E. F. WITHERLY.

POLISHING AND CLEANSING MOP.

APPLICATION FILED NOV. 23, 1915.

1,199,646. Patented Sept. 26, 1916.

Fig. 4

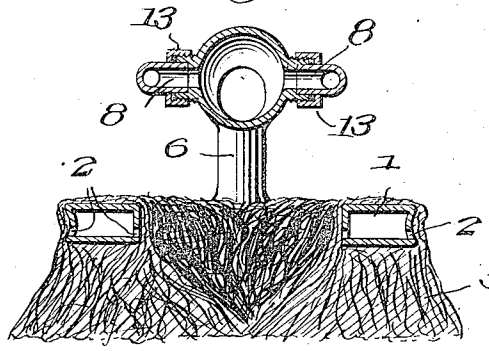


Fig. 1.

Fig. 2.

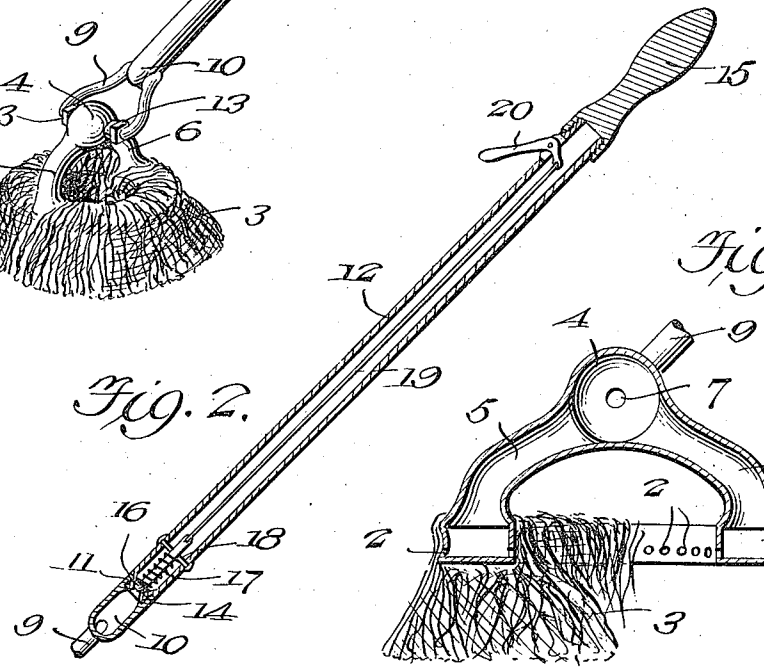


Fig. 3.

Inventor

E. F. Witherly

Witnesses

Hugh H. Hall

C. C. Hines.

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

EDWARD F. WITHERLY, OF SAN JOSE, CALIFORNIA.

POLISHING AND CLEANSING MOP.

1,199,646. Specification of Letters Patent. Patented Sept. 26, 1916.

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To all whom it may concern:

Be it known that I, EDWARD F. WITHERLY, a citizen of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented new and useful Improvements in Polishing and Cleansing Mops, of which the following is a specification.

This invention relates to a mop for use in polishing and cleansing floors and other surfaces, particularly to a mop of this character designed for the application of oil to the surfaces to be treated, the primary object of the invention being to provide a mop wherein the oil is contained within a reservoir formed by the mop handle, and may be supplied in regulated quantities to the mop material, thus avoiding the necessity of the operator carrying a separate oil receptacle and applying the liquid to the mop as used.

A further object of the invention is to provide a reservoir handle and novel construction of mop head and valve controlled means for the supply of the oil thereto from the reservoir to the mop head, by means of which a strong and durable construction of parts will be obtained, and the supply of oil to the mop may be readily and conveniently controlled as desired.

The invention consists of the features of construction combination and arrangement of parts herein fully described and claimed, reference being had to the accompanying drawing in which:—

Figure 1 is a perspective view of a mop constructed in accordance with my invention. Fig. 2 is a longitudinal section through the mop handle. Fig. 3 is a central front to rear section through a mop head and frame. Fig. 4 is a vertical transverse section on the line 4—4 of Fig. 3.

In carrying my invention into practice, I provide a ring-shaped hollow mop frame 1, which may be of circular or other form in plan, and preferably of rectangular form in cross section, the inner and outer walls of said ring-shaped frame 1 being provided with oil feed openings or orifices 2 for the supply of oil to the mop material 3, which may be applied to the frame in the ordinary or any suitable manner. Oil being supplied to the hollow frame 1, it will be evident that it will issue through the orifices 2 and will be equally supplied to all portions of the mop material 3 for use.

The frame 1 is carried by a head 4 having front and rear arms 5 and 6 depending at an angle from the head 4 and forming component parts thereof. The head 4 serves as a distribution chamber and pivot member, and the oil supplied thereto from the hollow handle or reservoir flows by gravity through the inclined arms 5 and 6 to the interior of the ring 1 with which the lower ends of said arms communicate.

The head 4 is provided in its sides with openings 7 for the reception of inwardly bent pivot members 8 upon a hollow triangular or V-shaped yoke 9, the upper, rear diverging ends of which connect with a chamber 10 communicating with a socket 11, said chamber and socket forming a union to receive and for connection with the lower end of the handle 12. The pivot members 8 which enter the openings 7 in the sides of the head 4 are held in position by nuts 13 which also form stuffing boxes to prevent leakage of oil through the opening 7.

The handle 12 is suitably fixed at its lower end within the socket 11 and provided with a valve seat 14, and at its opposite end the handle is threaded to receive a detachable cap section 15, which may be removed whenever it is desired to fill the handle with oil and replaced to prevent escape of the oil and entrance of dirt or other foreign matter. A controlling valve 16 is adapted to engage the seat 14 and to be held in contact therewith by a coiled spring 17 disposed between said valve and an abutment 18. The valve is fixed to a stem 19 which projects through the spring and abutment and is connected by a wire or other flexible connection 19 with one arm of a bell crank lever 20 extending into the handle at the upper end thereof, the other arm of said lever projecting exteriorly of the handle and forming an operating lever, whereby the valve may be opened for the supply of oil from the reservoir handle to the mop material, the valve being closed upon the release of the lever by the spring so as to positively prevent the feed of any excess amount of oil to the mop material.

It will thus be seen that the invention provides a mop which is pivotally mounted upon a handle for adjustment to allow the

mop body and handle to be disposed at different working angles, while the handle forms a reservoir to contain oil, whereby the mop body may be supplied with the proper amounts of oil at different periods to suit all work in hand, thus avoiding the annoyance and inconvenience of the operator transporting a separate can or reservoir of oil from place to place and applying the oil therefrom to the mop body whenever needed.

Other advantages and conveniences of the invention will be obvious from the foregoing description.

I claim:—

1. A mop including a hollow handle forming a reservoir, a hollow frame provided with discharge outlets, a head having passages in communication with the hollow frame, conductors leading from the handle to the head and pivotally engaging the same, and means for controlling the flow of oil from the hollow handle to said conductors.

2. A mop including a hollow handle forming an oil reservoir, valve mechanism for controlling the discharge of oil therefrom, a hollow mop frame provided with discharge perforations, mop material carried by said frame and inclosing said perforations, a head provided with branching arms communicating with the frame, and conducting arms extending from the lower end of the handle and having their free ends bent to form journals extending into and pivotally connected with the sides of the head.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD F. WITHERLY.

Witnesses:
J. GLASLY,
M. A. RAND.