C. F. ROBERTS.

FOUNTAIN DUST MOP.

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1,102,439. Patented July 7, 1914.

Fig. 1.

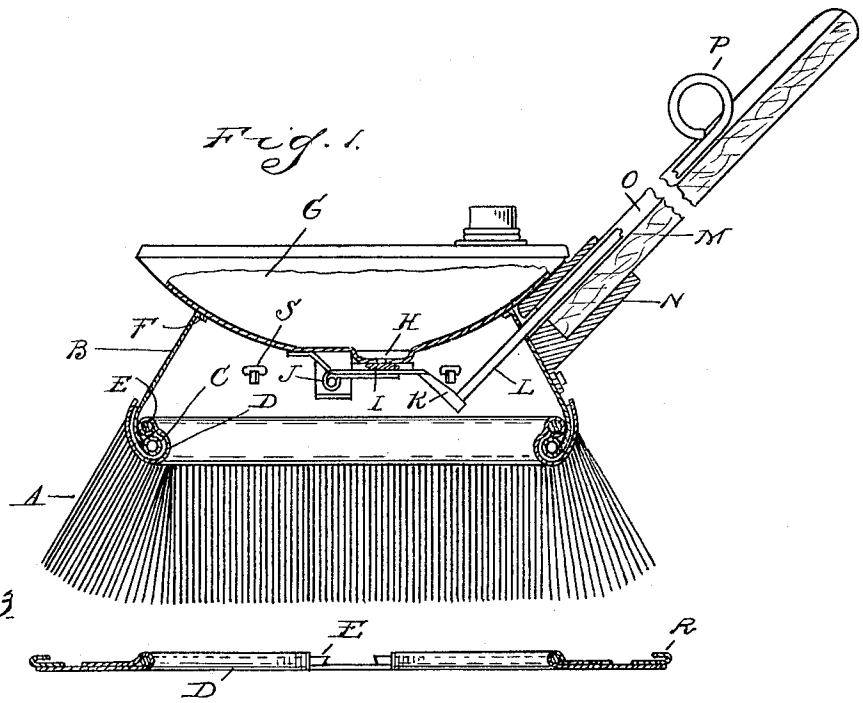
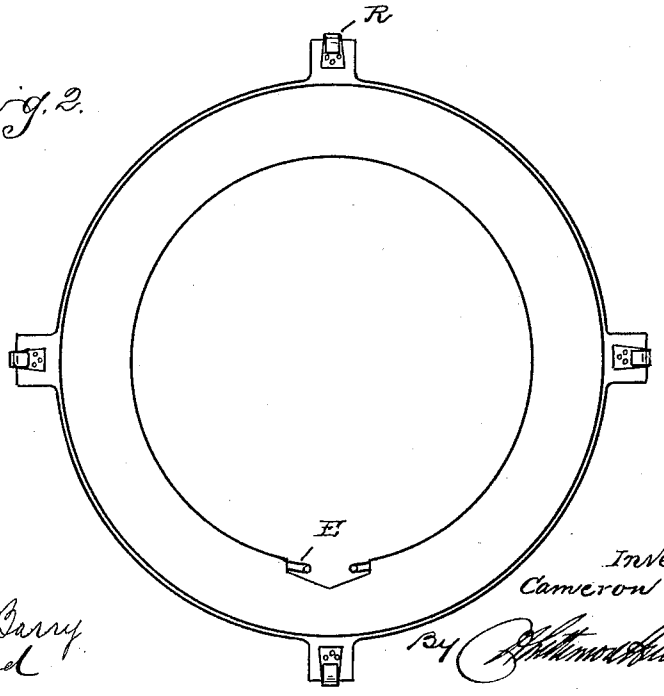


Fig. 3.

Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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FOUNTAIN DUST-MOP.

1,102,439. Specification of Letters Patent. Patented July 7, 1914.

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To all whom it may concern:

Be it known that I, CAMERON F. ROBERTS, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Fountain Dust-Mops, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to obtain an instrument primarily designed for use in the oiling of floors and for similar purposes.

A further object of the invention is to obtain a construction which may be used as a dust mop, and one in which the life may be indefinitely prolonged.

With these objects in view the invention consists in the peculiar construction of a fountain mop, provided with a reservoir for the oil or other liquid, together with means by which the discharge from said reservoir may be regulated according to requirements.

In the drawings: Figure 1 is a vertical longitudinal section through the mop; Fig. 2 is a plan view of the securing means for the mop fabric; and Fig. 3 is a cross section therethrough.

A is a suitable mop body formed of strings or fabric secured together at the top.

B is a mop head preferably formed of sheet metal and provided with a beaded lower edge C, with which the mop body is detachably secured by suitable means—such as a fabric band D passing over the bead and a resilient ring E for clamping the same. The head B is formed with a seat F for an oil can G, the latter being preferably formed with a convex bottom and extending outward bevond the seat. This can is also preferably comparatively shallow to limit the height of the mop, and to facilitate the use of the same beneath beds and other articles of furniture.

The oil contained in the can G is intermittently discharged in the center of the mop to impregnate the fabric thereof, preferably by the following construction: H is an apertured nipple in the bottom of the can. I is a disk valve for seating on said nipple to close the aperture, and which is connected by a resilient hinge connection J to the bottom of the can. K is an actuating arm for the connection J, which extends outward into the path of an actuating rod L, which latter is slidably secured in a handle M attached to one side of the head B and extending upward in an inclined direction. The handle is attached by providing the socket N upon the head B, and the handle M is preferably grooved at O to receive the rod L, while a finger grip P at the upper end of said rod forms an operating means therefor.

In use, the mop fabric, when attached to the mop head, will spread over the floor in the space within the hollow head and upon all sides the latter. The operator may then move the mop back and forth through the handle M, and as frequently as necessary can press upon the hand-grip P to actuate the rod L and arm K to move the disk I from its seat. This will permit a quantity of oil to pass through the apertured nipple and to fall upon the mop fabric, or upon the floor in the space surrounded by said fabric where it will be wiped up in the movement of the mop.

Whenever it is necessary to remove the fabric for cleansing, it may be detached from the bead C by springing the ring E out of engagement therewith. To prevent accidental detachment and to increase the security of the fastening, I preferably provide a plurality of hooks R on the securing fabric D which engage apertures S in the head B on the outside thereof. Thus the fabric is attached both outside and inside the head, and will not become unfastened with ordinary use.

What I claim as my invention is:

1. A fountain mop, comprising a hollow head formed of sheet metal and provided with a beaded annular flange at its lower end, a mop body having a fabric band for overlapping said beaded annular flange, a clamping ring for securing said band to said flange, an oil receptacle mounted on said head and provided with an aperture in the bottom thereof, and a valve within said head for controlling the discharge of oil from said receptacle.

2. A fountain mop, comprising a hollow head formed of sheet metal and provided with a beaded annular flange at its lower end, a mop body having a fabric band for overlapping said beaded annular flange, a clamping ring for securing said band to said flange on the inner side thereof, hooks on said band for engaging bearings on the outer side of said flange, an oil receptacle having an apertured bottom, a valve controlling said aperture, a handle for actuating said

mop, and a rod mounted on said handle operatively connected with said valve.

3. A fountain mop, comprising a frusto-conical hollow head, an oil receptacle mounted on said head and having an apertured bottom, a valve for closing said aperture, a resilient arm secured to said valve for holding the same to its seat, a handle for actuating said head, a rod mounted in said handle operatively connected with said resilient arm, and a mop body having a fabric band detachably secured to the lower end of said hollow body.

4. A fountain mop, comprising a hollow frusto-conical head formed of sheet metal and provided with an inturned beaded flange at its lower end, an oil receptacle having a rounded bottom, seated on said head and projecting downward therein, a valve for closing an aperture in the bottom of said receptacle, a handle secured to said head, a rod slidably secured to said handle and operatively connected to said valve, a mop body having a fabric band at its upper end, a resilient split ring secured to said band and detachably engaging said beaded flange, and hooks secured at opposite points on said band and detachably engaging apertures on the outer face of said head.

5. The combination with a head, of an open central wiper engaging the same, a liquid reservoir mounted on said head, a handle for operating said head, and means for discharging liquid from said reservoir within the space surrounded by said annular wiper, said means being controlled from said handle.

6. The combination with a hollow head, of an open centered annular wiper engaging said head and contained within the hollow thereof, a reservoir mounted on said head, a handle for operating said head, and means for discharging liquid from said reservoir centrally within the space surrounded by said annular wiper.

7. The combination with a mop-head provided with an annular skirting having a bead, of a mop body having a fabric band at its upper end, and a resilient split annulus secured to said band and detachably engaged over said bead.

8. The combination with a mop head provided with an annular skirting having a bead, of an open-centered mop body having a fabric band at its upper end, and an annulus secured to the band and detachably engaged over said bead for securing said head to the body.

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

CAMERON F. ROBERTS.

Witnesses:
JAMES P. BARRY,
HENRI E. BOWMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."