

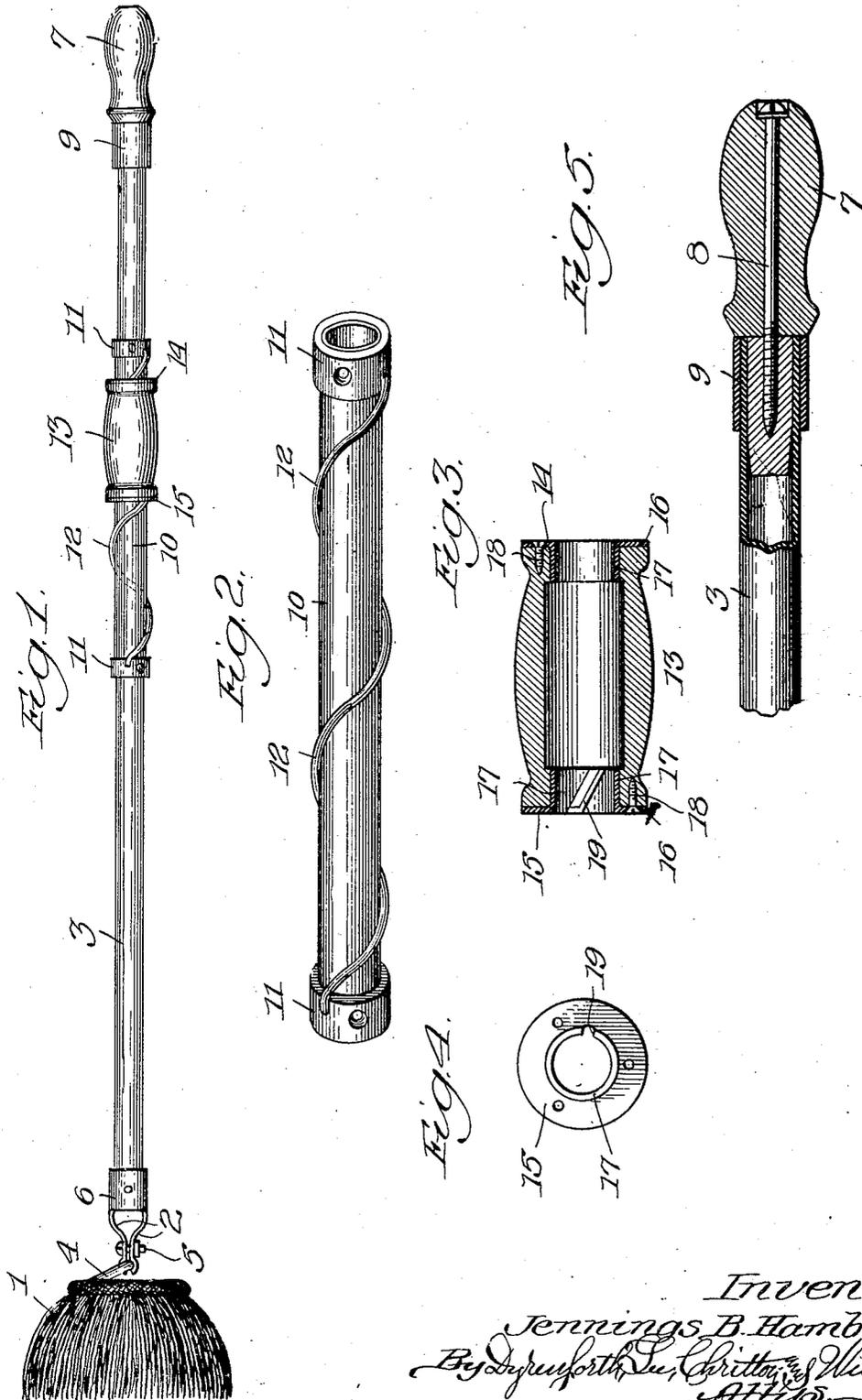
Aug. 11, 1931.

J. B. HAMBLLEN

1,818,948

MOP SHAKING DEVICE

Filed Sept. 10, 1928



Inventor,
Jennings B. Hamblen,
By *Dupuyorth, De, Critton, & Miles,*
Attorneys

UNITED STATES PATENT OFFICE

JENNINGS B. HAMBLÉN, OF WHITING, INDIANA, ASSIGNOR TO HAROLD V. ATWELL, VANDERVEER VORHEES, AND JENNINGS B. HAMBLÉN, TRUSTEES OPERATING UNDER THE NAME OF GENERAL ENGINEERING TRUST

MOP-SHAKING DEVICE

Application filed September 10, 1928. Serial No. 304,931.

This invention relates to mops and furbishing devices and more particularly to means for rotating such devices.

One of the primary objects of the invention is to provide a mop or furbishing device of simple and staunch construction which is equipped with an inexpensive mechanism for rotating the mop or other rubbing device so as to free it from dust or foreign particles or to whirl it in contact with the surface that is to be burnished. Another object of the invention is to provide a mechanism which will not only rotate the mop member but will rotate it alternately in different directions. Other objects and advantages will appear as the description proceeds.

The invention is fully described in the following specification and shown in the accompanying drawings, in which:

Figure 1 is a perspective view of a mop or furbishing device equipped with a mechanism illustrating one embodiment of my invention;

Figure 2 is an enlarged detailed view of a sleeve which forms part of the mechanism for rotating the mop device;

Figure 3 is a longitudinal vertical section of a grip handle which is adapted to cooperate with the sleeve mechanism in rotating the mop;

Figure 4 is a detailed view of an end piece which is applied to the grip handle; and

Figure 5 is a broken longitudinal sectional view of a rotatable end handle which is secured to the end of the mopstick.

In the illustration given, a mop member 1 is secured by means of clamping arms 2 to a mopstick or handle 3. The clamping arms 2 engage a portion of or extension of a mop ring 4 to which the strands of the mop are secured and are held in clamped position about the member 4 or extension thereof by means of a bolt 5. Formed integrally with the arms 2 is a perforated band member 6 which may be secured to the handle or stick 3 by screws, or other suitable means.

Rotatably secured to the other end of the mop handle or stick 3 is an end handle 7 which is preferably recessed at its outer end to receive the head of a screw 8. The por-

tion of the mop handle 3 adjacent the end handle 7 is preferably equipped with a ferrule 9.

At an intermediate point on the handle 3, at which the best balance of the implement is secured, the mechanism for rotating the device may be applied. This mechanism comprises, in its preferred form, a sleeve member 10 which is preferably formed of metal and which is provided at its extremities with perforated stop rings 11. Screws, or other suitable means, may be employed to secure the sleeve member 10 to the mopstick 3. Between the rings 11 a spiral wire 12 may be secured to the sleeve by solder or in any other suitable manner.

Journalled upon the metal sleeve 10 is a hollow grip handle 13 which is equipped at its ends with end plates 14 and 15. End plates 14 and 15 have an outer flanged portion 16 which is perforated and an inner tubular portion 17 which is adapted to engage the inner cylindrical surface of the grip member 13. The end plates 14 and 15 are preferably secured to the grip handle 13 by means of screws 18 which pass through the perforations in the flanges 16.

The grip handle 13 may be provided with any suitable mechanism for engaging the spiral wire or fin 12 of the sleeve member 10. In the illustration given, the member 15 is shown provided with a groove 19 in its tubular portion 17. If desired, both or only one of the end plates 14 and 15 may be equipped with grooves 19.

In the operation of the device, the mopstick is held by end-handle 7 and the grip handle 13. As the grip handle 13 is reciprocated along the metal sleeve 10, the mop handle 3 is caused to rotate and the mop 1 is whirled violently first in one direction and then in the reverse direction. Grip handle 13 and end handle 7 do not, of course, rotate during the shaking operation.

It will be observed that the grip handle 13 is stopped in its forward and rearward movements by the stop rings 11 and that the flanges 16 of the stop rings serve to protect the grip handle 13 from injury resulting from such contacts.

It will be apparent that the rapid gyratory movement of the mop strands and the sudden checking of such movement at the end of each forward and rearward stroke of the grip handle will not only separate the strands of the mop but will, by reason of the centrifugal force and the rapid reversal of movement, create a whipping action which will readily free the mop from dust or other accumulated waste material. Such action will also be of great value in furbishing or polishing a surface.

While I have shown in detail a particular mechanism by which mop 1 may be rotated in the manner described, it is clearly within the spirit of the invention to employ other equivalent means for accomplishing this result.

The construction described is durable and may be manufactured at moderate cost, the parts being capable of being conveniently assembled.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be construed therefrom, but the appended claims should be construed as broadly as permissible in view of the prior art.

What I regard as new and desire to secure by Letters Patent is:

1. A dust mop shaker of the character set forth, comprising a mop stick, a rotatable grip handle member secured to the top of said mop stick, a dust mop comprising relatively long mop strands secured to the lower end of said mop stick, a relatively short sleeve member enveloping said mop stick and provided at its extremities with stops and being also provided with a curved wire track, said sleeve member being releasably fixed on said mop stick, and an actuating member provided with means engaging the track upon said sleeve member.

2. In a device of the character set forth, an elongated mop stick, a grip handle rotatably secured thereto at one end, a dust mop equipped with strands having their outer ends free, a sleeve member enveloping said mop stick and equipped with stops, said sleeve member being releasably secured to said mop stick and being provided with a spiral track, and an actuating member adapted to be reciprocated along said sleeve, said actuating member being provided with a groove engaging the spiral track upon said sleeve member.

3. A device of the character set forth, comprising a mop stick, a grip handle associated therewith at one end, a mop attached thereto at the other end, a sleeve member on said mop stick and releasably fixed thereto, said sleeve member being provided with a spiral track, an actuating member associated with said sleeve member, and means on said actuating member cooperating with the track on

said sleeve member for rotating said mop stick.

In testimony whereof, I have hereunto set my hand this 5th day of September, 1928.

JENNINGS B. HAMBLIN.

70

75

80

85

90

95

100

105

110

115

120

125

130