(No Model.)

C. & F. C. McDONALD.

MOP WRINGER.

No. 444,279. Patented Jan. 6, 1891.

Fig. I.

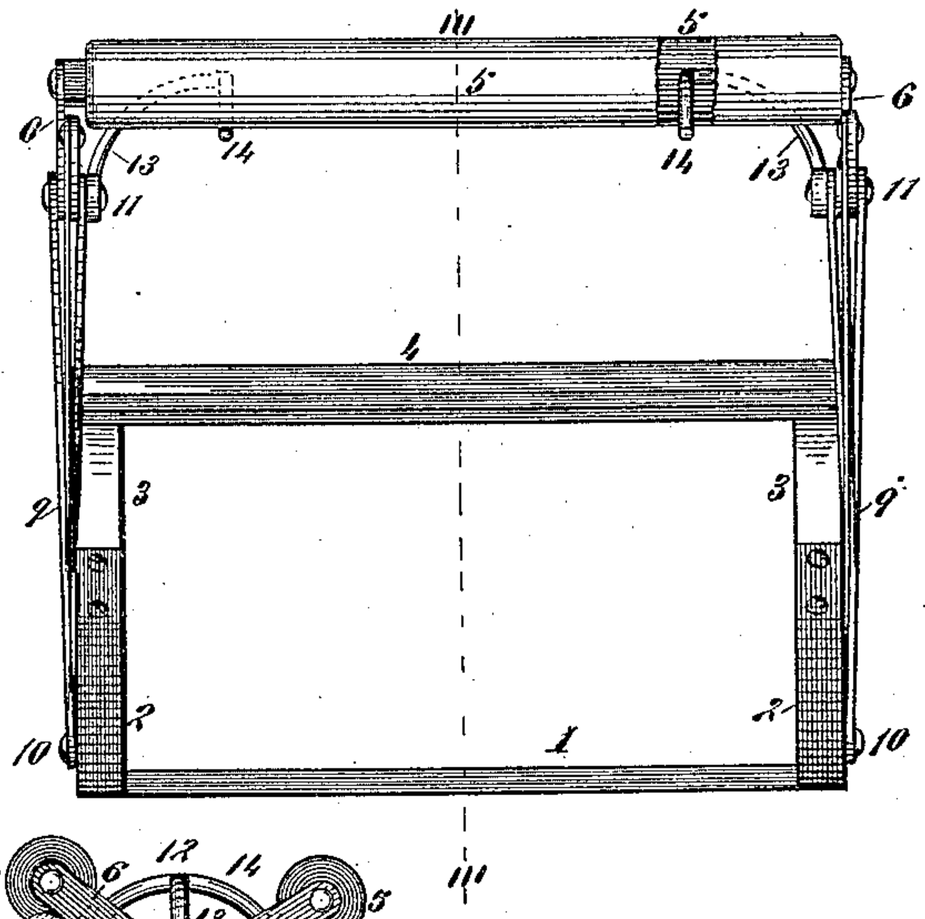


Fig. II.

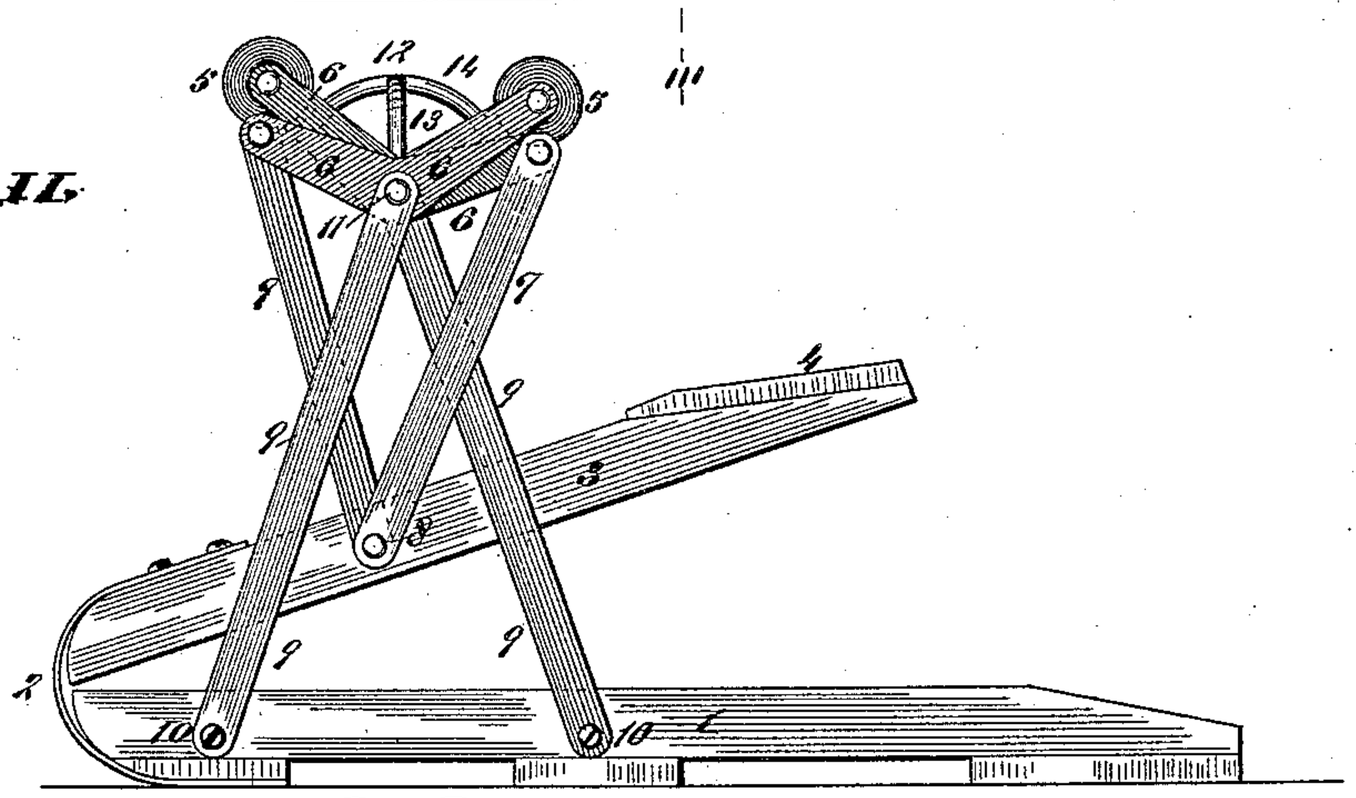
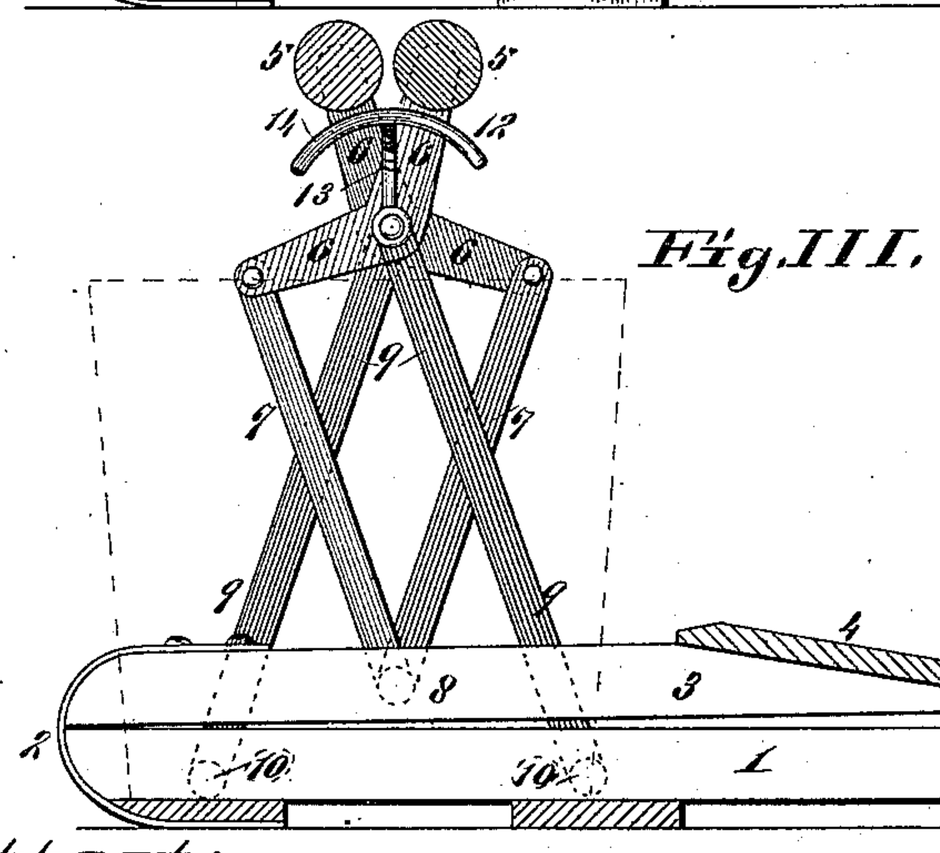


Fig. III.



Attest;
E. Arthur
E. L. Knight

Inventors
Charles McDonald
Fred. C. McDonald
By
attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES McDONALD, OF NORWALK, OHIO, AND FRED C. McDONALD, OF CHICAGO, ILLINOIS.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 444,279, dated January 6, 1891.

Application filed May 31, 1890. Serial No. 353,852. (No model.)

To all whom it may concern:

Be it known that we, CHARLES McDONALD, of Norwalk, Huron county, Ohio, and FRED C. McDONALD, of the city of Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Mop-Wringers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Our invention relates to an improved mop-wringer operated by treadle or foot power; and our invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a rear elevation of our improved mop-wringer. Fig. II is a side elevation showing the parts in the position which they assume when not being used; and Fig. III is a vertical section taken on line III III, Fig. I, and showing the parts in the position which they assume when they are being used.

Referring to the drawings, 1 represents a suitable base, to which a treadle 3, having a foot-piece 4, is connected by spring-straps 2. The action of the springs 2 is to hold the treadle and the connecting parts in the position shown in Fig. II, and when pressure is applied to the inner end of the treadle the parts assume the position shown in Fig. III.

5 represents two wringer-rolls journaled in the upper ends of bell-crank levers 6, there being a lever for each roller at each end of the machine. The lower ends of the wringer-roll levers are connected by links or straps 7 (there being a strap for each lever) to the treadle 3 at 8. The rollers and levers are supported above the base and treadle by means of straps 9, made fast at their lower ends to the base 1 at 10, and connected together at their upper ends and to the respective pairs of levers by bolts or rivets 11. There are two or a pair of the straps 9 at each side of the wringer for forming a steady support, and each support has connected to it the two levers of its side of the machine by the bolts or rivets 10, the bolts or rivets forming the pivots upon which the levers 6 turn as the rollers open and close. It will thus be seen that when the treadle is raised to its normal position by the springs 2, as shown in Fig. II, the lower ends of the wringer-roll levers will be thrown in an upward direction, which causes the rollers 5 to open out from the position shown in Fig. III to the position shown in Fig. II. Then when the force is applied to the outer end of the treadle and the treadle is moved from the position shown in Fig. II to the position shown in Fig. III the lower ends of the levers 6 will be made to move in a downward direction, causing the rollers 5 to move toward each other from the position shown in Fig. II to the position shown in Fig. III, and when brought to this position they are made to embrace or grasp a mop, and by this means the mop is wrung.

12 represents guards secured to the upper ends of the supporting-straps 9. There is a guard on each side of the machine, each consisting of a stem 13, extending in an inward and upward direction between the rollers and having a head or cross-bar 14 at its upper and inner end. The cross-bars or heads 14, as will be seen from Fig. I, are located some distance from the ends of the rollers, and the function of these guards is to prevent the spreading of the mop, and consequently preventing the dripping of water from the mop over the sides of the pail or bucket.

A device thus constructed is very cheap and durable, is automatic in its opening action, is not likely to get out of order, and effectually performs the uses or functions for which it is intended.

We claim as our invention—

1. In a mop-wringer, the combination of a suitable base and a treadle hinged to said base, and upwardly-extending supports rigidly secured to said base, with suitable levers pivoted to said supports and carrying the

wringer-rolls, and links connecting the wringer-roll levers with the treadle, all substantially as herein set forth.

2. In a mop-wringer, the combination of a suitable base having supports to which the wringer-roll levers are pivotally connected, with a treadle and suitable links connecting the wringer-roll levers with the treadle, said treadle being connected to the base by spring-straps, which serve the double purpose of a spring and hinge, substantially as herein set forth.

CHAS. McDONALD.
FRED C. McDONALD.

Witnesses:
HENRY S. MITCHELL,
D. C. OWEN.