J. STONE.

Improvement in Tooth-Brush Trimmers.

No. 132,032. Patented Oct. 8, 1872.

Fig: 1.

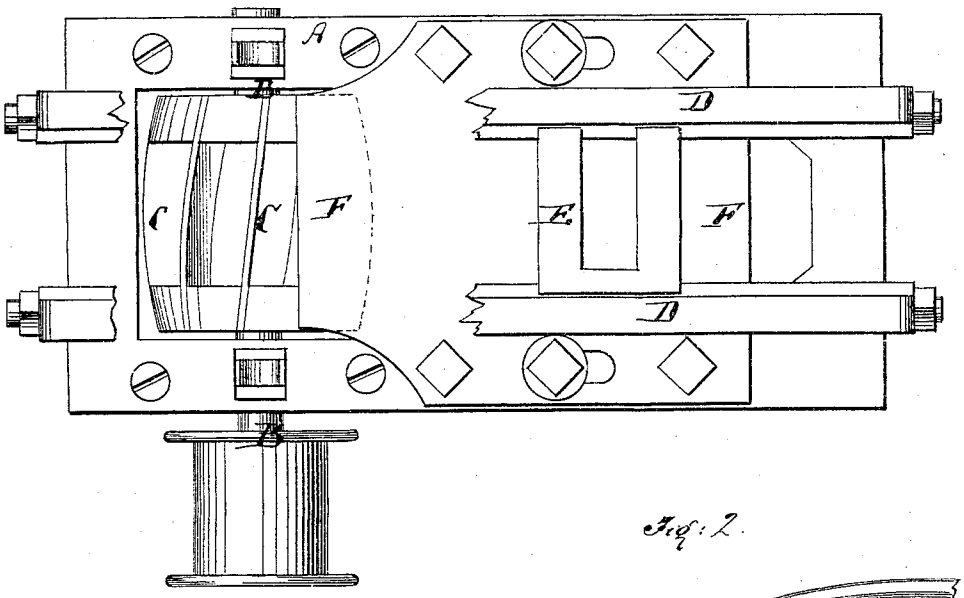


Fig: 2.

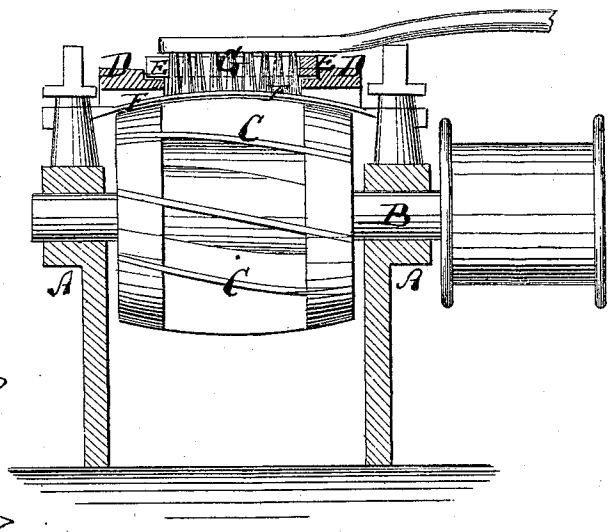
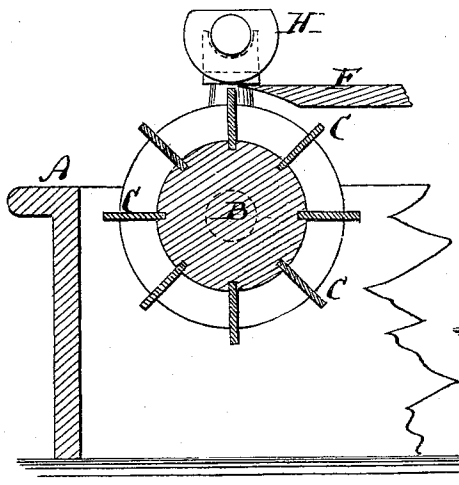


Fig: 3.



Witnesses:

Chas. Nida.

Alex F. Robertb

Inventor:

Jabez Stone

PER Munn & Co.

Attorneys.

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JABEZ STONE, OF WATERFORD, ASSIGNOR TO JULIUS KAYSER, OF NEW YORK, N. Y.

IMPROVEMENT IN TOOTH-BRUSH TRIMMERS.

Specification forming part of Letters Patent No. **132,032**, dated October 8, 1872.

CASE B.

To all whom it may concern:

Be it known that I, JABEZ STONE, of Waterford, in the county of Saratoga and State of New York, have invented a new and Improved Tooth-Brush Trimmer, of which the following is a specification:

Figure 1 is a top view of my improved tooth-brush trimmer; Fig. 2 is a vertical transverse section of the same; and Fig. 3, a detail longitudinal section, showing the cradle applied.

Similar letters of reference indicate corresponding parts.

This invention relates to a new machine for trimming the bristles of tooth and other brushes of such kind, where the rubbing-edges are concave lengthwise, and straight or convex laterally. The invention consists in the use of convex cutters on a rotary shaft, in connection with a transversely-slotted longitudinally-movable brush-carrier. In this respect the present invention differs principally from the other brush-trimmer invented by me, and for which I make a patent application at the same time with this; for in my other trimmer, as long as the cradle is not used, I employ a "fork" or brush-holder, whose slot is in line with its direction of motion; while in the present case the slot of the brush-holder is at right angles to its direction of motion. Thereby only can the concavity in the length of the brush be produced. The invention also consists in the combination of the brush-cradle described in my other application with the convex cutters, for trimming a brush concave lengthwise, but convex laterally.

In the accompanying drawing, the letter A represents the frame of the machine. B is the transverse shaft hung therein, and carrying the cutters C C. These cutters have convex cutting-edges, as is clearly shown in Figs. 1 and 2. D D are two rails, secured lengthwise over the frame, and made vertically adjustable thereon. E is the brush-carrier, in form of a plate, long enough to rest on and between the rails D D, in manner shown in Fig. 1, and slotted transversely. F is the top plate of the frame, arched in conformity to the curve of the cutting-edges, and made to extend within close proximity to the cutters.

The brush G is fitted through the slot of the brush holder or carrier E, in manner shown in Fig. 2, and is then moved along the rails and exposed to the action of the revolving knives, which cut it concave in the direction of its length, as is also shown in Fig. 2. In the direction of its width the brush will be cut straight. If it is, however, desired to cut the brush convex in the direction of its width, I remove the rails D and substitute therefor the cradle H, which is fully described in my other application, and insert the brush in the cradle, rocking the latter, so as produce a convex cut laterally, and a concave cut lengthwise, on the brush.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the revolving convex cutters C, with the transversely-slotted lengthwise-moving brush-holder E, substantially as and for the purpose herein shown and described.

2. The combination of the brush-cradle H with the convex cutters C, substantially as herein shown and described.

JABEZ STONE.

Witnesses:
JNO. H. DENNIS,
EDWARD J. BURGESS.