R. B. GOODRICH.

WASHING MACHINE DOLLY.

APPLICATION FILED APR. 15, 1909.

969,359. Patented Sept. 6, 1910.

Fig. 1

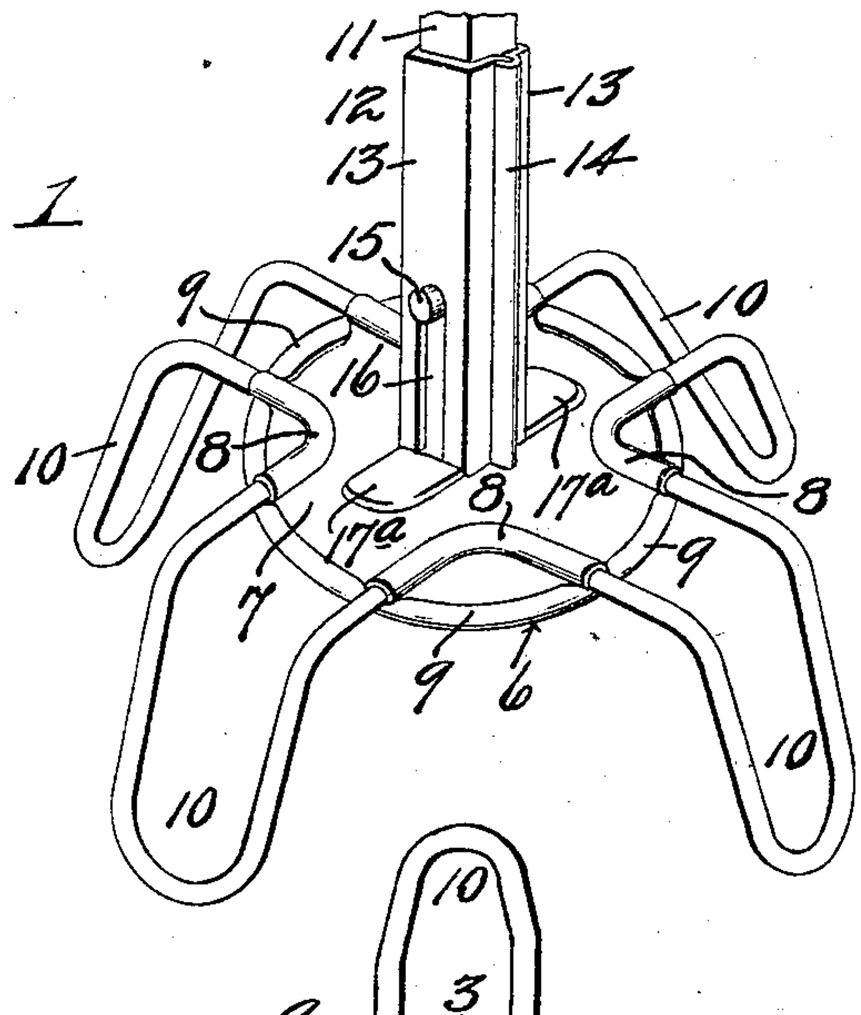


Fig. 2.

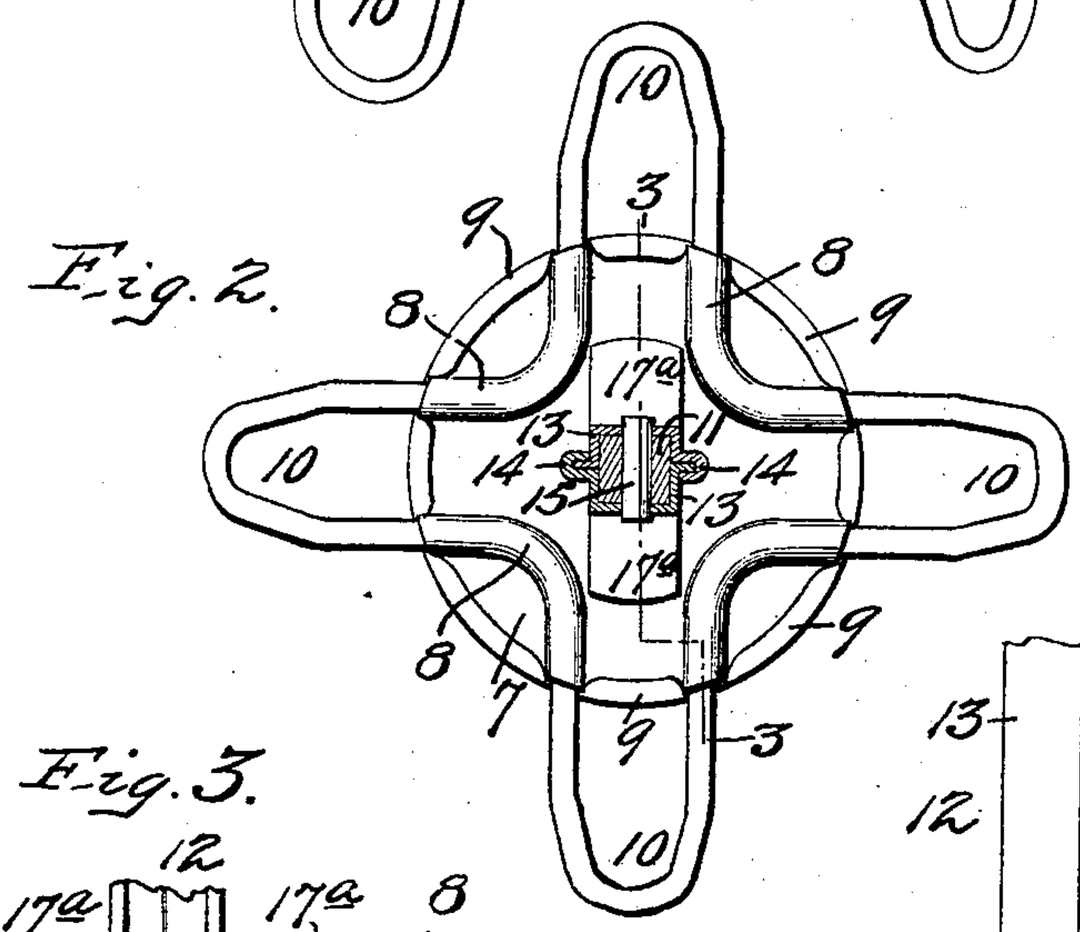


Fig. 5.

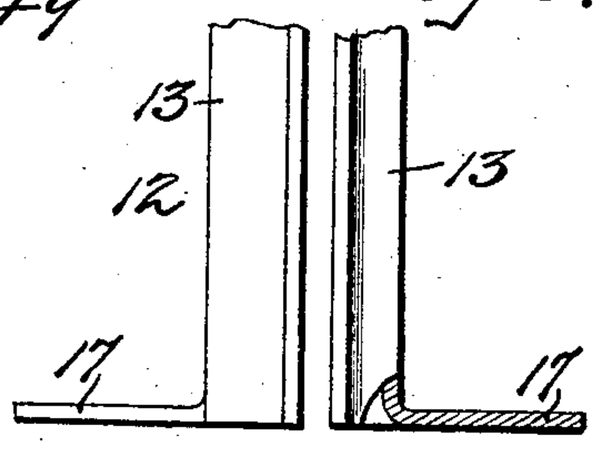


Fig. 3.

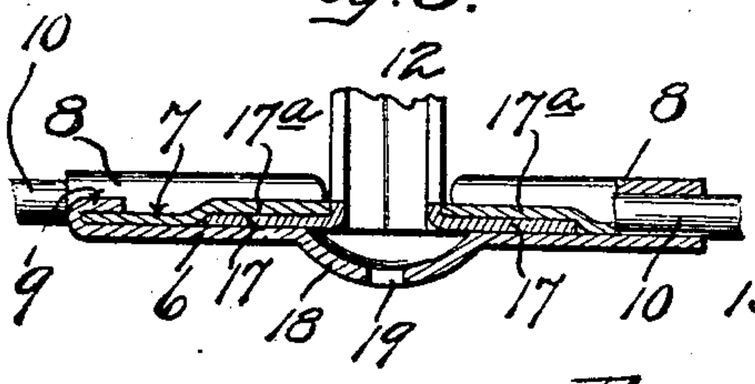
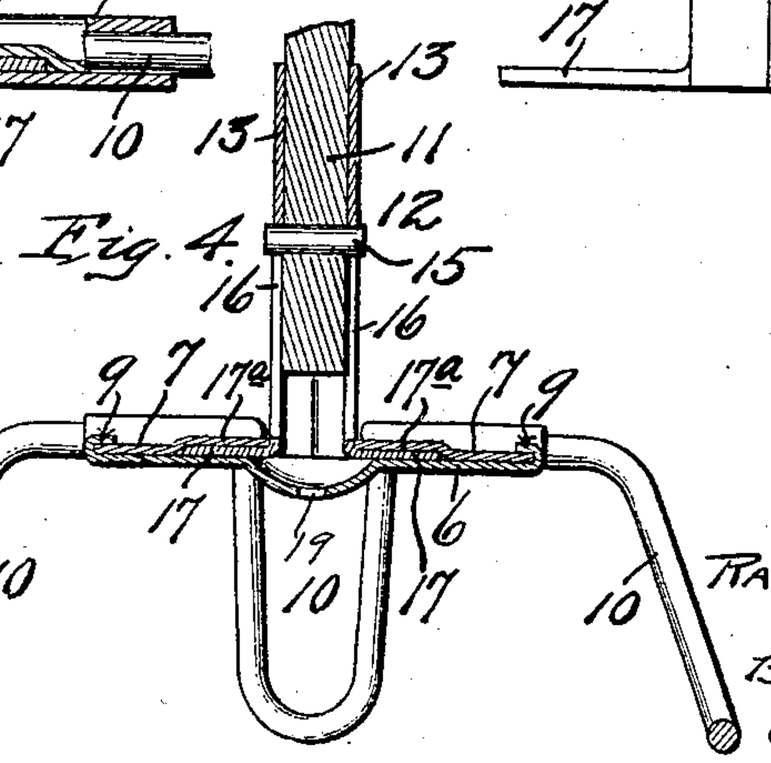


Fig. 4.



Witnesses

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RALPH B. GOODRICH, OF CINCINNATI, OHIO.

WASHING-MACHINE DOLLY.

969,359. Specification of Letters Patent. **Patented Sept. 6, 1910.**

Application filed April 15, 1909. Serial No. 490,089.

To all whom it may concern:

Be it known that I, RALPH B. GOODRICH, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Washing-Machine Dollies, of which the following is a specification.

Up to the present time, so far as I am aware, it has usually been the custom to employ wooden dollies or agitators. There are, however, certain objections to the same. For example, wood of a particular character must be employed, and this wood is becoming scarce, and is consequently increasing in cost. Furthermore, inasmuch as the wood floats, the articles at the bottom of the tube are not as apt to be engaged and operated upon as those at the top. Then again, it is almost impossible to secure the pegs or agitating fingers so that they will not become loose.

The primary object of the present invention is to provide a novel, simple and practicable structure, which is much cheaper to manufacture, and has very decided advantages over the wooden dolly or agitator.

While the invention may be embodied in several different ways, the preferred form of construction is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the dolly or agitator, showing the same mounted on an operating shaft. Fig. 2 is a plan view of the same, partly in section. Fig. 3 is a detail cross sectional view on the line 3—3 of Fig. 2. Fig. 4 is also a sectional view showing the device in place on the operating shaft. Fig. 5 is a detail view of portions of the stem sections.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, a metallic head is employed that is composed of a lower sheet metal disk section 6 and an upper sheet metal disk section 7, the latter having upstanding angularly disposed ribs 8 producing internal channels. The portions of the margins of the lower section 6 between the ends of the ribs or channels are flanged over the corresponding portions of the upper section, as illustrated at 9. Consequently the two sections are effectively clamped together as will be obvious.

Engaged in the channels formed by the ribs 8, is a wire formed into projecting loops 10 that are downturned, as shown, and thus produce agitator fingers. Preferably a single wire is employed. It will thus be seen that these fingers are effectively clamped between the two head sections. The device is intended to be mounted on the usual actuating shaft of the washing machine, and a portion of said shaft is illustrated at 11. To this end, a tubular stem 12 is employed, which is formed of sheet metal sections 13 flanged together, as shown at 14, said stem slidably receiving the shaft 11 and being secured thereto by a cross pin 15 or other suitable device, which passes through the shaft and is engaged in longitudinal slots 16 formed in the sections. The lower ends of these sections have outstanding feet 17, which are located and clamped between the two head sections 6 and 7, the latter section being stamped to provide recessed seats 17^a for the feet. The lower head section 6 is furthermore preferably provided with a central depressed portion 18 in line with the stem and having a vent 19 therethrough, for draining the stem or socket.

The device is used in the ordinary manner, and has a number of decided advantages over the wooden dolly or agitator now in common use. In the first place, it can be manufactured much cheaper, is stronger, and more serviceable. It also engages the clothes better, inasmuch as it keeps sinking down into them. It will be obvious that the different parts will retain their relative positions, and there is nothing that can become loosened or displaced.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is:—

1. An all-metal dolly comprising a sectional metal head, a metallic stem having interlocking connection with, and held by, the sections of said head, and metallic fingers clampingly secured by the head sections.

2. A dolly or agitator of the character described, comprising a head composed of sheet section disks, the margin of one disk being flanged over the margin of the other, one of said disks furthermore having angular channels, agitator fingers formed of downwardly looped wire engaged in the channels and clamped between the sections, and a tubular stem composed of sections secured together and having outstanding feet clamped between the head sections.

3. A dolly or agitator comprising a metallic head, a tubular stem consisting of duplicate sections jointed together and interlocked with the head, and fingers carried by the head.

4. A dolly or agitator comprising a sectional metallic head, a tubular metallic stem consisting of duplicate sections jointed together and interlocked with the head, and metallic fingers clamped between the sections of the head.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

RALPH B. GOODRICH.

Witnesses:
R. C. Braddock,
Emory L. Groff.