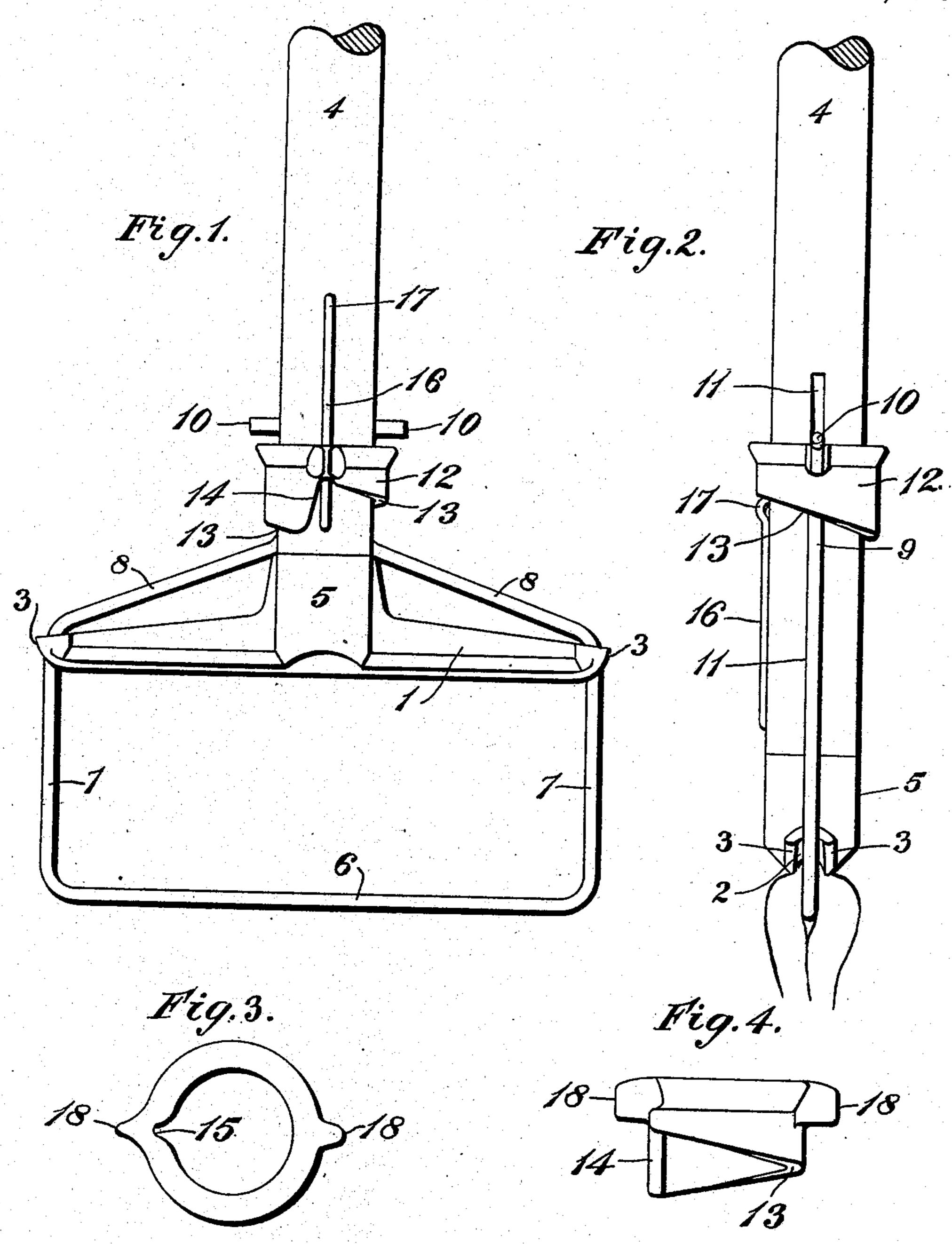
L. W. MERRIAM. MOP HEAD.

APPLICATION FILED NOV, 27, 1907.

911,894.

Patented Feb. 9, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

LYMAN W. MERRIAM, OF FITCHBURG, MASSACHUSETTS.

MOP-HEAD.

No. 911,894.

Specification of Letters Patent.

Patented Feb. 9, 1909.

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To all whom it may concern:

Be it known that I, LYMAN W. MERRIAM, a citizen of the United States, residing at Fitchburg, in the county of Worcester and 5 State of Massachusetts, have invented certain new and useful Improvements in Mop-Heads; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the ac-10 companying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in mop heads of which 15 the following is a full, clear, and exact de-

scription.

The essential novelty of this invention resides in the use of a cam ring for operating the holding loop and securing the same 20 in clamping position.

Reference will be had to the accompanying drawing forming a part of this specification and wherein like numerals of reference designate corresponding parts throughout

25 the several views, in which:

Figure 1 is a side elevation showing the holding loop in open position. Fig. 2 is an end view in elevation illustrating the holding loop in closed position with the mop se-30 cured in place, Fig. 3 is a top plan view of the cam ring, and Fig. 4 is a side view thereof.

Reference numeral 1 designates the cross bar formed in its bottom edge with the usual 35 trough 2 and in its ends with notches forming the usual guide luos or ears 3. The cross bar 1 is attached to the mon stick or handle 4 by a ferrule or sleeve 5. The holding loop comprises the usual clamping bar and side 40 bars 7, 7, the latter operating between the said guide lugs or ears 3. The side bars are bent inwardly to form branches 8, 8 which, when the mop head is open to its fullest extent, engages the said cross-bar 1. It is contem-45 plated to construct the holding loop so that the same will open to a greater extent than is common in this art, to accommodate a large mop. The upper ends of the branches 8, 8 are bent upwardly to provide portions 9, 9 50 parallel with the stick or handle, and the extreme ends of these portions are bent outwardly at right angles into free end portions or arms 10, 10.

In opposite sides of the stick or handle, 55 are formed longitudinal grooves 11, 11 in

which the said portions 9, 9 are slidably received. Upon the stick or handle, is arranged a cam-ring 12 encircling the same and slidable thereon. This ring is located with respect to the holding loop between the 60 portions 8, 8 and 10, 10 of the latter and embraces the portions 9, 9. The lower edge of the cam-ring is inclined as indicated by numeral 13, terminating in a shoulder 14. A groove 15 is formed in the inner wall of 65 the ring longitudinally thereof, and is adjacent the starting point of the cam or inclined edge 14.

A guide wire 16 extends longitudinally of the stick or handle being secured thereto in 70 any suitable manner, though preferably by bending the ends thereof and inserting the same in the stick or handle. The upper portion of this wire is bent outwardly as at 17 to form a bearing-stud, the object of which 75 will be hereinafter set forth. The said wire 16 forms a guide-rib which is received in the said slot or groove 15 of the cam ring to prevent the ring from turning until the same has been raised to a point above the said 80 stud or bent portion 17. To facilitate turning of the cam ring, ears or grips 18, 18 are provided thereon.

The mop head is operated in the following manner, assuming the parts to be in the po- 85 sition illustrated in Fig. 1 of the drawing. The mop is doubled over the lower bar of the holding loop and the cam-ring 12 is then moved upwardly on the handle or stick 4, at the same time coming into contact with the 90 outwardly bent portions or arms 10, 10 of the holding loop and drawing the same upwardly with it to engage the mop-cloth therebetween and the cross-bar 1 of the head. During this upward movement, the ring is 95 prevented from turning as previously described, due to the wire or rib 16 within the groove 15 of the ring. After the cam or inclined lower edge of the ring 12 has passed beyond the stud or bent portion 17 of the 100 guide wire, the ring may be turned, and the said cam or inclined edge of the ring riding over said stud or bent portion 17 will cause the ring to move upwardly to a further extent, thereby moving the holding loop an ad- 105 ditional step to grip the mop-cloth more securely.

What is claimed as new and useful, is: A mop holder comprising a handle having head, and provided with longitudinal 110

grooves in opposite sides thereof, a movable holding loop having its upper ends bent vertically and parallel with each other to engage the grooves, the terminals of said ends of the loop being bent outwardly so as to extend vertically from said grooves, a cam ring movably mounted on the handle and over the parallel sides of the loop, and having a groove in its inner face, said groove receiving a guide disposed on the surface of the handle parallel to and at a point between the

grooves in the handle, the upper portion of the guide serving as a stop against which the cam surface of the ring will engage, when the ring is raised above the top of the guide 15 and turned to clamp the holding loop against the mop head, substantially as specified.

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Witnesses:

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