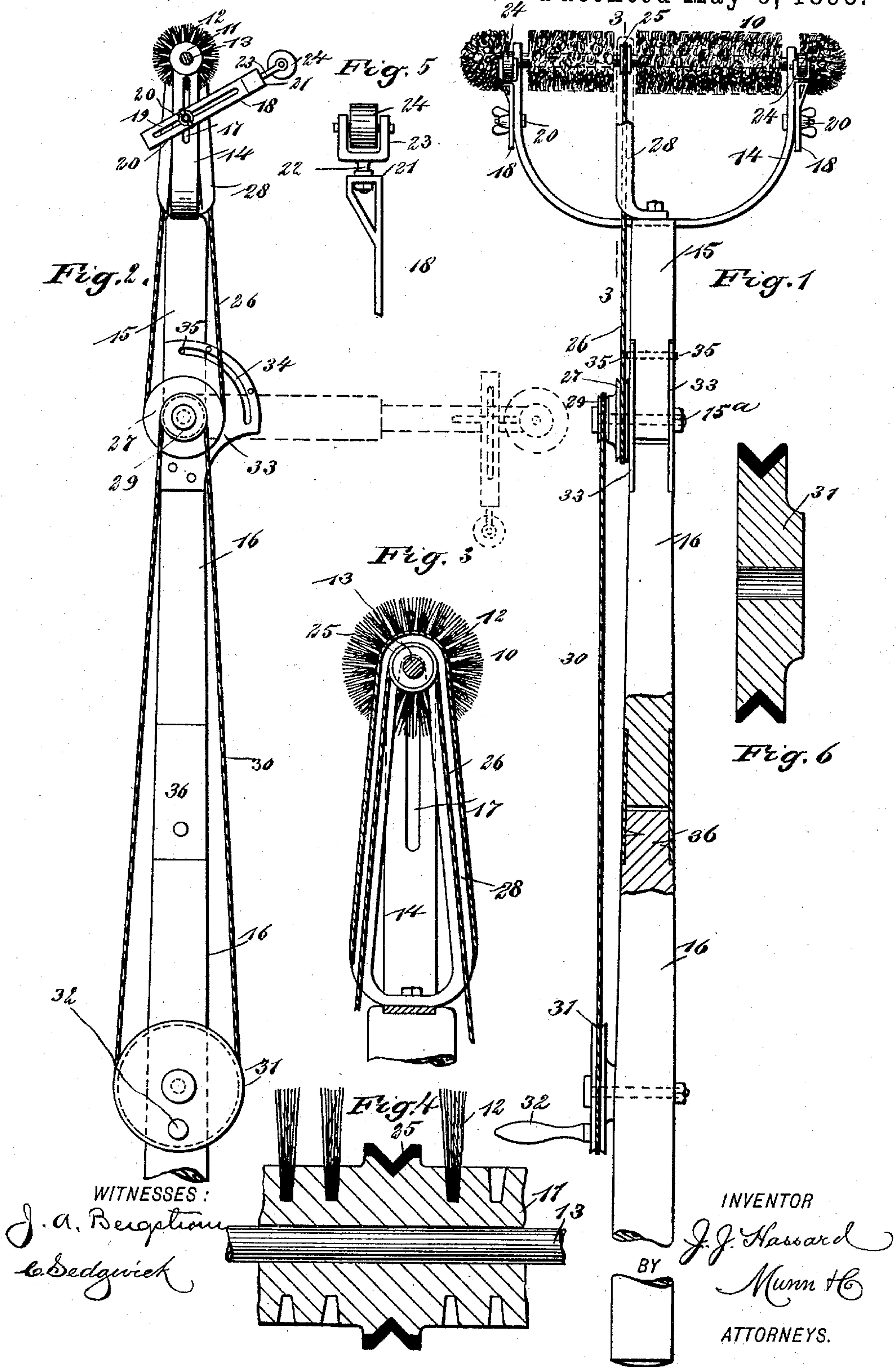


(No Model.)

J. J. HASSARD.
DUST BRUSH.

No. 497,175.

Patented May 9, 1893.



UNITED STATES PATENT OFFICE.

JOHN J. HASSARD, OF HARRISON, NEW JERSEY.

DUST-BRUSH.

SPECIFICATION forming part of Letters Patent No. 497,175, dated May 9, 1893.

Application filed April 11, 1892. Serial No. 428,654. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. HASSARD, of Harrison, in the county of Hudson and State of New Jersey, have invented a new and Improved Dust-Brush, of which the following is a full, clear, and exact description.

My invention relates to improvements in dust brushes, and the object of my invention is to produce a brush which may be brought into several different positions, may be conveniently moved along the ceiling of a room or up the walls of the same, and which may be conveniently rotated so that it will rapidly clean the walls.

To this end my invention consists in a dust brush, the construction of which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken front elevation of the brush with parts in section. Fig. 2 is a broken side elevation of the same. Fig. 3 is an enlarged section on the line 3—3 in Fig. 1. Fig. 4 is a broken enlarged detail sectional view of the brush proper. Fig. 5 is a detail view of one of the guide arms and rollers; and Fig. 6 is a detail sectional view of one of the pulleys.

The brush proper 10 comprises a core 11, projecting bristles 12, secured in the face of the core, and a shaft 13 to which the core is fixed. This shaft is journaled in a fork 14 held on the upper joint 15 of a pole or handle which is made of detachable sections 16, the joint 15 being pivoted to swing on a pin or bolt 15^a. The fork 14 is slotted longitudinally near its free ends at 17, to provide for adjusting the guide arms 18 which are also slotted longitudinally as shown at 19, and the arms are held to the fork by thumb screws 20. The arms 18 are arranged on opposite sides of the fork and are adapted to extend upward above the brush or a little to one side of the same, and the rollers carried by the arms serve as guides for the brush and hold it at the right distance from the walls. The arms 18 terminate at their upper ends in right angled bends 21 in which are journaled the shanks 22 of

the forks 23, which forks carry the guide rollers 24 which are adapted to run upon the walls of a building and which are preferably provided with rubber tires to prevent them from injuring the walls.

The brush 10 is provided with a pulley 25 which is grooved as shown in Fig. 4, and which is preferably rubber lined so that its driving belt will get a good grip upon it. Over this pulley runs a belt 26 which connects with a pulley 27 journaled at the base of the swinging joint 15 of the handle. The outer end portion of the belt 26 and the pulley 25 are inclosed in a case 28 as best shown in Fig. 3, and this case prevents the bristles of the brush from getting under the belt and between it and the pulley. A pulley 29 is held to the outer side of the pulley 27 and this pulley is driven by a belt 30 which runs over a pulley 31 near the base of the pole or handle, and this latter pulley 31 is provided with a crank handle 32 by means of which it may be turned and the brush 10 rotated. The swinging joint 15 of the handle is held at its base between guide plates 33 which are fixed to the adjacent portion of the handle and the guide plates are provided near their outer ends with curved slots 34 which receive pins 35, projecting from the sides of the joint 15 and the plates and pins thus hold the joint in position and prevent it from moving laterally. The several joints 16 of the pole or handle are connected by sleeves or sockets 36, the sleeves being secured to one joint and adapted to inclose the end of an adjacent joint. In this way the handle may be made of any desired length and different lengths of belts 30 may be used if necessary.

To operate the brush, the brush proper 10 is pushed along a ceiling or wall to be cleaned, with the guide rollers 24 running upon the wall or ceiling, and the crank handle 32 is revolved, thus driving the belts 30 and 26 and imparting a rapid rotary motion to the brush 10. It will be seen that the brush 10 may be swung so as to bring it into any desired position, and the corners of a room or the parts between the rafters of a building may be easily cleaned out.

Having thus fully described my invention,

I claim as new and desire to secure by Letters Patent—

1. A dust brush comprising a handle, a
5 revoluble brush journaled on one end of the
same, and guide arms projecting adjacent to
the brush, said arms having rollers at their
outer ends, substantially as described.

2. The combination with the slotted yoke
and the brush journaled therein, of the slotted

guide arms and the set screws extending to
through the arm and yoke slots to adjust the
arms vertically or longitudinally at any de-
sired angle, substantially as set forth.

JOHN J. HASSARD.

Witnesses:

ROBERT V. DONAGHUE,
MARY FOX.