R. G. PARANTAU.

MOP.

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1,237,086. Patented Aug. 14, 1917.

Fig. 1

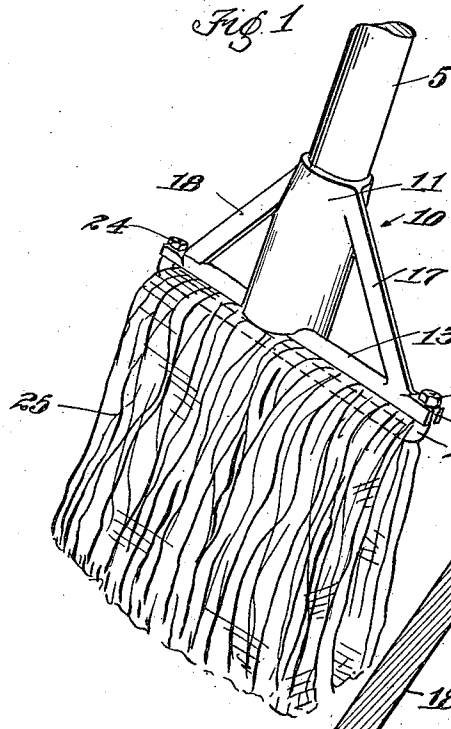
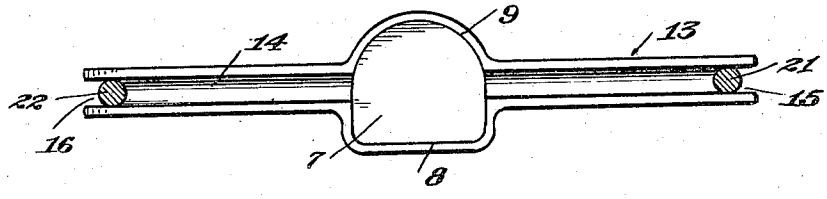


Fig. 2.

Fig. 3



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UNITED STATES PATENT OFFICE.

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MOP.

1,237,086. Specification of Letters Patent. Patented Aug. 14, 1917.

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To all whom it may concern:

Be it known that I, RICHARD G. PARANTAU, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Mops, of which the following is a specification.

This invention relates to a device for holding mops.

It is an object of this invention to provide a means for removably securing a mop to an operating handle or mop stick in a fixed manner and insuring that the mop may be easily and readily removed from its mounting upon said mop stick.

It is another object of this invention to provide a securing means adapted to be mounted upon a mop stick in a manner that will insure its fixed position thereon without the aid of screws or other fastenings.

An objectionable feature to most mop mountings is that said mounting becomes loose after the mop stick has been moistened and that said stick is liable to rotate within the mounting. It is an object of this device to eliminate such a fault in construction and insure that the mop mounting will under all conditions remain in its original position upon the mop stick.

Another object is to provide a mop mounting for mop sticks which may be constructed of few parts and may be manufactured at small cost.

Other objects will appear hereinafter.

The invention is illustrated in the accompanying drawings in which:

Figure 1 is a perspective view of a complete mop which is provided with my mop mounting and a portion of the handle broken away.

Fig. 2 is a view in vertical section taken longitudinally through the mop mounting and a portion of the mop stick.

Fig. 3 is a plan view of the mop mounting as looking in the direction indicated by the arrows in Fig. 2.

Referring to the drawings, 5 indicates a mop stick which is formed throughout its body portion of a substantially cylindrical shape and has a lower portion 6 which is tapered and terminates in an enlarged terminating end 7. The terminating end of said mop stick is formed with a flat side 8 and has its remaining periphery formed substantially of a semi-elliptical portion 9. The purpose of this special formation will hereafter be explained.

The end 7 of the mop is here shown as having a mop mounting 10 thereon. Said mounting consists of a longitudinally extending sleeve or socket portion 11 having a bore or socket 12 therein and of a shape which substantially conforms to the surface of the mop stick end portion 7. Extending outwardly upon diametrically opposite sides of the sleeve 11 is a cross head member 13 which is here shown as formed integral with said sleeve and as lying upon the approximate transverse axis through the sleeve. The cross head 13 has formed throughout its length and upon its lowermost face a semi-circular groove 14 and the outer ends of the member 13 are provided with notches 15 and 16 which extend through the cross head member and at right angles to the groove 14. To provide the necessary rigidity of the outwardly extending portions of the cross head 13 I have formed diagonal reinforcing members 17 and 18 which are formed integral at their one ends to the cross head and terminate at their other ends adjacent the upper end of the sleeve 11. It may be here stated that the entire mounting 10 is formed of a single casting.

Means for securing the mop in its fixed position upon said mounting 10 are provided by a clamping member 19 which is here shown as formed of a cylindrical bar of a diameter approximately equal to the width of the annular groove 14. Said member 19 is formed with a longitudinally extending straight portion 20 which terminates at each end in upturned portions 21 and 22 adapted to register with slots 15 and 16. The portions 21 and 22 are threaded at their terminating ends and are engaged by clamping nuts 23 and 24. Said nuts are utilized to draw the clamping bar 19 within the groove 14 and thus afford a suitable grip for holding a mop wiper 25 therebetween.

In the use of this device, the mop mounting 10 is placed with its bore 12 in register with the cylindrical end portion of the mop stick and said mounting is drawn over the mop stick until it encounters the enlarged end portion 7. Care is used to insure that the complementary faces of the mop stick will register with the portions 8 and 9 of

the mop sleeve 11. In this manner the mop mounting is driven over the portion 7 and in fixed relation thereto.

The mop member 25 is now hung over the clamping member 19 which member is at this time removed from its mounted position upon the mop. When the mop has been suitably placed upon the clamping member said member is brought with its upturned end portions 21 and 22 into register with the slots 15 and 16. The nuts 23 and 24 are then applied and as hereinbefore stated will securely clamp the mop wiper 25 in position.

It will thus be seen that I have provided a mop mounting which is simple in construction, positively engages the mop, and insures that the mop mounting will remain in fixed position upon the mop handle without being able to move longitudinally or pivotally thereon.

I claim:

1. In a mop, a handle, a mop holder comprising a handle receiving sleeve, a cross head secured adjacent one end of said sleeve, the bore of said sleeve converging from said cross head, the sleeve engaging end of said handle converging to fit the converging portion of the bore of said sleeve so as to hold the mop holder on said end of the handle, means for preventing the handle turning in said sleeve, the ends of said cross head being provided with clamp receiving notches, a U-shaped clamping bar having upturned threaded ends adapted to project through said notches, a mop wiper adapted to hang over said clamping bar, and nuts adapted to screw on the threaded ends of said clamping bar against the ends of said cross head to clamp said mop wiper between said bar and said cross head.

2. In a mop, a cylindrical handle, an enlarged portion formed at one end of said handle, said portion being formed with a flat side, a mop mounting sleeve adapted to be mounted upon and register with said enlarged end portion, a cross head formed upon one end of said sleeve, an annular groove formed longitudinally of said cross head, notches extending through the terminating outer ends of said cross head and parallel to the longitudinal axis of the handle, a U-shaped clamping member having a portion adapted to register with said annular groove and having end portions which project through the terminating notches upon said cross head, a mop adapted to be positioned between the clamping member and the grooved face of said cross head, and nuts provided to draw the clamping member toward the cross head.

In testimony whereof I have signed my name to this specification.

RICHARD G. PARANTAU.

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