

No. 744,389.

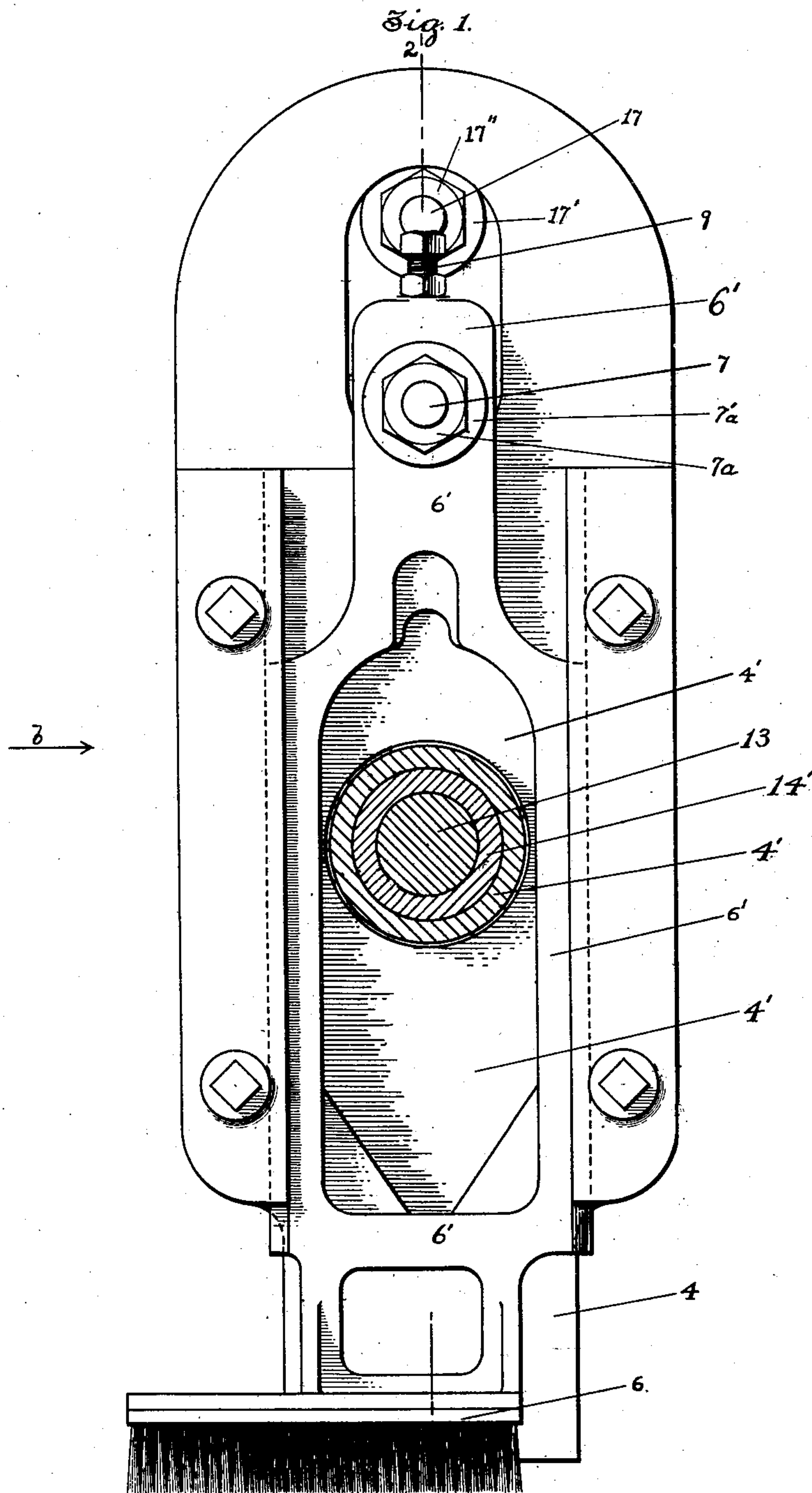
PATENTED NOV. 17, 1903.

A. J. O'REILLY.
COMB DABBING BRUSH MECHANISM.

APPLICATION FILED MAY 19, 1903.

NO MODEL.

2 SHEETS—SHEET 1



Witnesses
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2

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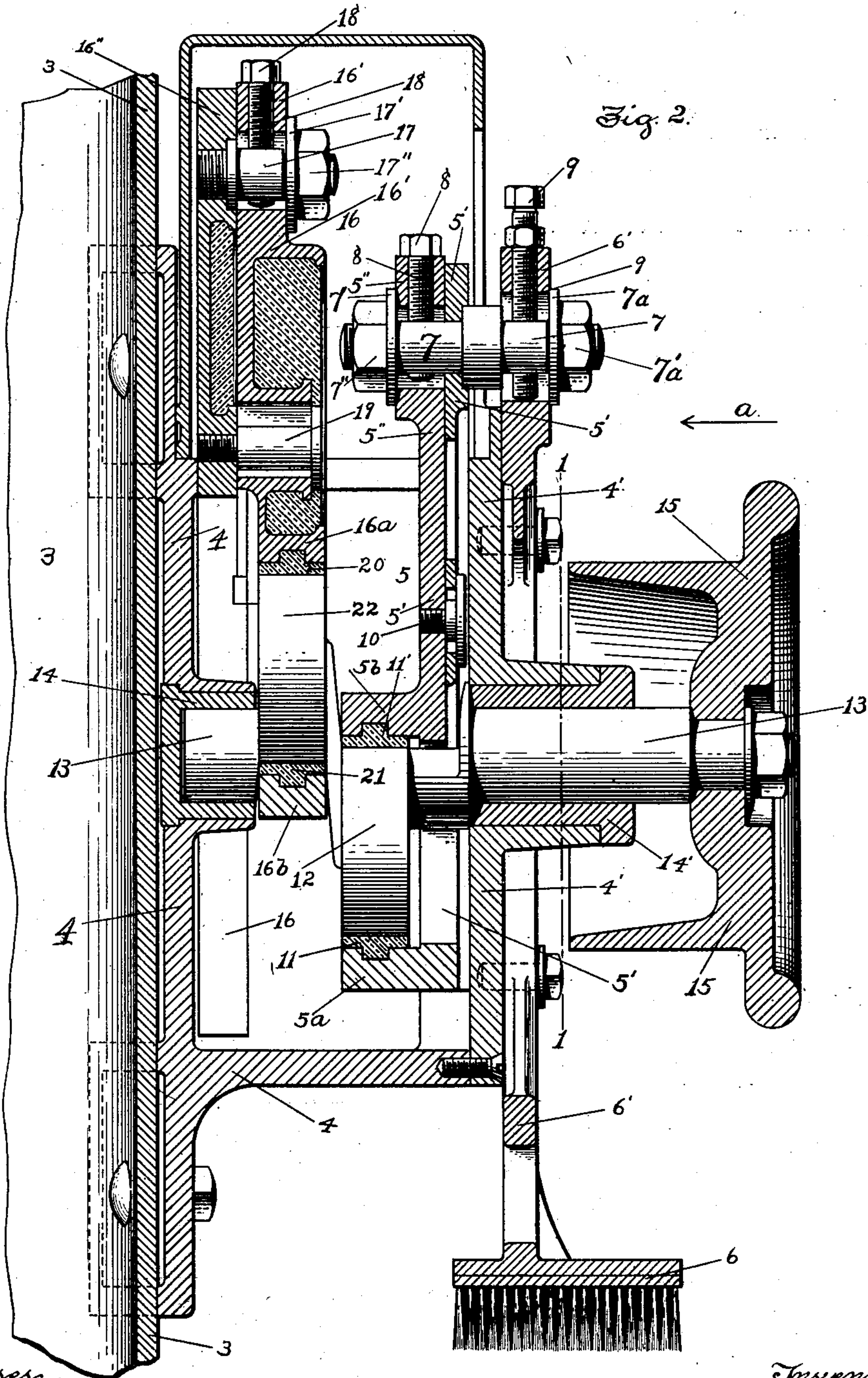
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UNITED STATES PATENT OFFICE.

ANTHONY J. O'REILLY, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO
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COMB-DABBING BRUSH MECHANISM.

SPECIFICATION forming part of Letters Patent No. 744,389, dated November 17, 1903.

Application filed May 19, 1903. Serial No. 157,775. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY J. O'REILLY, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Comb-Dabbing Brush Mechanism, of which the following is a specification.

My invention relates to comb-dabbing brush mechanism, and more particularly to an improvement on the comb-dabbing brush mechanism shown and described in United States Letters Patent to Clarkson, No. 609,385, dated August 16, 1898. It has been found in practice in the comb-dabbing brush mechanism of said patent that there is an excessive vibration of the dabbing-brush and by reason of the great speed at which the brush is operated (many hundred reciprocating movements a minute) that this vibration and jar of the brush is very objectionable.

The object of my invention is to do away with the excessive vibration of the dabbing-brush.

In my improved mechanism for operating the dabbing-brush I employ a second eccentric on the driving-shaft and a vertically-moving weighted slide operated by said eccentric to act as a counterbalance-weight for the ordinary carrier of the dabbing-brush, as will be hereinafter described.

My invention consists in certain novel features of construction of my improvements, to be hereinafter described.

I have shown in the drawings the dabbing-brush mechanism shown and described in said Patent No. 609,385, with my improvements combined therewith.

Referring to the drawings, Figure 1 is a front elevation of the dabbing-brush mechanism at the rear of line 1 1, Fig. 2, looking in the direction of arrow *a*, same figure; and Fig. 2 is a central vertical section on line 2 2, Fig. 1, looking in the direction of arrow *b*, same figure, the belt-pulley being shown in this figure.

In the accompanying drawings, 3 is a portion of the stationary frame of a wool-comb-
ing machine.

4 is a frame bolted to the frame 3 and sup-

porting the dabbing-brush-operating mechanism. The frame 4 has suitable vertical guideways (indicated by broken lines in Fig. 1) for the shank 6' of the dabbing-brush 6.

The dabbing-brush carrier 5 consists of the two members 5' and 5''. A bolt 7 extends through and is fast in an opening in the upper part of the member 5' of the carrier 5, and the inner end of said bolt extends loosely through an elongated opening in the upper part of the member 5''. (See Fig. 2.) The inner end of the bolt 7 has a washer 7' thereon and a nut 7''. An adjusting-screw 8 is tapped through the bolt 7 and turns in the upper end of the member 5' to adjust the vertical position of said member relatively to the member 5'. The nut 7'' is loosened or turned off during the adjusting operation and then turned on or tightened. The outer end of the bolt 7 extends loosely through an elongated opening in the upper end of the shank 6' of the dabbing-brush 6, and there is a washer 7^a on the outer end of said bolt and also a nut 7^a', as shown in Fig. 2. An adjusting-screw 9 is tapped through the bolt 7 and turns in the upper end of the shank 6' to adjust the vertical position of the shank 6' and brush 6 relatively to the carrier 5. The nut 7^a' is loosened or turned off during the adjusting operation and then turned on or tightened. A headed stud 10 extends through a vertical slot in the member 5' and is screwed into the member 5'' to hold the members 5' and 5'' together. The member 5' has an offset 5^a, which is grooved to receive the outer surface of the shoe 11, and the member 5'' has a corresponding offset 5^b, also grooved to receive the shoe 11'. Extending between the shoes 11 and 11' and partially embraced thereby is an eccentric 12 on the shaft 13, which shaft has bearings in boxes 14 and 14', supported, respectively, on the frame 4 and on the plate 4', secured to said frame 4. A belt-pulley 15 is fast on the front end of the shaft 13.

All of the above-described parts are of substantially the same construction and operation as similar parts shown and described in said Patent No. 609,385.

I will now describe my improvements or

supplemental mechanism combined with the parts of the dabbing-brush-operating mechanism above described.

A vertically-moving slide 16, consisting of 5 two members 16' and 16'', has suitable guide-ways on the frame 4 and is located back of the carrier 5. A bolt 17 is fast at its inner end in the upper part of the member 16'' and at its outer end extends loosely through an 10 elongated opening in the upper part of the member 16'. The bolt 17 has a washer 17' thereon and a nut 17'' thereon. An adjusting-screw 18 is tapped through the bolt 17 and turns freely in a hole in the upper end 15 of the member 16' to adjust the vertical position of said member relatively to the member 16''. The nut 17'' is turned off or loosened during the adjusting operation and then turned on or tightened. A headed stud 19 20 extends loosely through a hole in the member 16' and is screwed into the member 16'' to hold said members together. The member 16' has an offset 16^a thereon, having a groove therein to receive the shoe 20. The member 25 16'' also has an offset 16^b thereon, which is grooved to receive the shoe 21. Extending between the shoes 20 and 21 and partially embraced thereby is an eccentric 22 on the shaft 13, said eccentric extending in an oppo- 30 site direction from the eccentric 12 on said shaft. The members 16' and 16'' of the slide 16 are weighted, as indicated by hatched lines. By means of the weighted slide 16,

connected with the second eccentric 22 on the shaft 13, a counterbalance is provided and 35 the excessive vibration of the dabbing-brush is done away with, as will be readily understood by those skilled in the art.

It will be understood that the details of construction of my improvements may be 40 varied, if desired.

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

1. In a comb-dabbing brush mechanism, 45 the combination with a driving-shaft, an eccentric thereon, a dabbing-brush, and connections intermediate said eccentric and dabbing-brush, of a second eccentric on said shaft, two shoes to bear on said eccentric, a 50 vertically-moving weighted slide, comprising two members relatively adjustable, and each member connected with one of said shoes, substantially as shown and described.

2. In a comb-dabbing brush mechanism, 55 the combination with a driving-shaft, an eccentric thereon, a dabbing-brush, and connections intermediate said eccentric and dabbing-brush, of a second eccentric on said shaft, a vertically-moving weighted slide con- 60 nected with and operated by said eccentric, substantially as shown and described.

ANTHONY J. O'REILLY.

Witnesses:

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