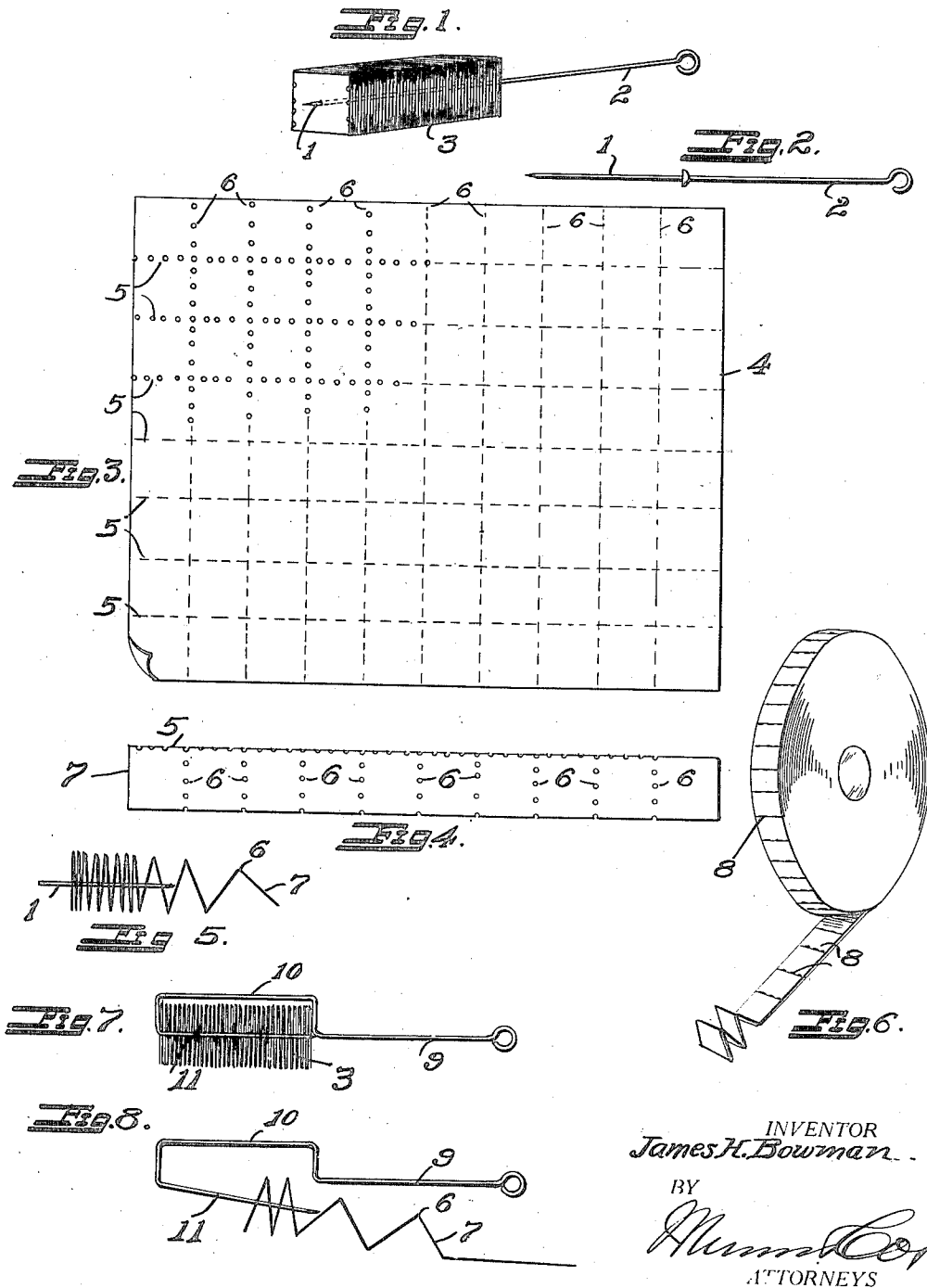


J. H. BOWMAN.
TOOTHBRUSH.
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1,384,936.

Patented July 19, 1921.



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To all whom it may concern:

Be it known that I, JAMES H. BOWMAN, citizen of the United States, and resident of Honolulu, Territory of Hawaii, have invented a new and useful Toothbrush, of which the following is a specification.

This invention relates to improvements in sanitary tooth brush, and has for one of its objects the provision of means to convert a sheet of paper of suitable size into a compact form so that it may be utilized as a tooth brush one or more times and then thrown away.

Another object is to provide a simple pliable handle on which the folded paper form may be mounted.

Another object is to prepare the paper in such form that it may be readily folded into the shape required for use as a tooth brush, and that when in its final form, it will present serrated surfaces particularly well adapted to reach every part of the teeth.

A further object is to provide a tooth brush in which the material from which it is made may be made antiseptic by treating it in a suitable solution.

These and other objects will occur to those skilled in the art to which it appertains.

I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view of the tooth brush complete; Fig. 2 is a view of the holder and handle; Fig. 3 shows a sheet of paper perforated so it will readily be divided and folded into the form required; Fig. 4 shows a strip torn on perforated lines from a sheet such as shown in Fig. 3; Fig. 5 illustrates how a strip of paper is folded and placed on the holder; Fig. 6 shows a single strip of paper scored and wound in the form of a roll; Fig. 7 illustrates a modified form of holder and handle, and Fig. 8 shows the manner of placing the folded squares of paper on the holder shown in Fig. 7.

Similar numerals refer to similar parts throughout the several views illustrating an embodiment of the invention, but I am aware that there may be modifications in the construction thereof within the scope of my invention.

The numeral 1 indicates a holder with a handle portion 2. The tooth brush 3 is

formed from the sheet of paper 4 which is divided into squares of suitable size by perforations on the lines 5 and 6.

The sheet is divided into strips 7. These strips are folded on the cross perforations so the squares come one over another and are placed on the holder 1 the sharp point of which pierces the center of each small square as shown in Figs. 1 and 5.

Instead of having the paper in the form of a sheet, a narrow strip of paper could be wound on a roll as shown in Fig. 6, and have cross perforations or score lines 8 to allow for even folding. The roll could be mounted in a suitable bracket or box so that the required length of paper could be pulled out to fold into the tooth brush for the holder as described.

In the form of holder shown in Figs. 7 and 8 the handle 9 is bent out to form the loop as shown at 10 with the point of the holder 11 turned back toward the handle.

Fig. 8 shows how the squares of paper are placed on the holder in this form of holder. In this modified form of holder both ends of the folded paper form are securely held by the loop. The holder and handle is preferably made of pliable wire so that it can be bent over the tooth brush when packed in a box.

From the above description it is obvious that the invention covers a very simple sanitary tooth brush and one so inexpensive that it can be thrown away after once using.

I claim:

1. The method of making a tooth brush comprising the division, by means of perforated lines, of a strip of paper into a plurality of substantially equal portions, the folding of said portions over one another along said perforated lines so as to form a block and the piercing of said block through said portions by a pin having a handle thereon.

2. The method of making a toothbrush comprising the serrating of the edges of a strip of paper, the division, by means of perforated lines, of said strip into a plurality of substantially equal portions, the folding of said portions over one another along said perforated lines so as to form a block having four rough surfaces, and the piercing of said block through said portions by a pin having a handle thereon.

JAMES H. BOWMAN.