

C. A. SMITH.
CARPET SWEEPER.
APPLICATION FILED JAN. 7, 1909.

Patented Apr. 27, 1909.

919,479.

Fig. 1.

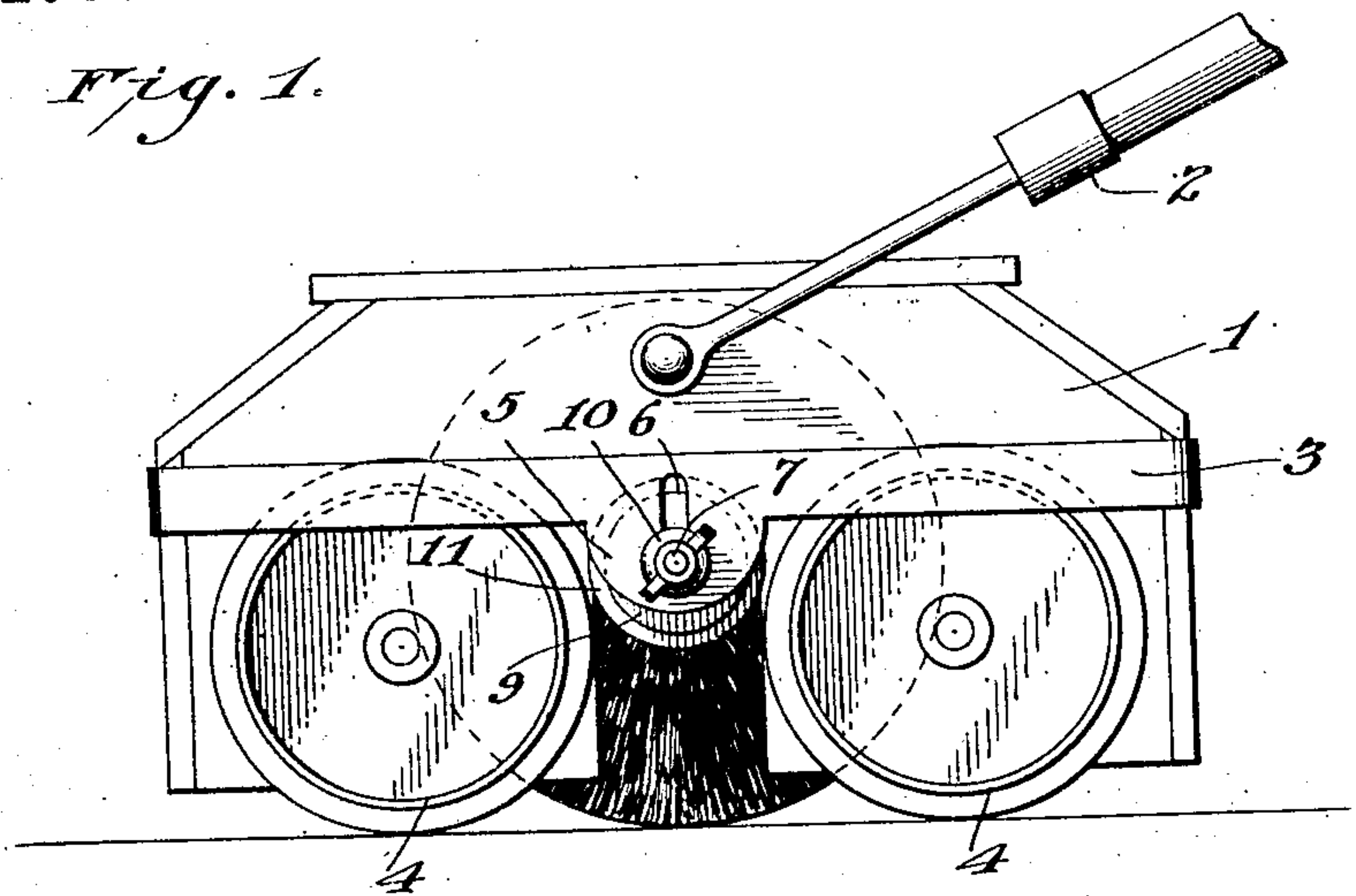


Fig. 2.

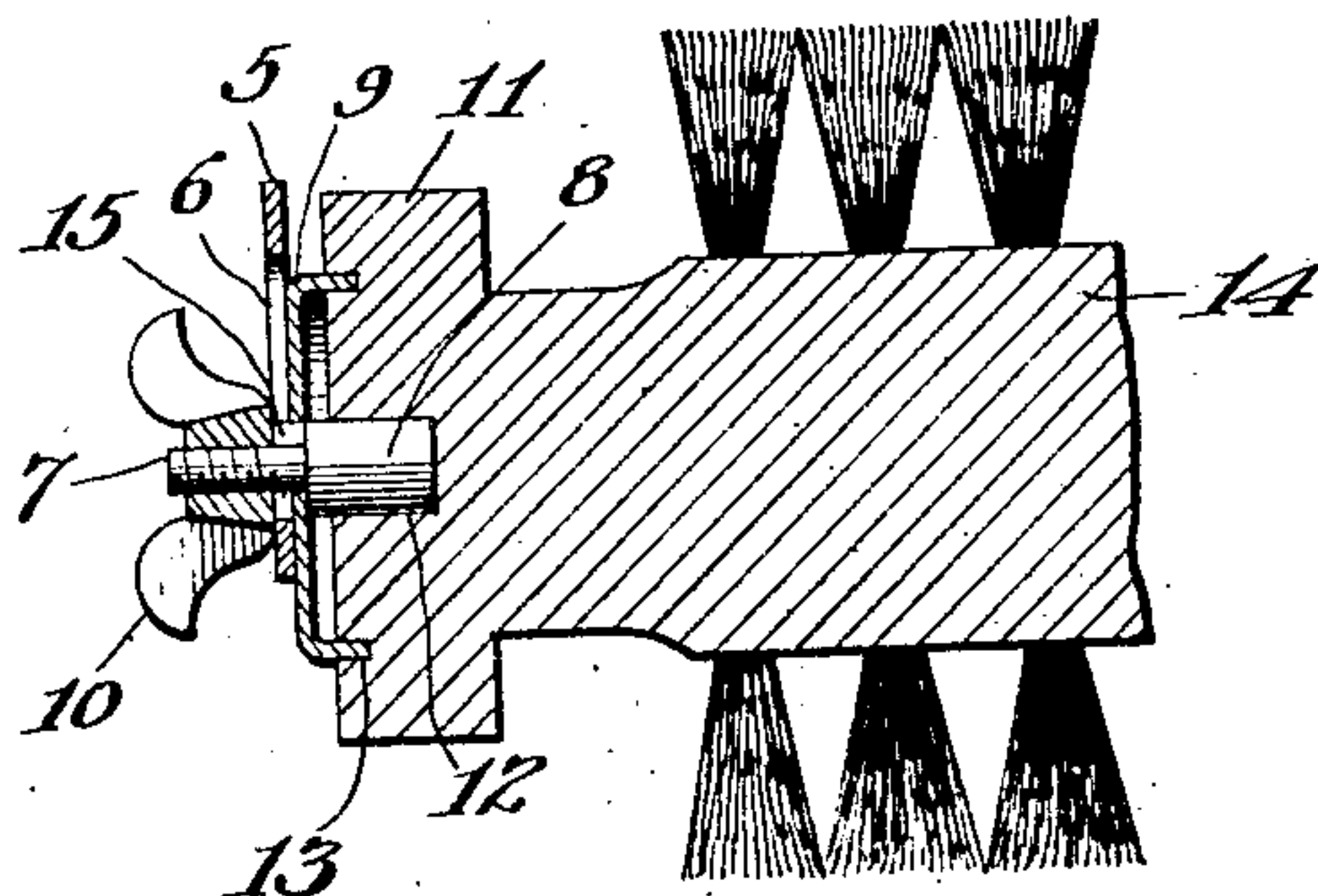


Fig. 4.

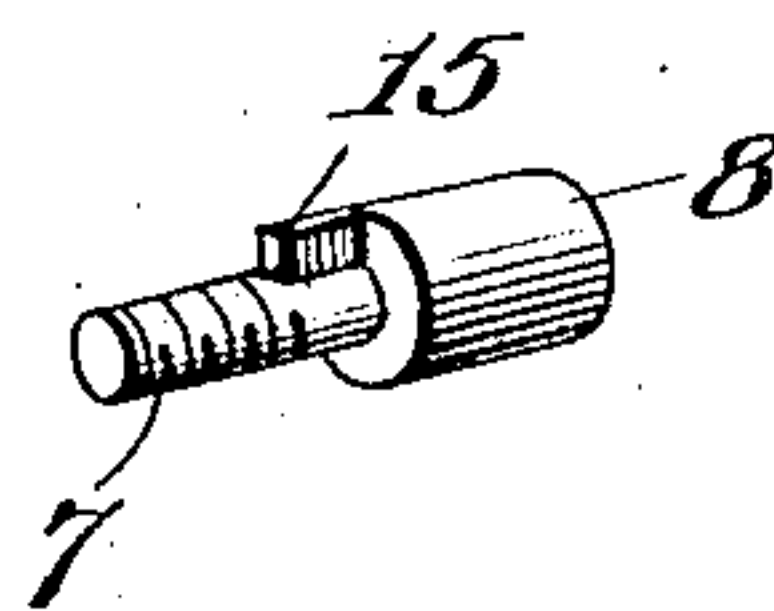
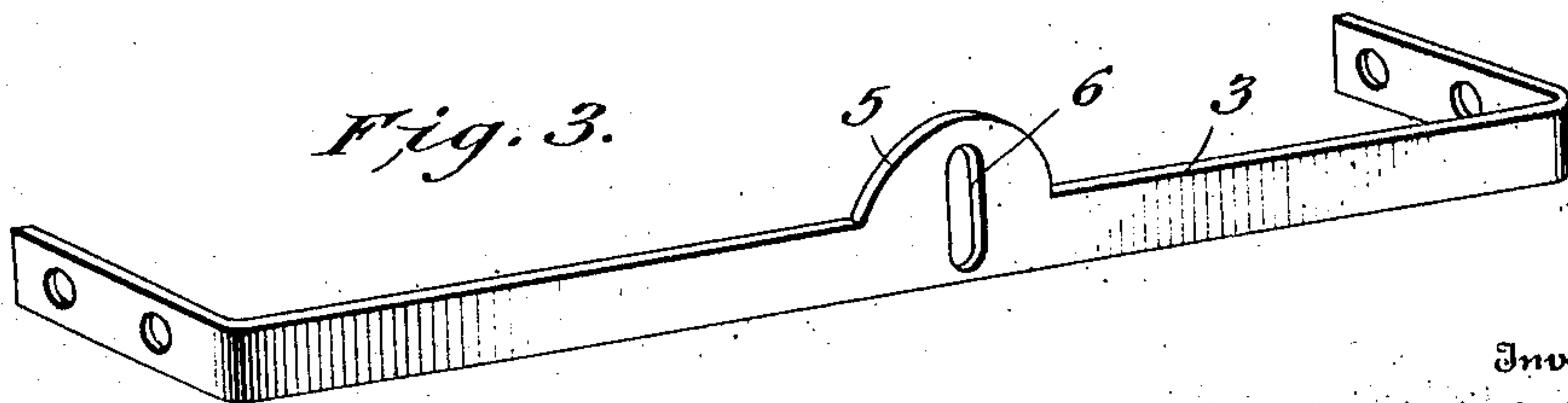


Fig. 3.



Inventor

Christopher A. Smith

Witnesses

M. C. Lyddane,
J. A. S. Mulhall.

By

Joshua R. T. Pitts,

Attorney.

UNITED STATES PATENT OFFICE.

CHRISTOPHER A. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

CARPET-SWEEPER.

No. 919,479.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed January 7, 1909. Serial No. 471,041.

To all whom it may concern:

Be it known that I, CHRISTOPHER A. SMITH, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Carpet-Sweepers, of which the following is a specification.

My invention relates to improvements in carpet sweepers, the object of the invention being to provide an improved mounting for the rotary brush, which enables the brush to be adjusted vertically to compensate for wear of the brush, and hence lengthen the life and utility of the brush, as it enables the latter to do effective sweeping after it has become worn.

A further object is to provide an improved bearing for the end of the brush, which can be adjusted vertically in the carpet sweeper frame, to so position the brush when it wears, that it will firmly engage the floor and do effective work.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations, and arrangement of parts as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings Figure 1, is a view in end elevation of a carpet sweeper, illustrating my improvements. Fig. 2, is an enlarged view in longitudinal section through one end of the brush and its journal bearing. Fig. 3, is a detail perspective view of a frame, and Fig. 4, is a perspective view of a journal.

1 represents the box of the carpet sweeper, having the ordinary handle 2, and 3 is an end frame, which is secured to the box 1 in any approved manner, and wheels 4 are mounted between the frame 3 and box 1, as is customary in carpet sweepers in general use.

The construction of the sweeper at both ends is precisely alike, and the following description of one end will apply alike to both. The frame 3 at its center is extended downwardly as shown at 5, and made with a vertical slot 6 to receive the threaded smaller end 7 of a cylindrical journal 8. This threaded portion 7 of the journal, is also passed through a central opening in a cup bearing 9, and has a lug or key 15 projecting through the bearing 9, and into slot 6, preventing rotary movement of the jour-

nal 8 and bearing 9. A thumb nut 10 is screwed onto the journal and against the frame 3 to securely clamp the journals against movement. The frictional wheel portions 11 at the ends of the brush are made with central bearing sockets 12, into which the journals 8 project, and are also made with circular groove 13 concentric with the socket or recess 12 to receive the cup bearing, hence affording double bearing at both ends of the brush, which latter is given the reference numeral 14. By reason of the construction above described, if the socket or recess 12 becomes worn, the cup bearing will prevent wobbling, and vice versa, and this form of bearing also insures a perfect hold of the brush when adjusted by means of the thumb nut 10 and journal 8 as above explained.

Various slight change might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

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

In a carpet sweeper, the combination with an end frame having a vertical slot therein, and a rotary brush having a central recess in its end, and a circular groove in its end concentric with said recess, of a cup bearing projecting into the circular groove, a journal bearing projecting into the central recess and having a restricted screw threaded extension projecting through an opening in the cup bearing, and through the slot in the frame, a lug or key on said extension projecting through the cup therein and into the slot, preventing rotary movement of the journal, a thumb nut on said extension securely clamping the frame between the thumb nut and the cup bearing and securely clamping the journal against the cup bearing.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHRISTOPHER A. SMITH.

Witnesses:

S. W. FOSTER,
R. H. KRENKEL.