F. C. RANDALL.

FRUIT WASHER.

APPLICATION FILED JULY 19, 1917.

1,245,767.

Patented Nov. 6, 1917.

Fig. 1.

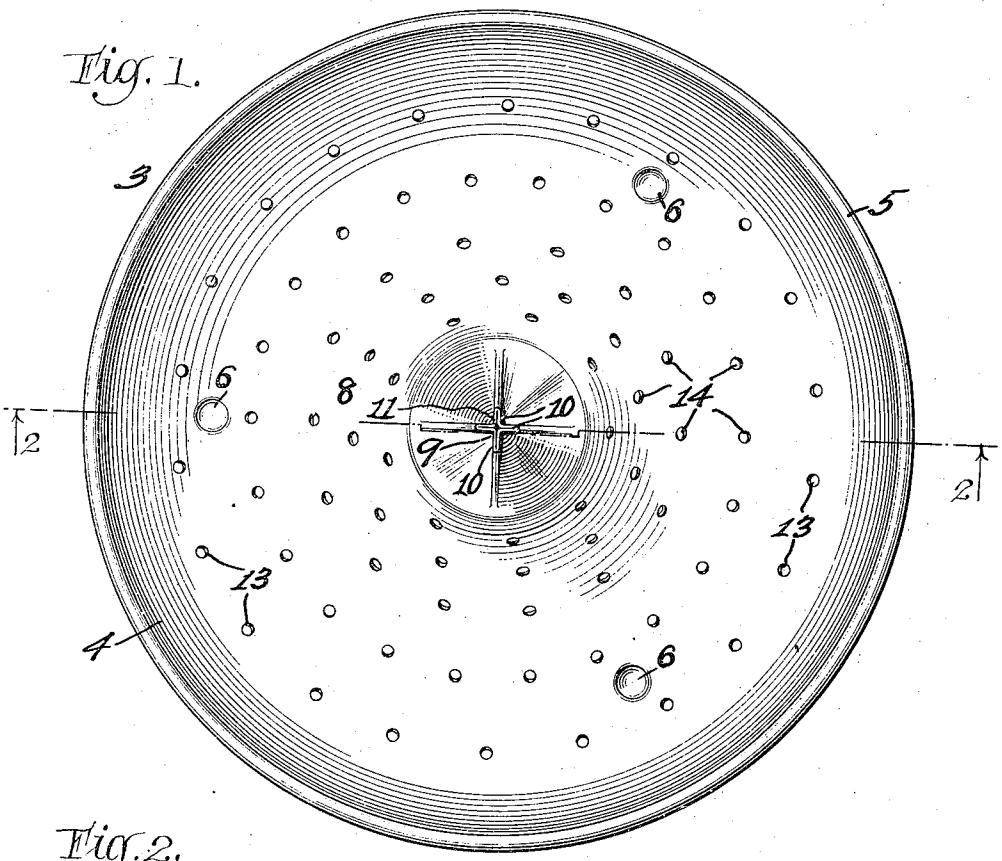
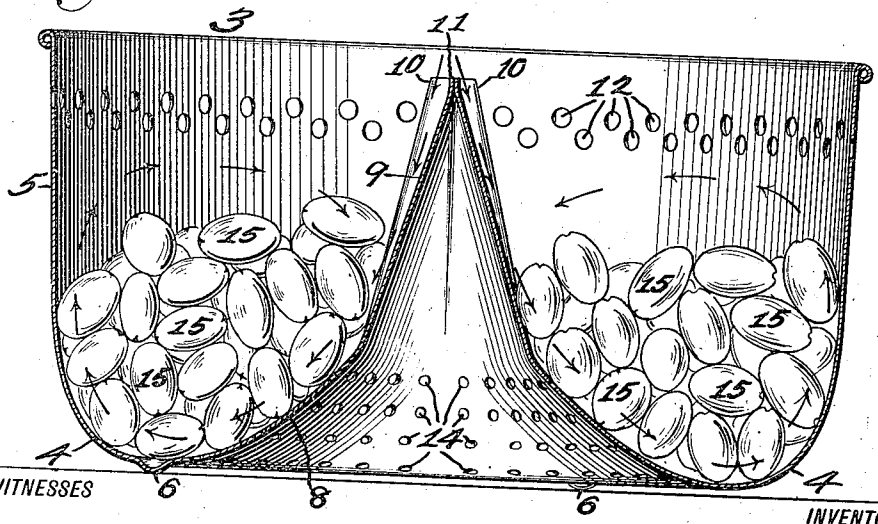


Fig. 2.



WITNESSES

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FRANK CALVIN RANDALL, OF BENTON HARBOR, MICHIGAN.

FRUIT-WASHER.

1,245,767. Specification of Letters Patent. Patented Nov. 6, 1917.

Application filed July 19, 1917. Serial No. 181,497.

To all whom it may concern:

Be it known that I, FRANK C. RANDALL, a citizen of the United States, and a resident of Benton Harbor, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Fruit-Washers, of which the following is a specification.

My invention relates to the washing of fruits, vegetables, etc., and is an improvement over the form shown and described in Letters Patent of the United States, No. 1,161,727, issued to me on the 23rd day of November, 1915, in that the present form is more economical in manufacture, avoids all abrupt angles tending to check the flow of water therethrough, may be made of one piece of metal, dispenses with the separate legs of the patented form, provides a dome having integral fins tending to center the dome within a faucet, pipe, hose or the like, which affords a rapid exit for sand, dirt, etc., and the formation of which is such as to permit the nesting of a relatively large number thereof in a given space.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which like characters refer to like parts in each of the views, and in which:—

Figure 1 is a top plan view of my invention; and

Fig. 2 is a section taken on the line 2—2 of Fig. 1.

Referring to the drawings, 3 represents a receptacle inwardly curved at 4 at the bottom of the wall 5 and provided with integral downwardly projected bosses 6 forming legs upon which the receptacle may be supported.

The bottom 7 is upwardly and inwardly tapered at 8 and merges into a tapered dome 9 having integral radial fins 10 on the outer surface thereof formed by pressing the upper end of the dome to a point at 11 whereby water channels are formed between said fins, and these fins serve as centering means for the dome within a faucet, pipe, hose, or the like into which said dome is inserted, the fins being downwardly and outwardly inclined at their edges to adapt the dome to varying diameters of water conduits.

The wall 5 is provided with a plurality of perforations 12 adjacent its top and with a plurality of perforations 13 in the curved portion 4, and the upwardly tapered bottom 7 is also provided with horizontal rows of perforations 14, any desired number of rows being provided, and the different sets of perforations may be of any desired number and of any desired diameters.

When the articles to be washed, shown at 15, are in the receptacle 3 and the dome 9 inserted into a suitable water conduit, the water rushes down between the fins 10, is outwardly diverted by the curvature of the bottom 7 and upwardly by the curved lower portion 4 of the wall 5 and, by reason of the direction of flow thus caused, passes inwardly toward the dome 9 and again downwardly toward the curved bottom 7, as shown by the arrows in Fig. 2, thereby flowing beneath and between the articles 15 and causing them to roll upon each other whereby all portions of the surfaces of the articles are exposed to the rushing water and all extraneous matter not washed off by the flow of water is rubbed off by contact one with another.

Further, the contained articles 15 follow the path of water flow and they not only rotate upon their own axes but they also revolve around an imaginary center in the mass of articles, each article bumping from one to another adjacent article and from the wall 5 to the dome 9 and bottom 7 and back to wall 5 as long as the flow of water continues, thereby rubbing off any foreign matter on their surfaces because of these glancing blows and thereby presenting their entire surfaces to the action of the flow of water.

My invention is very simple in construction and use, is highly efficient, and comparatively inexpensive, and, while I have shown a preferred form, I reserve the right to make such changes thereover as properly come within the scope of the appended claims.

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

1. A device of the class described, comprising a receptacle formed of side walls inwardly curved at the lower portion to avoid angularity, an inwardly and upwardly curved bottom member continued from the curved portion of the side walls, and a dome member upwardly continued from said bottom member whereby a stream of water on said dome is guided in a curved path to the side walls and back to the dome, said side

walls and bottom member being perforated, to permit the escape of sand, dirt, and the like.

2. A device of the class described, comprising a receptacle formed of side walls inwardly curved at the lower portion to avoid angularity, an inwardly and upwardly curved bottom member continued from the curved portion of the side walls, a dome member upwardly and inwardly tapered continued from said bottom, and a plurality of radial fins on said dome whereby a stream of water led to said dome will be divided, and the divisions will be guided in a curved path over said bottom member to said side walls and back to said dome, said walls and bottom member being perforated to permit the escape of sand and dirt.

FRANK CALVIN RANDALL.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."