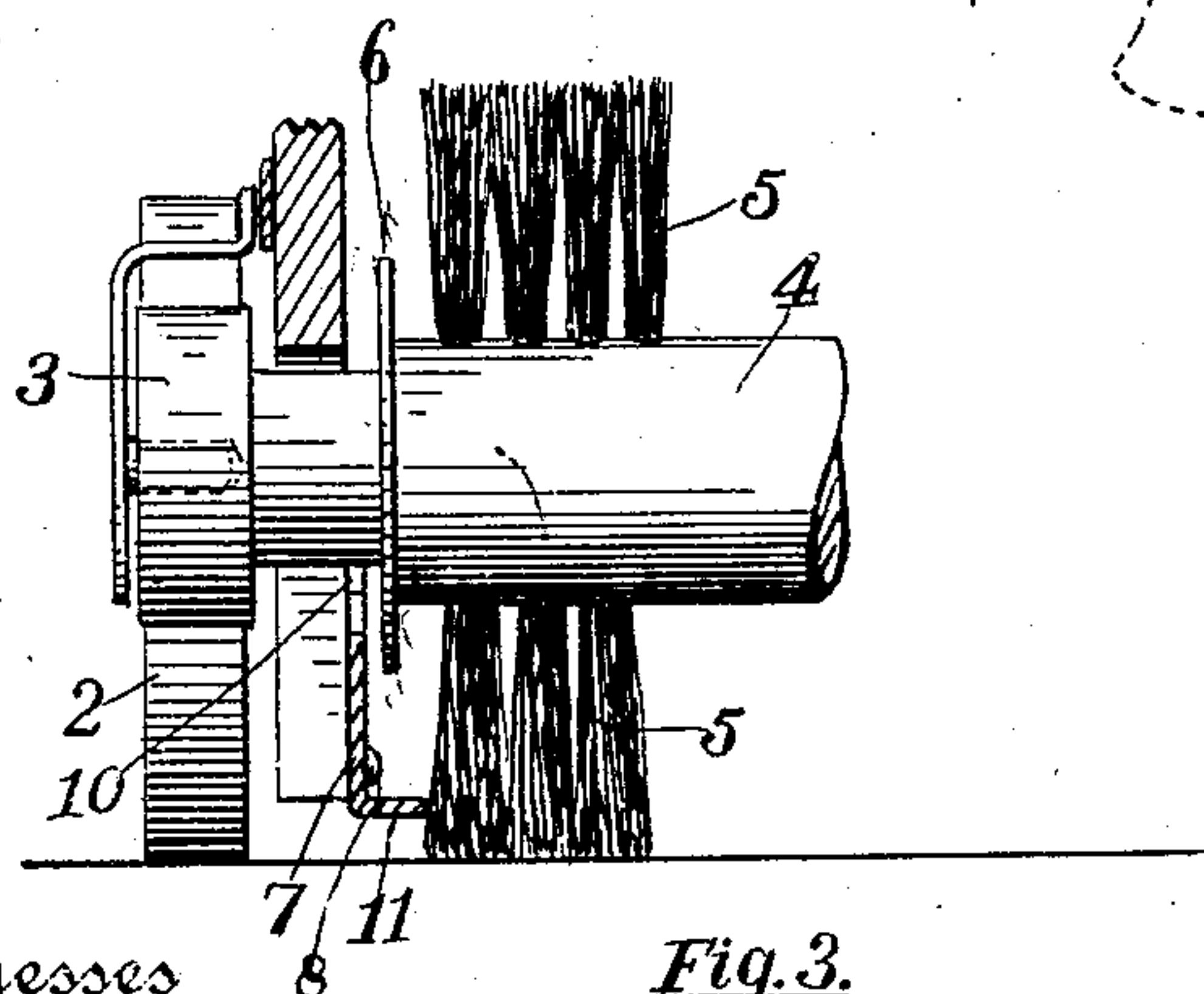
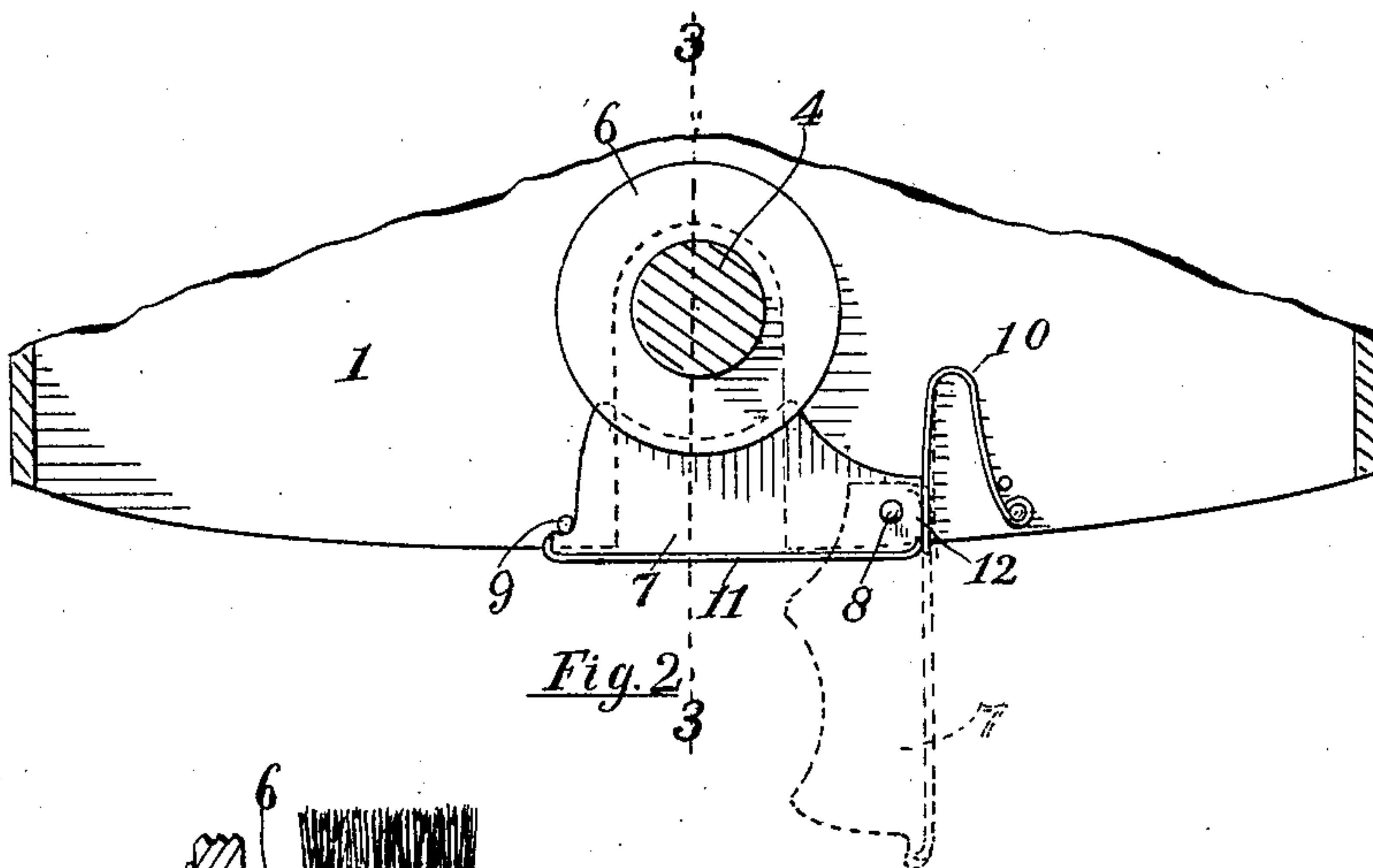
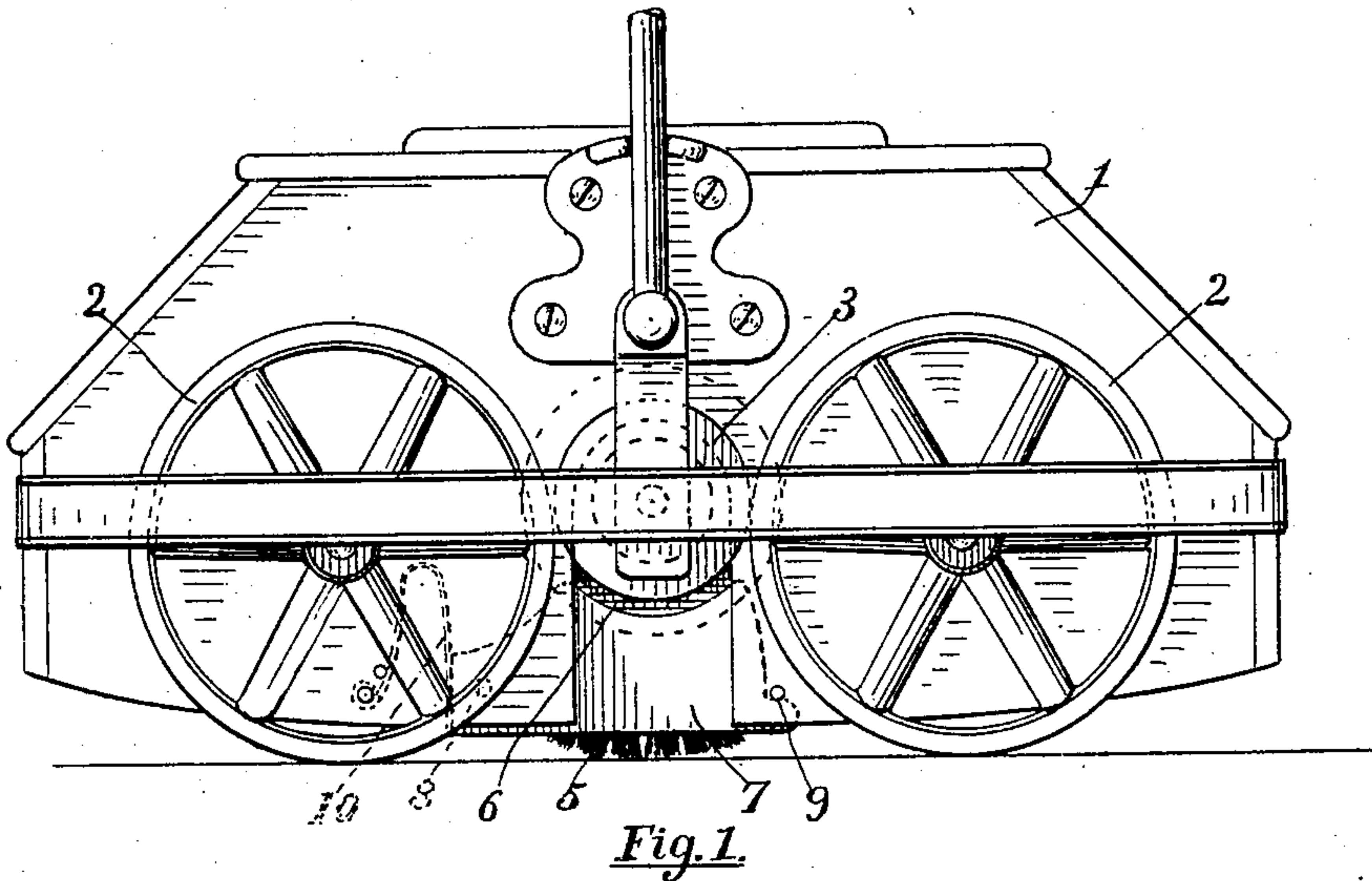


No. 860,534.

PATENTED JULY 16, 1907.

A. A. DENNIS.  
CARPET SWEEPER.  
APPLICATION FILED JULY 27, 1906.



Witnesses  
Palmer Jones.  
Georgiana Chace

Fig. 3.

Inventor  
Alfred A. Dennis  
By Luther V. Moulton  
Attorney

# UNITED STATES PATENT OFFICE.

ALFRED A. DENNIS, OF GRAND RAPIDS, MICHIGAN.

## CARPET-SWEEPER.

No. 860,534.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed July 27, 1906. Serial No. 328,107.

*To all whom it may concern:*

Be it known that I, ALFRED A. DENNIS, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to improvements in carpet sweepers and more particularly to a device for preventing strings, ravelings, hair and like materials from winding into the brush bearings, and it consists essentially in a plate pivoted to the case and adapted to close the end openings in the case which are provided for removing and inserting the brush and in various other new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:

20 Figure 1. is an end elevation of a carpet sweeper with my device attached; Fig. 2. a detail in elevation of the inside of an end of a sweeper case with my improvement attached, showing the same in operative position, and showing in dotted lines the position when removing the brush; and, Fig. 3. a detail in vertical section taken on the line 3—3 of Fig. 2.

Like numerals refer to like parts in all of the figures.

30 1 is the ordinary case of a carpet sweeper having slots or recesses in its ends through which the brush trunnions extend; 2 the carrying wheels; 3 the friction wheel of the brush roller, engaged by the wheels 2 and driven thereby; 4 the brush roller; 5 the brush bristles.

35 As thus far described, the device is an ordinary type of carpet sweeper and constitutes no part of my invention.

40 6 is an annular disk mounted on the brush roller adjacent to the bristles; 7 is a plate extending across the brush recess in the case, and having an inwardly

turned flange 11 extending beneath the disk 6, said plate being pivoted to the case at 8 and engaging a stop 9 on the case, and held in or out of operative position by the spring 10 engaging the square end 12 of the plate 7, and pressing thereon to hold the plate in closed position, and engaging and pressing on the face thereof to hold the plate in open position.

The operation of my device is as follows: When a string, or material of like nature, is picked up by the brush, the flange 11 of the plate 7 guides it so that if wound up at all it will be wound on the brush. The annular disk 6 then prevents its sliding outward toward the friction mechanism and it is thus effectually prevented from fouling with the friction wheel or the brush journals.

What I claim is—

1. In a carpet sweeper, in combination with a brush and a case having a brush recess in its end, a plate pivoted on the case and adapted to span said recess, and means for holding said plate in either closed or open position.

2. In a carpet sweeper, the combination of a brush and a case having brush recesses in its ends, a plate spanning said recess and pivoted to the case at one end, a stop on the case engaged by the other end of the plate and a spring adapted to hold said plate in either open or closed position.

3. In a carpet sweeper, in combination with a brush and a case having a brush recess in its end, an annular disk mounted on the brush roller between the bristles and the end of the case a pivoted plate spanning the recess in the case and having an inwardly turned flange, a stop on the case, and a spring to hold the plate in contact with the stop.

4. In a carpet sweeper, in combination with a brush and a case having brush recesses in its ends, an annular disk mounted on the brush roller, removable means for closing the lower parts of the recesses, and a flange on said means and extending beneath the disk.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED A. DENNIS.

Witnesses:

PALMER A. JONES,  
LUTHER V. MOULTEN.