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H. M. VAUGHAN

MEANS FOR TILTABLY SUPPORTING TUBS

Filed June 13, 1922

Fig. 1.

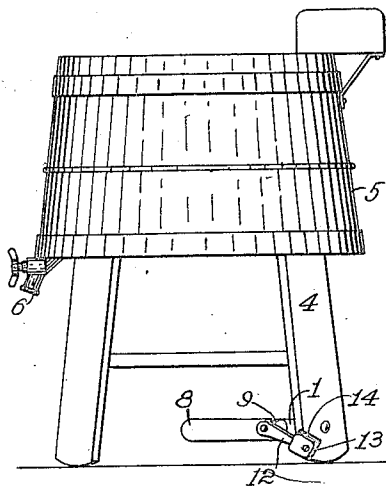


Fig. 2.

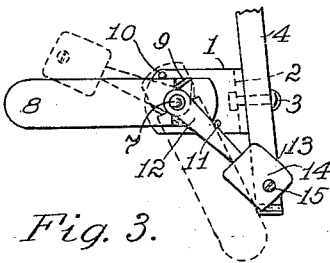
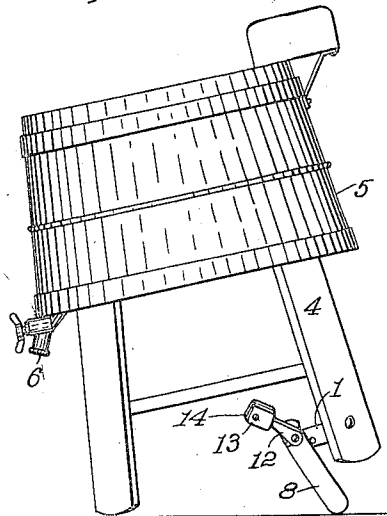


Fig. 3.

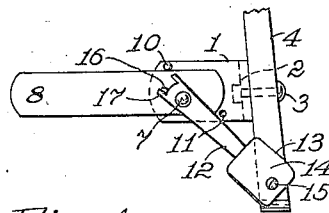


Fig. 4.

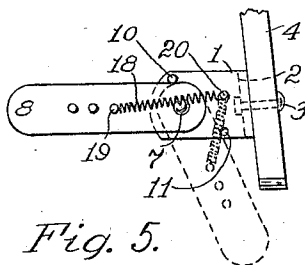


Fig. 5.

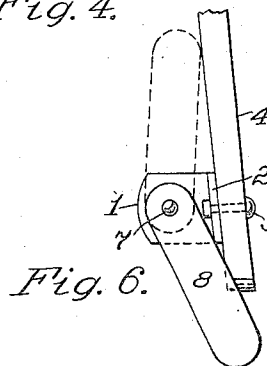


Fig. 6.

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UNITED STATES PATENT OFFICE.

HENRY M. VAUGHAN, OF NEWTON, IOWA.

MEANS FOR TILTABLY SUPPORTING TUBS.

Application filed June 13, 1922. Serial No. 568,085.

To all whom it may concern:

Be it known that I, HENRY M. VAUGHAN, a citizen of the United States of America, and a resident of Newton, Jasper County, Iowa, have invented certain new and useful Improvements in Means for Tiltably Supporting Tubs, of which the following is a specification.

My invention relates to improvements in tilting-devices, and the object of my improvement is to furnish an auxiliary means for supporting a tub, a washing-machine, or any container in a tilted position in order to easily and quickly drain off the contents thereof by any suitable drain-cock thereof when desired.

This object I have attained by the means which are hereinafter described and claimed and which are illustrated in the accompanying drawings, it being understood that various slight modifications thereof are nevertheless covered by the protection of this invention.

In the drawings, Fig. 1 and 2 respectively show a tub in a horizontal and a tilted position, with my auxiliary tilting-device mounted on a support thereof respectively in a retracted and in an operative protracted position. Fig. 3 is an enlarged detail view of a preferred construction of the tilting-device as pivotally mounted on a tub leg, the full lines showing the device as retracted, and the dotted lines showing it in a protracted or extended position. Fig. 4 is another detail view of the device in a modified form. Fig. 5 is yet another modification thereof, and Fig. 6 is another modification thereof.

Similar numerals of reference denote corresponding parts throughout the several views.

An ordinary tub, barrel or other large container filled with a liquid is hard to support in a tilted position to drain off the contents by way of a drainage opening or cock, and this inconvenience is increased when in addition to the weight of the container and its contents is added, as in a mechanically-operated washing-machine the mechanism and heavy motor thereon.

I have therefore contrived and supplied a device which is easily and instantly adjusted from an inoperative retracted position to a position of extension relative to the tub or washing-machine to coact with the fixed legs or supports thereof to tilt the tub and to securely hold it in a suitably tilted position to

drain the tub at such an angle to the horizontal that the impetus of the escaping contents will sweep out all sediment therewith. The user will thus avoid all of the strain incident to muscularly holding the tub in its tilted position, so injurious to persons of frail physique.

I have shown an open top tub 5 supported in elevated relation to a supporting surface or floor on its fixed legs 4 in the usual manner, said tub being provided at one side of its bottom with a drain-cock 6. This tub may be of any size, shape, or form part of a washing-machine, while the container may be such as is suitable to contain any flowable contents, such as a barrel, firkin, tank or otherwise which may be shifted bodily to tilt it in order to discharge its contents.

My improved auxiliary tilting means in its simplest embodiment is displayed in said Fig. 6, wherein an angle-bracket 1—2 is secured by a bolt 3 or other means to a fixed leg 4 such as is provided as a stave-leg for a tub 5. An auxiliary leg 8 is pivoted at 7 at its upper end to said bracket, the latter being spaced above the lower end of the leg 4. The bracket-plate 2 is terminally extended beyond the leg 4, so that when the leg 4 is first lifted and the other leg 8 swung in one direction, this leg 8 will be stopped by the projection of the bracket-plate to hold the leg 4 as so raised and thus retain the tub 5 in a tilted position at an angle suitable for thorough drainage of its contents. When the tub has been thus emptied, it may be slightly lifted, and the leg 8 swung upwardly to the raised position shown by the dotted lines past its center of gravity toward the leg 4, where it is held by gravity while the tub is in a horizontal position.

In my preferred construction of the device as shown in Figs. 1 and 2, an arm 12 is terminally pivoted on the same pintle 7 as the leg 8 and carries at its free end a weight 13, which is wholly or partially built up of plates 14 held in position by the adjusting-screw 15, whereby the weight may be increased or decreased by the addition or subtraction of a plate or plates 14 as desired.

The arm 12 is limited in its opposite swinging movements over the leg 8 by engaging raised stop parts 9 on the leg, or by any equivalent means, such as is illustratively shown in said Fig. 4, wherein the arm 12 is terminally forked at 17 so that the inner edges of the forks may in turn engage a

stop-pin in the intermediate part of the leg 8 shown at 16. The leg 8 itself has its scope of opposite movements limited preferably by removable pins 10 in holes 11 in the
5 bracket 1.

It will be seen that the weighted arm 12—13 serves when swung past its dead center to tensionally yieldingly hold the leg 8 in either its retracted or in its protracted
10 or extended position as the case may be, as indicated by the full lines and by the dotted lines respectively in said Fig. 3. The leg is thus kept from accidental displacements and is always in its extreme position either way.

15 In Fig. 5 is shown a mechanically equivalent device for exerting a yielding tension upon the leg 8, and consists of a coiled spring 18 connected adjustably between a fixed pin 20 on the bracket 1 and either of the longitudinally-alined row of fixed pins 19 on the
20 leg 8. The spring likewise serves to yieldingly retain the leg in either extreme position.

When the leg 8 has been manually swung
25 to either a retracted position or to its protracted position, the weight, or the said spring as the case may be, shifts or extends so as to act oppositely upon the leg relatively to its dead center, to thus tend to draw it to
30 its extended position or to retract it under

the tub, in which latter position it is entirely out of the way of the operator.

Having described my invention, what I claim as new, and desire to secure by Letters
Patent, is:

1. A tilting device for tubs and the like, comprising a fixed leg on the tub having a bracket, an auxiliary leg having at one end a pivotal connection to the bracket, means for limiting outward movement of the auxiliary leg, an arm pivoted at one end on said
40 pivotal connection, a weight mounted on said arm, and means for limiting the scope of movement of said arm.

2. A tilting device for tubs and the like, comprising a fixed leg on the tub having a bracket, an auxiliary leg having at one end a pivotal connection to said bracket, means for limiting outward movement of the auxiliary leg, an arm pivoted at one end on said
50 pivotal connection, means for limiting the scope of movement of said arm in either of opposite directions, and a weight mounted on the free extremity of said arm and made up of a plurality of separably connected
55 parts.

Signed at Newton, Iowa, this 3 day of June, 1922.

HENRY M. VAUGHAN.