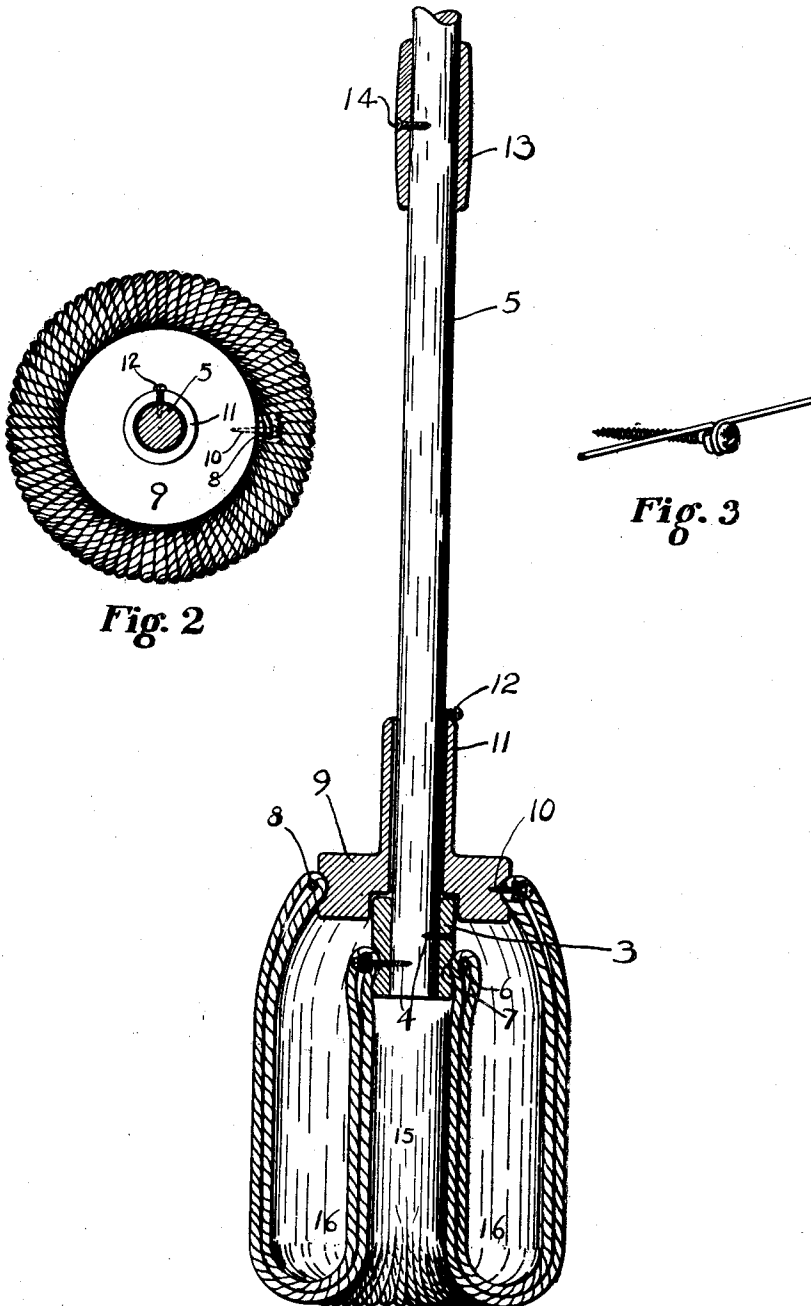


A. FISCHER, JR.  
 COMBINED MOP HEAD AND WRINGER.  
 APPLICATION FILED FEB. 13, 1909.

973,491.

Patented Oct. 25, 1910.



**Fig. 2**

**Fig. 3**

**Fig. 1**

Witnesses

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By

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# UNITED STATES PATENT OFFICE.

ALEXANDER FISCHER, JR., OF CHEVIOT, OHIO.

COMBINED MOP HEAD AND WRINGER.

973,491.

Specification of Letters Patent.

Patented Oct. 25, 1910.

Application filed February 13, 1909. Serial No. 477,542.

*To all whom it may concern:*

Be it known that I, ALEXANDER FISCHER, Jr., a citizen of the United States of America, and resident of Cheviot, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Combined Mop Heads and Wringers, of which the following is a specification.

This invention relates to mops and particularly to means for wringing out or manipulating the mop.

An object of this invention is the production of a mop in which simple and effective means are employed for attaching the yarn of the mop in place, and for wringing out the yarn without wetting the hands of the operator. This and other objects I attain in an apparatus embodying the features herein described, and illustrated.

In the drawings accompanying this application, and forming a part thereof, Figure 1 is a central vertical section of a mop embodying my invention. Fig. 2 is a plan view of Fig. 1. Fig. 3 is a perspective view illustrating the manner of securing the binding wire of the mop head.

The mop consists of a handle, to which one end of the yarn is attached, and a sleeve which encircles the handle, and to which the other end of the yarn is attached. The sleeve is loosely attached to the handle, is adapted to be held stationary in the hand of the operator while the handle is rotated to twist the yarn of the mop, and to thereby wring it out.

Referring to the drawings: A collar 3 is secured by means of screws 4 to the handle 5 of the mop. One end of each loop of yarn, which forms the mop proper, is secured to the collar 3 by means of a wire 6, which encircles the collar, and clamps the yarn into place on the collar, by being secured into a groove or depression 7 formed on the surface of the collar. The other end of each loop of yarn is attached in a similar manner by means of a wire 8 to a sleeve 9, which is loosely mounted on the mop handle 5 and which is located adjacent to the collar 3. The wire 8 is located in a depression or groove formed on the surface of the sleeve 9 and is secured in place by being looped around a screw 10. A cylindrical extension 11 is formed integrally with the sleeve 9, and extending upwardly along the mop handle 5, is adapted to be utilized as a hand-hold by the operator in wringing out the

mop. A stop 12, which may consist of a round headed screw, is mounted on the handle 5 and holds the sleeve 9 in place.

A collar 13, which may be of wood, or galvanized iron, is adapted to be secured in place on the mop handle 5, in a convenient position for the operator, by means of a screw 14.

During the mopping operation the yarn comprising the mop proper is located, relative to the mop handle, similar to the yarn of ordinary mops, and the mop will perform the ordinary functions, in the same manner as an ordinary mop. When it is required to wring or rinse the yarn composing the mop, the operator grasps the hand-hold formed by the extension 11 firmly in one hand, and by grasping the collar 13 and revolving the mop handle with the other hand, twists the yarn composing the mop proper and thereby wrings the water from it. This twisting operation may be performed by rotating the mop handle in either direction, and the intensity may be varied, as is readily apparent, at the will of the operator.

The collar 3 and the sleeve 9 may be made either of wood or of metal, as the conditions may require.

The method of mounting the yarn of the mop enables me to employ a single piece of yarn, which is looped alternately over the wire 8 and then over the wire 6 until the mop-head is completed and the sleeve 9 is surrounded by loops of yarn. The construction, and arrangement of the collar 3 and the sleeve 9 provide an air space 15 and an air space 16 within the loops of the yarn, and thereby facilitates rapid drying. The construction also enables the yarn to be thrown back over the handle and to be exposed to the air on both sides when the mop handle is reversed and set up on its end.

In accordance with the patent statutes, I have illustrated and described what I now consider to be a preferred embodiment of my invention, but I desire to be understood that I do not limit myself to the apparatus shown, and that various changes and modifications may be made without departing from the spirit and scope of my invention.

What I claim is:

In a combined mop and wringer, a mop handle, a collar secured thereto, a sleeve rotatively mounted on the handle and journaled on the collar, a single strand of yarn

looped between the sleeve and the collar, means secured to the sleeve for securing one end of each of the loops in place thereon, means secured to the collar, for securing the  
5 other ends of the loops to the collar, an extension formed on said sleeve and forming a hand hold, and means for permanently

holding said sleeve in contact with said collar.

ALEXANDER FISCHER, JR.

Witnesses:

AGNES McCORMACK,  
E. W. McCALLISTER.