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C. J. VASGREEN

CLOTHES POUNDER

Filed March 7, 1923

Fig. 1.

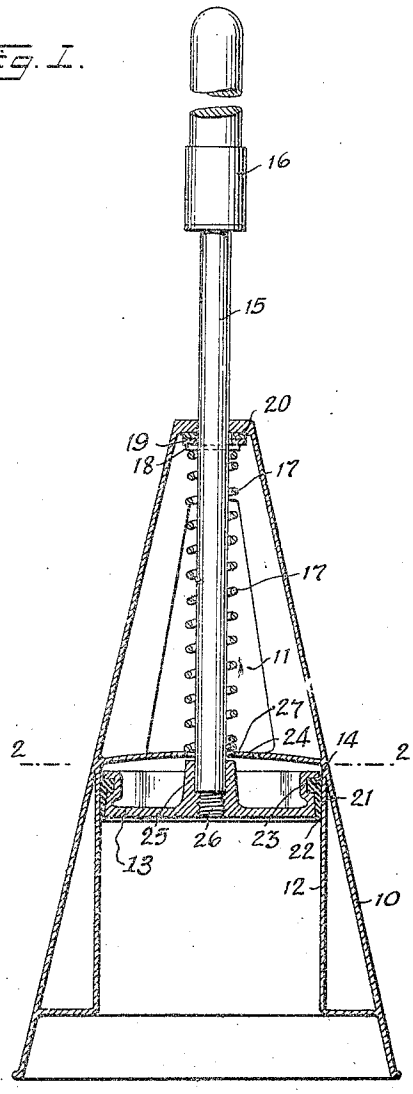
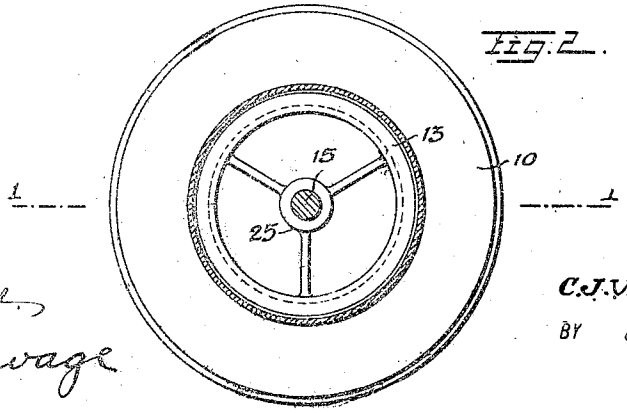


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

CON JAMES VASGREEN, OF MOGOLLON, NEW MEXICO.

CLOTHES POUNDER.

Application filed March 7, 1923. Serial No. 623,456.

To all whom it may concern:

Be it known that I, CON JAMES VASGREEN, a citizen of the United States, and a resident of Mogollon, in the county of Catron and State of New Mexico, have invented new and useful Improvements in Clothes Pounders, of which the following is a full, clear, and exact description.

The general object of this invention is the provision of a simple and efficient clothes pounder provided with means for forcing air and water through the articles to be washed to carry out the cleansing operation.

This object is accomplished by providing a casing, in the lower end of which a cylinder is formed, slidably mounting in the cylinder a piston provided with an expansible piston ring, and providing, in conjunction with the piston, means for operating it.

These and other objects of the invention will be more clearly understood from the following detailed description and accompanying drawings.

Figure 1 is a vertical section along the line 1—1, Figure 2;

Figure 2 is a transverse section along the line 2—2, Figure 1.

Referring to the above-mentioned drawings, the invention includes a casing 10 the shape of a truncated cone. Formed in the lower end of the casing is a cylinder 12 having a transverse wall 24 constituting its head extending across its upper end. A plurality of lateral openings 11 are provided in the upper portion of the casing above the wall 24. Slidably mounted in the cylinder 12 is a piston 13, in the upper portion of which a circumferential groove 23 is formed. Formed integral with the piston 13 is a hub 25 having an internal thread. A vertical shaft 15, the lower end of which is threaded at 26, is slidably mounted in the casing projecting through an opening 27 in the transverse wall or head 24, the threaded portion engaging the internal thread of the hub 25. Attached to the upper end of the vertical shaft 15 is a handle 16 for operating it. Mounted on the vertical shaft 15, the lower end resting on the transverse wall or head 24, is a spring 17. The upper end of this spring engages a pin 18 projected through an opening in the shaft 15. Two washers 19 and 20 are mounted on the shaft and supported by the pin 18. These washers are made from rubber or some similar material so that as the vertical shaft 15 is projected upward they will receive and cushion the pin 18 and prevent noise. A piston ring 21 having integral therewith an inwardly extending annular flange 14 is mounted on the piston 13, the annular flange 14 fitting in the circumferential groove 23, and the diameter of this ring is such that it has a loose sliding fit in the cylinder. The lower edge 22 of the piston ring 21 projects below the piston 13. The piston ring is made from a material possessing a certain amount of elasticity so that on the downward stroke of the piston the piston ring spreads outward, sweeping the walls of the cylinder 12. On the upward stroke of the piston the walls of the piston ring 21 tend to collapse, allowing air to pass down between the piston ring and the cylinder wall.

The operation of this device is as follows:

The clothes pounder is projected into the wash water, placing the mouth of the casing 10 over the articles to be washed. The vertical shaft 15 is then forced downwardly operating the piston 13. As the piston 13 moves downward, the lower portion of the piston ring spreads outward, sweeping the sides of the cylinder 12, and forcing air and water through the articles to be washed. This passage of air and water through the articles to be washed carries on the washing process. Air flows into the casing through the openings 11 and into the cylinder through the openings 27. When the piston is drawn upward the piston ring 21 tends to collapse and allows air to pass between it and the walls of the cylinder. The piston is given its upward movement by the spring 17 which is compressed or energized on the downward movement of the shaft 15.

I would state in conclusion that while the illustrated example constitutes a practical embodiment of my invention, I do not limit myself strictly to the exact details herein illustrated since manifestly the same can be considerably varied without departing from the spirit of the invention as defined in the appended claims.

Claims:

1. A device of the character described, comprising a casing the shape of a truncated cone and having lateral air inlet openings in its upper portion, a cylinder having a top wall provided with a relatively large central opening therethrough, and located near the bottom of said casing, a piston having an expansible piston ring mounted thereon and

loosely and slidably mounted in the cylinder, and means for operating the piston.

2. A washing device of the character described, comprising a truncated cone-shaped casing, a cylinder formed in the lower portion of said casing, a piston loosely slidably mounted in said cylinder, an expansible piston ring mounted on the piston, a wall formed integral with the casing and extending transversely across the upper end of the cylinder, said wall having a relatively large central opening therethrough, a vertical shaft slidably mounted in the casing and in said wall and connected to said piston for operating it, and a spring mounted on said shaft within the casing bearing at one end on said transverse wall and connected to the vertical shaft for giving the vertical shaft its upward movement.

3. A washing device of the character described comprising a truncated cone-shaped casing having a cylinder formed in its lower portion, the cylinder head having a central opening therethrough, a piston loosely and slidably mounted in said cylinder, an expansible piston ring mounted on said piston, a vertical shaft slidably mounted in the casing and cylinder for operating the piston, a transverse pin extending through said shaft, and sound-deadening cushioning washers mounted on said shaft and supported by said pin, and a coil spring mounted on said washer within the casing and co-operating with the vertical shaft and the head of the aforesaid cylinder to give the shaft its upward movement.

CON JAMES VASGREEN.