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ROLLER MOP WRINGER HAVING CARRYING HANDLE FIXED TO PIVOTED SUPPORT FOR ROLLERS

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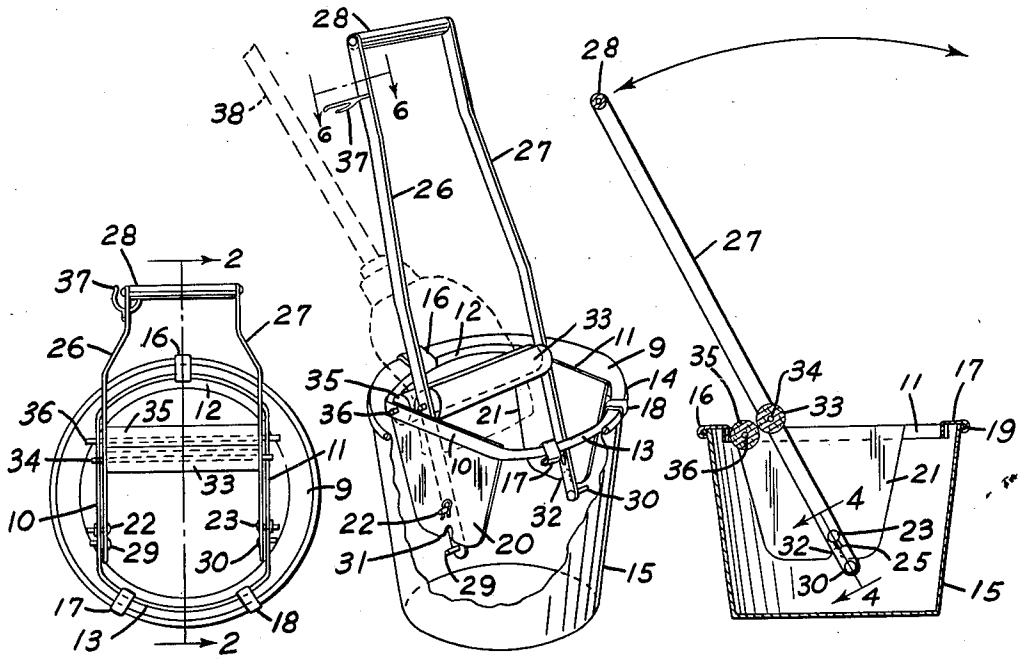


Fig. 3 Fig. 1 Fig. 2

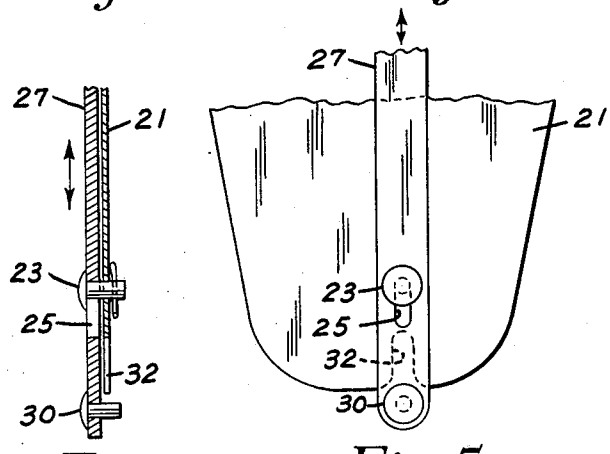


Fig. 4 Fig. 5

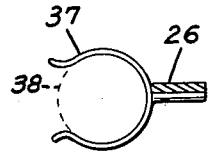


Fig. 6

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ROLLER MOP WRINGER HAVING CARRYING HANDLE FIXED TO PIVOTED SUPPORT FOR ROLLERS

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1 Claim. (Cl. 15—262)

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This invention relates to household devices and has particular reference to a mop wringer, which may be mounted on a conventional metal pail.

An object of the invention is the provision of a mop wringer, which is constructed and arranged so that the person using it may do so without having to stoop over.

Another object of the invention is the provision of a device of the character indicated, which will also serve as a carrying handle for the pail.

A further object of the invention is to provide a device of the character indicated, which serves as a hold down for the pail during the wringing operation.

The foregoing and other objects and advantages of the invention will appear as the description proceeds, reference being made from time to time to the accompanying drawings forming part of the within disclosure, in which drawings:

Fig. 1 is a perspective view, with parts broken away, of a pail on which is mounted a device embodying our invention.

Fig. 2 is a section taken substantially on the line 2—2 of Fig. 3.

Fig. 3 is a plan view of the device illustrated in Fig. 1.

Fig. 4 is an enlarged fragmentary detail, in section, taken on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged fragmentary detail showing one of the aprons and a portion of one of the arms and associated elements.

Fig. 6 is a section taken on the line 6—6 of Fig. 1.

Referring now more particularly to the drawings, it will be understood that in the embodiment herein disclosed, our device consists of a frame 9, which is preferably made of a strap of metal formed with two straight sides 10 and 11, and curved ends 12 and 13. The frame 9 is of such size as to provide a suitable clearance between it and the edge 14 of the pail 15, on which it is to be mounted. The frame 9 is provided with clamps 16, 17 and 18, which are adapted to overlie the edge 14 of the pail 15, and engage the underside of the roll 19 to secure the device against displacement from the pail 15. Depending from each straight side 10 and 11 of the frame 9 is an apron 20 and 21, also made of metal and of suitable strength to carry the load imposed thereon. The aprons 20 and 21 are provided with suitable openings to accommodate the rivets 22 and 23, which extend through the slots 24 and 25 formed in the arms 26 and 27, comprising elements of the handle 28. The arms 26 and 27 also carry pins 29 and 30 at their ends, which are arranged when

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moved upwardly to engage the slots 31 and 32 formed in the lower ends of the aprons 20 and 21. The rivets 22 and 23 permit the arms 26 and 27 to pivot on the aprons 20 and 21; as shown by the double arrow in Fig. 2. The engagement of the pins 29 and 30 with slots 31 and 32, secure the arms 26 and 27 in vertical position with reference to the aprons 20 and 21, and prevent the arms 26 and 27 from pivoting when the pail 15 is lifted off the ground by the handle 28.

A roller 33 is mounted on a shaft 34 which extends through the arms 26 and 27, and is adapted to be brought into engagement with a second roller 35, which is mounted on a shaft 36, supported in the frame 9.

A spring clip 37 is secured to the arm 26 and serves to hold the mop handle 38 in upright position when the pail 15 is carried by the handle 28.

To use the wringer, the operator sets the pail in front of him grasping the handle 28 in the left hand and the mop handle 38 in the right hand. The handle 28 is then swung away from the operator so that the mop head, shown in broken lines in Fig. 1, may be inserted between the rollers 33 and 35. The handle 28 is then moved toward the operator bringing the rollers 33 and 35 together to compress the mop head. As the rollers 33 and 35 are held in close relation by the handle 28, a downward pressure is also exerted on the handle 28, which serves to hold the pail 15 on the floor and prevent its tipping over.

When the mopping and wringing operations are completed, the mop may be inserted in the pail 15, so that the mop handle 38 and handle 28 are in vertical position, in which position the mop handle 38 may be clipped to the handle 28, and the whole assembly may then be carried by the handle 28.

Having described our invention, what we claim and desire to secure by Letters Patent is:

In combination with a pail, a mop wringer comprising a frame having spring clamps arranged to secure the frame to the rim of the pail, a pair of aprons extending downwardly from said frame, a slot in the lower end of each of said aprons, said slots being in a vertical plane substantially bisecting said pail, comparatively long arms secured by pivots to said aprons at points above and in alignment with said slots, said arms having a handle at one end and pins at the other end adapted to detachably engage said first named slots, longitudinal slots in said arms arranged to slidably engage the said arm pivots, and a roller carried between said arms and arranged to contact a roller

carried by said frame when the end pins on said arms are out of contact with the slots in said aprons, the said end pins and said first named slots being so arranged that when said arms are in substantially vertical position the said end pins may engage said first named slots whereby the wringer and pail may be carried by said handle without tipping.

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