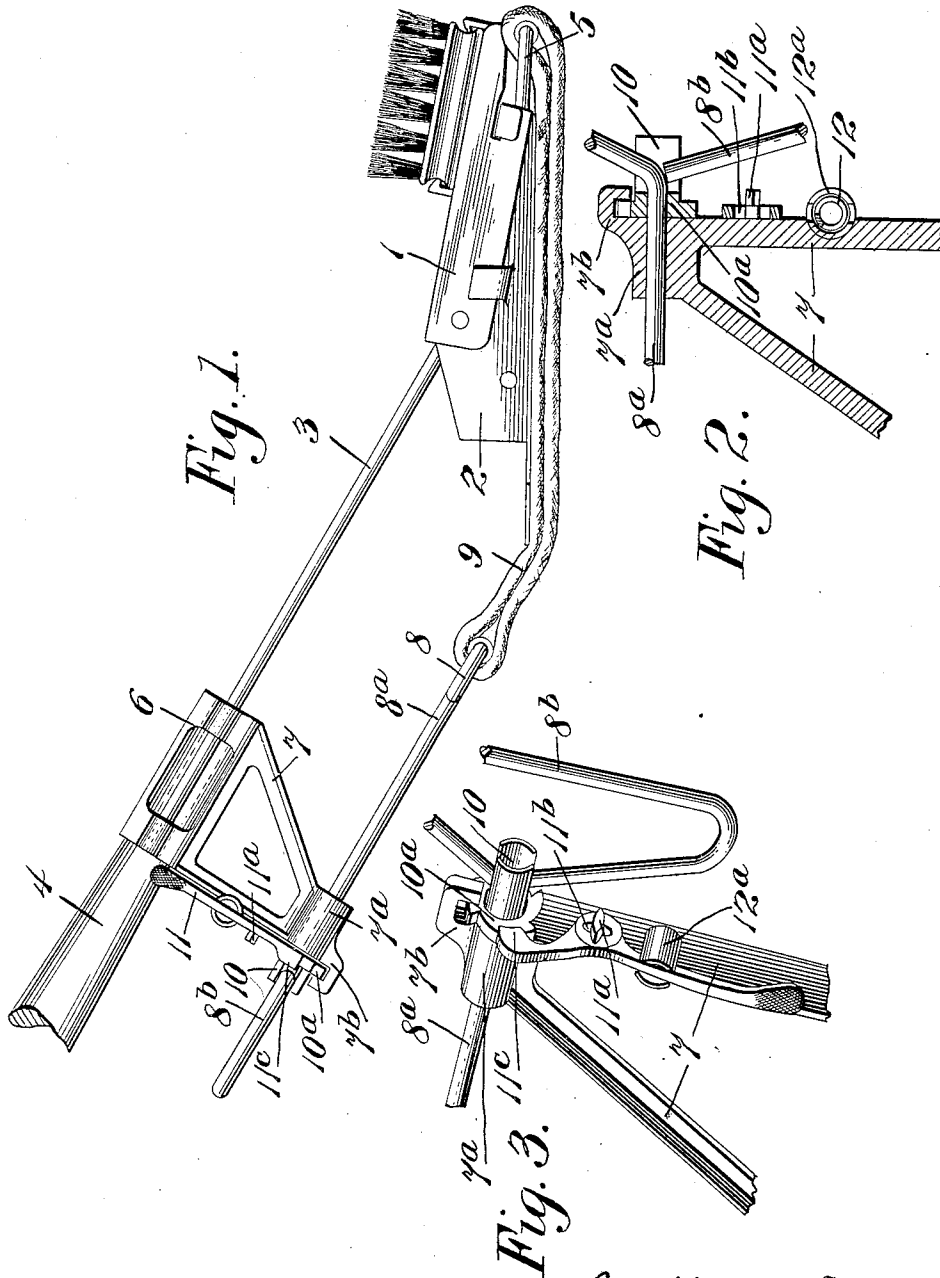


J. O. BEAZLEY.
WRINGING DEVICE.
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1,042,072.

Patented Oct. 22, 1912.



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JOSEPH O. BEAZLEY, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE BRUSH MOP WRINGER MANUFACTURING COMPANY, OF BALTIMORE, MARYLAND, A CORPORATION OF MARYLAND.

WRINGING DEVICE.

1,042,072.

Specification of Letters Patent.

Patented Oct. 22, 1912.

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To all whom it may concern:

Be it known that I, JOSEPH O. BEAZLEY, a citizen of the United States of America, and a resident of Baltimore, Maryland, have invented certain new and useful improvements in Wringing Devices, of which the following is a specification.

In another application filed by me on the 1st. day of February, 1910, Serial Number 541,375, I have disclosed certain new and useful improvements in a combined brush and mop holder which structure comprises two separable frames, one of which is provided with clamping means to hold a brush, and the other parts being provided with a mop carrying loop, the parts having a common handle carrying a second loop. In that application I have disclosed means by which the last named mop carrying loop may be twisted for the purpose of wringing the mop and whereby it may be retained in a twisted position until released at the will of the operator.

My present invention consists of further improvements on the wringing mechanism whereby the cost is lessened due to the fact that all machined parts may be dispensed with without detriment to the utility and serviceability of the device.

For this purpose the invention consists in the construction, combination and arrangement of the several parts of which it is composed as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings in which parts are designated by corresponding marks of reference: Figure 1 is a side elevation of a combined brush and mop holder constructed in accordance with the description of my prior application embodying a special form of mop wringing mechanism herein described and claimed. Fig. 2 is a detail central section through such mechanism. Fig. 3 is a perspective view thereof.

As disclosed in my prior application the combined brush and mop holder comprises a brush plate 1 and a mop plate 2, which are secured together by the wire bail 3 projecting through the end of the handle 4. The mop plate 2 carries on its forward end a mop loop 5. Upon a ferrule 6 mounted upon the end of the handle 4 projects a depending bracket bearing 7 having the bearing 7^a in the outer end thereof. Projecting

through the bearing thus formed is a stem 8^a of the rear mop loop 8, the stem in the rear of such bearing being formed into a loop handle 8^b. The mop 9 is by preference in the form of a belt and passes over the mop loops 5 and 8.

Mounted slidably upon the stem 8^a of the rear mop loop is a ratchet wheel 10^a the rear end being formed into a bifurcated hub or sleeve to receive the handle part 8^b of the stem. Engaging the ratchet wheel 10^a is a spring pressed dog 11 pivoted on a cross headed stud 11^a on the frame 7, the aperture 11^b in the dog being elongated to permit the assemblage of the parts when in one position and cause them to lock when shifted therefrom. The dog 11 has its nose provided with a guide 11^c which overlies the face of the ratchet wheel and thus retains the dog in alinement with the wheel, and also prevents the shifting of the sleeve and wheel under the lateral movement of the wringer stem as will be hereinafter described. This lateral movement of the sleeve and ratchet wheel is further prevented by a finger 7^b formed upon the head of the bearing 7^a. The nose of the dog is normally held in engagement with the ratchet wheel by means of a spring 12 contained in a recess boss 12^a on the frame 7, said boss being bifurcated to permit the movement of the pawl.

Under the construction above described it will be seen that by turning the rear loop in the bearing 7^a the mop can be twisted and thus wrung, and the reduction in length thereof, due to the twisting will move the shaft 8^a longitudinally in its bearing and bring the handle 8^b thereon into the bifurcated end of the sleeve 10 whereby it will be locked to the sleeve, and as the latter is locked against rotation by the dog, the untwisting of the mop while the operator is retaining a new hold upon the loop will be prevented. When it is desired to release the rear loop it can be done by forcibly pulling back this shaft so as to disengage the sleeve and handle or the dog may be disengaged from the ratchet wheel, the last named being the preferred operation.

In the assemblage of the parts the shaft 8^a will have the mop carrying loop formed thereon and will then be inserted through the bearing 7^a and through the wheel 10^a,

after which the wire of which the shaft 8^a is composed is bent to form the handle 8^b thus securing the parts together.

It is obvious that if so desired no rear-
5 ward movement may be given to the rear loop in wringing but that the wheel may be turned with the loop at such times being held by the ratchet and released thereby. Indeed when the mop has been fully twisted
10 it will be impossible to move the rear loop rearwardly and at such times the ratchet mechanism must be used.

Having thus described my invention what I claim and desire to secure by Letters
15 Patent is:—

1. The combination of a mop head having a mop carrying loop, a handle for the mop head, a rotary and slidable mop loop carried by the handle, a mop carried by the
20 said loops and means to lock the rotary loop against rotation in one direction when it has moved to the end of its sliding movement in one direction, the loop being free at such time for further rotation.

25 2. The combination of a mop head, having a mop carrying loop, a handle for the mop head, a rotary and slidable mop loop carried by the handle, a mop carried by the said loops and means comprising a dog
30 and ratchet to lock the rotary loop against

rotation in one direction when it has moved to the end of its sliding movement in one direction, the loop being free at such times for further rotation in the other direction.

3. In a mop wringer the combination with 35 a front loop, of a slidable rear rotary loop having a handle, a sleeve surrounding the shank of the last named loop and having a bifurcated rear end adapted to receive the handle of the rotary loop, means for lock- 40 ing the sleeve against rotation and a mop carried by the loops.

4. In a mop wringer, the combination of a front loop of a rear loop having a straight shank and a cross handle upon the rear end 45 thereof, a bearing for the shank of the last named loop, a ratchet wheel having a bifurcated hub formed integral therewith, means for retaining the ratchet wheel against longitudinal movement in respect to the bear- 50 ing and a dog adapted to engage the said ratchet wheel, the shank of the rear loop being slidably mounted in the ratchet wheel.

In testimony whereof I have signed my name in the presence of two witnesses.

JOSEPH O. BEAZLEY.

Witnesses:

HARRY F. OGDEN,
HARRY T. WINTER.