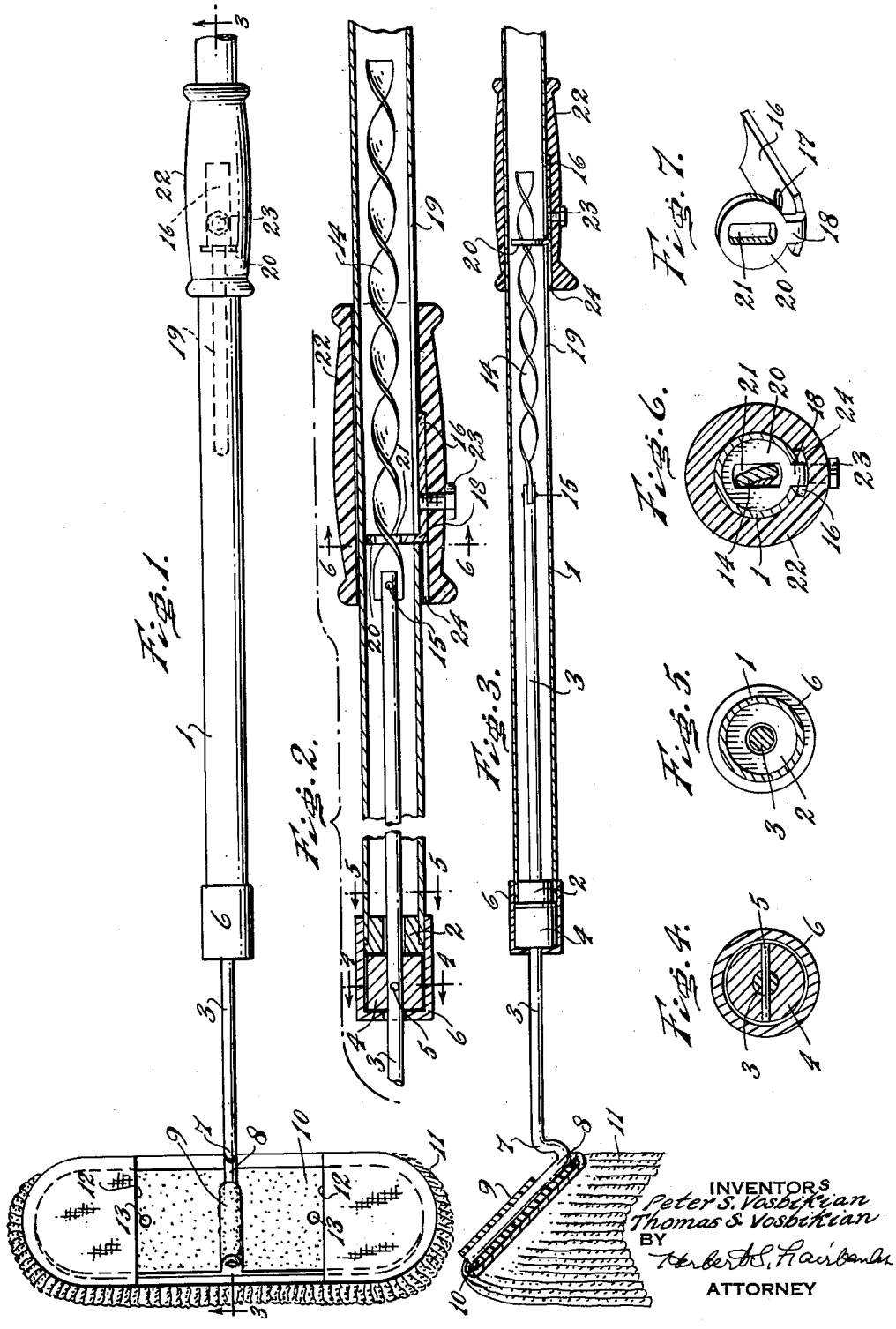
June 26, 1962 P. S. VOSBIKIAN ETAL 3,040,356

DUST MOPS WITH MEANS TO MANUALLY SPIN THE MOPHEAD

Filed June 29, 1960



INVENTORS
Peter S. Vosbikian
Thomas S. Vosbikian
BY
Herbert S. Fairbanks
ATTORNEY

United States Patent Office

3,040,356

Patented June 26, 1962

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3,040,356

DUST MOPS WITH MEANS TO MANUALLY SPIN THE MOPHEAD

Peter S. Vosbikian, Melrose, and Thomas S. Vosbikian, Philadelphia, Pa. (both of 20th and Oxford Sts., Philadelphia, Pa.)

Filed June 29, 1960, Ser. No. 39,505

2 Claims. (Cl. 15—147)

The object of this invention is to devise a novel dust mop with novel means to spin the mophead back-and-forth to remove from it the collected dust and dirt.

A further object is to mount the actuating shaft so that it is free to revolve within a handle, and to mount in and on the handle a novel slide having means to receive and actuate the actuating shaft when the slide is reciprocated by a sleeve on the handle.

With the foregoing and other objects in view as will hereinafter clearly appear, our invention comprehends a novel dust mop with novel means to spin back-and-forth the mophead to remove therefrom the collected dust and dirt.

For the purpose of illustrating the invention, we have shown in the accompanying drawings a preferred embodiment of it which we have found in practice to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized, and the invention is not limited, except by the scope of the appended claims, to be exact arrangement and organization of these instrumentalities as herein set forth.

FIGURE 1 is a top plan view of a novel dust mop with spinning means embodying our invention.

FIGURE 2 is a sectional elevation of a portion of the mop on an enlarged scale.

FIGURE 3 is a sectional elevation showing the slide and grasping sleeve in their rearward positions.

FIGURE 4 is a section on line 4—4 of FIGURE 2.

FIGURE 5 is a section on line 5—5 of FIGURE 2.

FIGURE 6 is a section on line 6—6 of FIGURE 2.

FIGURE 7 is a perspective view of the slide.

Similar numerals of reference indicate corresponding parts.

Referring to the drawings:

The mop has a tubular handle 1, the front end of which is closed by a bushing 2 fixed therein for example by a driving fit and apertured to receive with a clearance an actuating rod 3. A bearing in the form of collar 4 is fixed by a pin 5 on the rod 3 to revolve with it, and the collar is contained within a cap 6 apertured to permit the rod 3 to pass therethrough.

The rod 3 at its forward portion has an angle bend 7 and terminates in a straight stretch 8 free to revolve in a tube 9 extending laterally cross a backing plate 10, preferably of plastic, and having its ends slipped into pockets 12 of a cleaning head 11, which may be of the strand type. The backing 10 may have apertures 13 to adapt it for connection with other types of cleaning heads.

The rear end of the rod 3 is fixed to a spirally formed strip 14 by fastening devices 15. A slide 16 in the form of a longitudinally extending strip partly curved in cross-section to ride on the outer periphery of the handle has a downwardly deflected portion to provide a neck 18 which travels in a longitudinally extending slot 19 in the handle 1, and terminates in a disc 20 having a rectangularly shaped aperture 21 to receive the spiral or helical strip 14. A sleeve 22 is fixed to the slide 16 by a fastening device 23 in threaded engagement with the opening 17 in the slide. The inner bore of the sleeve has a groove 24 to receive the longitudinally extending portion of the slide.

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In the operation, when the handle sleeve 22 is moved forwardly the cleaning tool or mop head will be revolved in one direction, and when the sleeve is moved rearwardly the cleaning head will be revolved in a reverse direction thus removing the dust or dirt collected by the cleaning head. The mophead can be considered as including the head 11 and the backing plate.

It will be apparent that the rod is provided with the angle bend 7 so that when revolved in either direction it will strike the plate 10 and cause the head, backing plate and rod to revolve in unison with each other.

Since the cleaning head and backing member are free to revolve on the actuating rod and the rod has an angle bend to cause it to strike the backing member, a combined spinning and shaking is imparted to the cleaning head.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. A dust mop comprising a tubular handle closed at its front end with an aperture through such closed end, a cap secured to the front end of the handle and forming a chamber between the front end of the handle and the closed end of the cap and having an aperture through the closed end of the cap, a rod extending through said apertures into the handle, a bearing within said chamber and fixed to the rod and preventing relative longitudinal movement of the rod and handle, a spiral strip connected at its front end to the rear end of the rod, said handle having a longitudinal slot alongside of said strip, a slide on the outer face of the handle having a neck guided in said handle slot and terminating within the handle in a disc having a slot to receive said strip and turn it on longitudinal movement of said slide, a sleeve on the handle connected with the slide to move it, and a mop head mounted on the front end of the handle.

2. The construction defined in claim 1, wherein said rod has an angle bend overlying the top face of the mop head, and terminates in a straight stretch, and the mop head has a tube portion in which said straight stretch is free to turn.

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