E. S. ELLIS.

MOP.

No. 192,906. Patented July 10, 1877.

Fig. 1

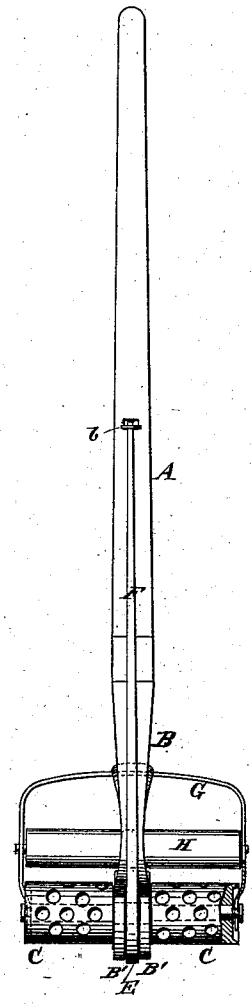
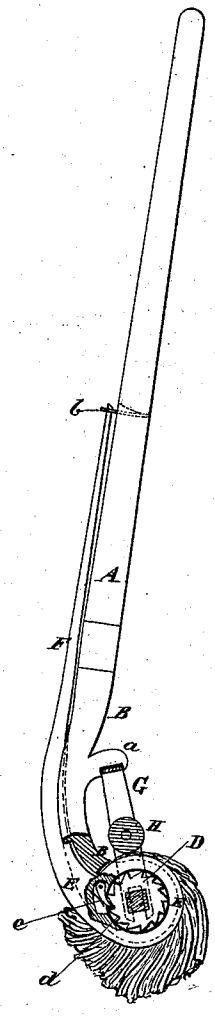


Fig. 2



WITNESSES:

A. W. Almqvist

J. P. Scarborough

INVENTOR:

E. S. Ellis.

BY

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDMUND S. ELLIS, OF LYNN, MASSACHUSETTS.

IMPROVEMENT IN MOPS.

Specification forming part of Letters Patent No. **192,906**, dated July 10, 1877; application filed June 11, 1877.

To all whom it may concern:

Be it known that I, EDMUND S. ELLIS, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and Improved Mop, of which the following is a specification:

The object of my invention is to combine with a cylindrical rotating mop a wringing-roller; and the nature of my invention consists in a perforated cylinder, having thrums or tufts of yarn fixed to it, in combination with a wringing-roller, which is held in contact with said cylinder by means of a bow-spring, as will be hereinafter explained.

The invention also consists in the combination of a ratchet and pawl and a lever-handle with the cylindrical rotating mop, for the purpose of squeezing the water out of the latter, as will be hereinafter explained.

In the annexed drawings, Figure 1 is a view of the mop without the tufts of yarn on the perforated cylinder. Fig. 2 is a section, showing the ratchet and pawl for rotating the mop-cylinder.

Similar letters of reference indicate corresponding parts.

The letter A designates the handle of the instrument, to which a metal shank, B, is rigidly secured, having a flanged embracing-ring, B′, formed on it, in which ring a hollow perforated cylinder, C, is free to turn. Cylinder C is covered with tufts of yarn, suitably secured to it, and its end bearings are in the slotted ends of a bow-spring, G, which is pressed into a notch formed in a projection, *a*, of the shank B. This spring G bears a roller, H, which may be formed chiefly of india-rubber, cloth, or other suitable substance, and which is held in close contact with the mop by the action of the spring G. By forcibly compressing the spring it can be detached from the notch in the projection *a*.

F designates a hand-lever, and *b* a spring-catch therefor. On this lever a ring, E, is formed, which embraces the perforated mop-cylinder between rings B′ B′, and to which a pawl, *c*, acted on by a small spring, is pivoted. Pawl *c* engages with the teeth of a ratchet-wheel, *d*, as shown in Fig. 2.

By detaching the upper end of lever F from its spring-catch *b*, and vibrating this lever, the pawl *c* will rotate the mop, and the pressure-roller will squeeze the water out of it.

In the drawing I have represented the ratchet-wheel on the shaft of the mop-cylinder and the pawl on the ring of the handle F; but I may apply the pawl on the cylinder-shaft and form the ratchet-teeth on the ring of the handle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In combination with the cylindrical rotating mop C on a handle, A, a pressure-roller, H, acted on by a spring, G, substantially as described.

2. The lever-handle F, ratchet and pawl *c d*, and pressure-roller H, in combination with mop-cylinder C, substantially as described.

EDMUND S. ELLIS.

Witnesses:

JAMES W. KIMBALL,

ABEL G. COURTIS.