

No. 877,149.

PATENTED JAN. 21, 1908.

W. H. WETMORE.

MOP WRINGER.

APPLICATION FILED JAN. 25, 1906.

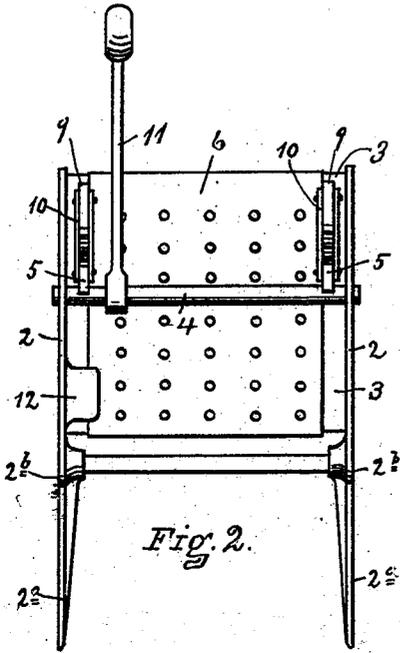


Fig. 2.

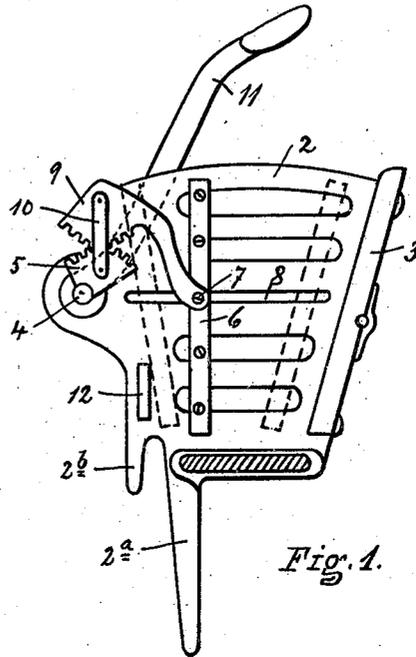


Fig. 1.

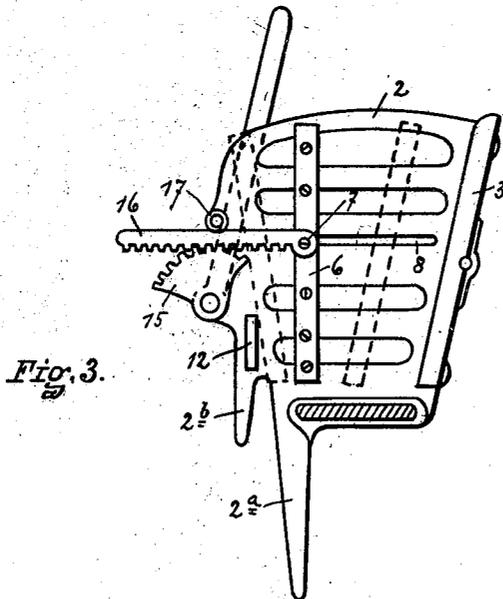


Fig. 3.

WITNESSES.
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UNITED STATES PATENT OFFICE.

WILLIS H. WETMORE, OF ONEIDA, NEW YORK, ASSIGNOR TO CHARLES A. LEE, OF ONEIDA, NEW YORK.

MOP-WRINGER.

No. 877,149.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed January 25, 1906. Serial No. 297,772.

To all whom it may concern:

Be it known that I, WILLIS H. WETMORE, of the city of Oneida, county of Madison, and State of New York, have invented certain new and useful Improvements in Mop-Wringers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The object of my present invention is to provide a mop wringer which is simple in construction and efficient in operation, and cheaply manufactured and assembled.

In the drawings Figure 1 shows an end elevation of a mop wringer of my improved construction with one of the end frames removed, and the movable parts in intermediate position. Fig. 2 shows a side elevation of a mop wringer, being the side as seen from the left of Fig. 1. Fig. 3 is a similar figure to Fig. 1 of a modified form of construction.

Referring to the reference letters and figures in a more particular description, 2, 2 indicate the end frames, which have rigidly secured therebetween the fixed presser board, 3. In bearings in the opposite side of the frames from the presser board, 3 is mounted a rock shaft, 4, which carries adjacent to each end, and immediately inside of the end frames, an eccentric segment 5. Between the shaft, 4 and the fixed presser board 3, is arranged the movable presser board 6, which is provided at each end with a projection 7, movably mounted in the slot 8 in each end frame. The movable presser board is thus mounted to slide laterally across the wringer in said slot, but is free to rock on said projection 7 as on pivots, whereby it is adapted to adjust itself to various thicknesses of the mop head. Extending between the eccentric segment 5 and the pivotal projection 7 at each end of the movable presser, there is provided a connecting rod 9. This rod at one end has an eye which slips over on to the projection 7 before the end is applied, while the opposite end has an eccentric tooth head adapted to mesh with the teeth of the gear sector 5. The gear sector 5 and the said tooth head on the connecting rod 9, are held

together by connecting straps 10, which are pivoted at their respective ends, to the said two parts. On the shaft between the two gear sectors 5 preferably there is mounted a handle 11 by means of which the shaft 4 can be rocked, and the movable presser board 6, forcibly moved toward the fixed presser board 3, or withdrawn therefrom. It may be noted that the movable presser board 6 is somewhat shorter than the fixed presser board 3 whereby a sufficient space is provided at either end for the introduction of the connecting rod 9 to the pivotal projection 7, between the ends of the presser board and the end walls of the wringer frame. On one of end walls 2 (or both if preferred) there is provided a stop projection 12 against which the lower edge of the movable presser board is adapted to strike when moving towards its open position, whereby it is made to assume its proper open position as shown by one of the set of dotted lines, in case it has any tendency to come to open position in otherwise than in proper form. The lower portion of the end frames 2 are provided with downwardly projecting arms 2^a, adapted to engage against the inner wall of a pail or bucket to which the movable wringer is adapted to be applied and is also provided with a hook projection 2^b adapted to hook over the edge of the wall of said bucket or pail, and retain the wringer in proper position thereon.

In the modified form of construction shown in Fig. 3 in lieu of the eccentric shaped sector shown in Fig. 1, there is provided a regular shaped sector 15. The teeth of this sector 15 are connected by a substantially straight tooth rack 16 with the pivotal projection 7 same as heretofore described. In order to hold the tooth rack 16 in engagement with the sector 15 there will be provided a roller 17 pivoted on the end frame, and engaging the upper edge of the said tooth rack. The first described construction is perhaps preferable in that it provides for a more rapid and less powerful movement of the movable presser board in the initial movement, and a slower and more powerful movement near the end; while in the modified form of construction the movable presser board is moved forward and backward at a uniform speed compared with the speed of

the handle, and, of course no advantage of leverage is secured near the end of the movement.

5 What I claim as new, and desire to secure by Letters Patent is:

10 The combination in a mop wringer of a frame including ends and a fixed presser board arranged at one side, a rock shaft mounted in bearings in the frame at the opposite side from the presser board, a movable presser provided with pivotal projections at each end engaging and operating along and in slotted horizontal openings in the ends, 15 eccentrically mounted on and secured to the

rock shaft, connecting rods having an eye at one end receiving and mounted on said pivotal projections between the ends of the frame and the ends of the movable presser and having eccentric toothed heads engaging 20 said toothed segments, and means for rocking the rock shaft, substantially as set forth.

In witness whereof I have hereunto affixed my signature in the presence of two witnesses, this 15th day of January 1906.

WILLIS H. WETMORE.

Witnesses:

F. J. KELTON,
CHARLES A. JEWETT.