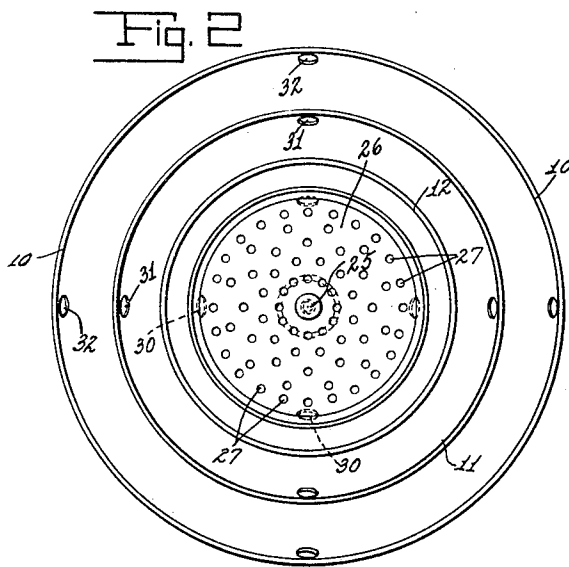
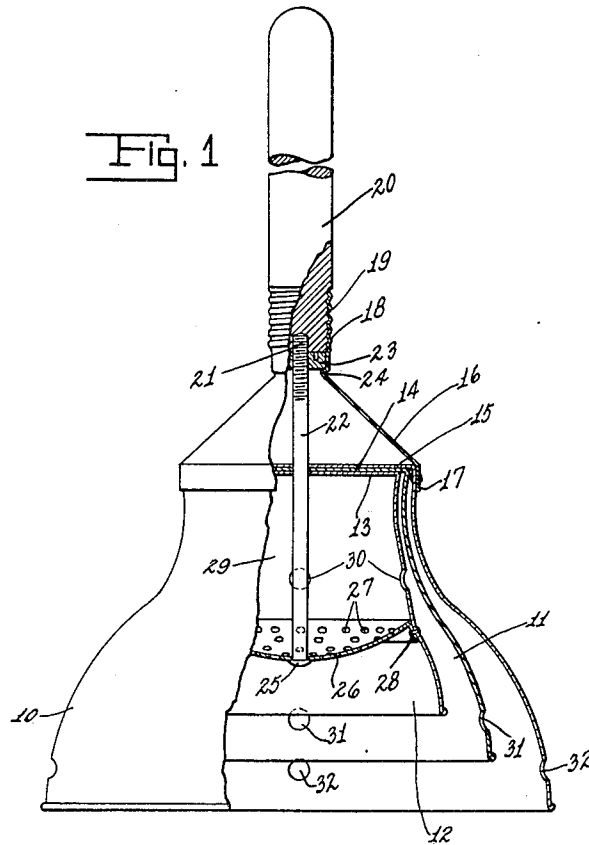


E. BALDWIN.
CLOTHES WASHER.
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Witnesses:
C. Bartels
G. J. Brand

Inventor
Edward Baldwin
By his Attorneys
Criswell Criswell

UNITED STATES PATENT OFFICE.

EDWARD BALDWIN, OF NEW YORK, N. Y., ASSIGNOR TO RADIUM WASHING COMPOUND PRODUCTS COMPANY, INC., A CORPORATION OF NEW YORK.

CLOTHES-WASHER.

1,085,397.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD BALDWIN, a subject of the King of England, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Clothes-Washers, of which the following is a full, clear, and exact description.

This invention relates more particularly to a device which is adapted to be manually operated so as to pound the clothes and by the utilization of force and suction to cleanse the clothes acted on by said device.

One of the principal objects of the invention is to provide a simple and efficient device comprising a plurality of parts which are positively held together and in such a way that they may be disconnected, and which parts serve to create a vacuum within the device and to cause suction to draw the water through the clothes in one direction when the device is operated in one way, and to force the water or cleaning fluid through the clothes when moved in the opposite direction, thus avoiding the necessity for rubbing or manipulating the clothes in the usual way which often results in injury to the clothes.

Another object of the invention is to provide a device which may be made of sheet metal, as copper, and readily spun or formed into the desired shape, and which parts are not likely to be broken and require no soldering for holding the parts together.

A further object of the invention is to provide a device which is light and durable, and in which a maximum amount of suction may be obtained and which requires less work to operate than devices of this kind as ordinarily constructed.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a side elevation, partly in section, of one form of device embodying my invention; and Fig. 2 is an inverted plan view.

The device comprises a plurality of members 10, 11 and 12. These members are substantially bell-shaped in form and are separated from each other by suitable spaces. The members are of relatively different

lengths, the inner shell or member 12 being the shortest, and the member or shell 11 while longer than the shell 12 is somewhat shorter than the outer shell or member 10. The members 10, 11 and 12 may be made of copper or other material so that the same will not corrode and each may be beaded at its lower edge to strengthen the same. Each of the members 10, 11 and 12 is provided with a closed end formed as a part of the said member. The member 12 is closed by an integral partition or part 13, the member 11 by a partition or part 14, and the member 10 by a partition or part 15. The outer member or shell 10 has a conical part 16 held thereto by means of a flange 17 or otherwise and said conical part 16 has a sleeve portion 18 in which a thread 19 is spun and which is adapted to receive the end of a handle or manipulating member 20. The handle 20 may be of wood or of any suitable material and length, and at one end is made to engage the threads 19 and also the upper threaded end 21 of a brass or other bolt 22, the threads of the said bolt 22 being of substantially the same pitch as the threads 19 of the sleeve 18.

A nut 23 is adapted to engage the threads 21 of the bolt 22 and this nut may be of a spanner type having recesses or slots to receive a spanner to rotate the same and is adapted to be seated upon a rib 24 in the conical part 16 of the member 10 under the sleeve 18 so that the said nut may be prevented from passing into the part 16 and still be rotated on the bolt to cause the same to be moved thereby. The bolt 22 has a head 25 adapted to engage under a semi-spherical or outwardly bulged head 26. This head 26 is provided with a number of openings 27 to form a strainer and at its outer edge may be provided with a flange, as 28, secured to the inner surface of the inner member or shell 12. By tightening the nut 23, the bolt 22 which passes through the partitions 13, 14 and 15, will force the partition 13 of the inner member 12 against the partition 14 of the intermediate member 11 and the partition of the latter member against the partition 15 of the outer shell or member 10, thus holding the said members detachably and positively together.

It will be evident that by forming the members 10 and 11 in the form shown with an enlarged lower portion and a substantially narrow upper portion, a greater sur-

face of the clothes is affected by the device while pounding or manipulating the clothes to cleanse the same, and that the cleansing fluid is caused to pass within the spaces between the members. In the downward movement of the device the cleansing fluid, as water containing proper cleansing material, will be forced within the member 12 through the openings 27 into the air chamber 29 formed between the strainer head 26 and the partition 13. The fluid will then pass out of the chamber 29 through a plurality of openings 30 formed in the wall of the member 12 and into the space between the member 11 and the member 12. The fluid will then pass from this space between the members 11 and 12 through a plurality of openings 31 formed near the lower edge of the member 11 and out through a plurality of openings 32 in the outer shell or member 10. Of course some of the water in the downward movement of the device as it enters the different members may also pass out of the openings 31 and 32. This action of the device will force the fluid positively through the clothes in one direction. As soon as the device is moved in the opposite direction or away from the clothes, suction will be created within the device and within the chamber 29 of the inner member 12 and will draw the water or fluid from the opposite side of the clothes through the same. This operation of the device continues to force and draw the water through the clothes as long as the same is manipulated and in this way will serve to effectually cleanse the clothes.

It will be understood that the device may be otherwise changed in details so long as it is within the scope of the claims without departing from the character of the invention.

From the foregoing it will be seen that a simple and efficient device is provided; that said device has a plurality of members so formed as to secure a maximum amount of vacuum and suction; that said device is simple in construction and is not likely to get out of order or to become injured while in use; and that said device is inexpensive to manufacture.

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

1. A device of the character described, comprising a plurality of substantially bell-shaped members concentrically arranged and of relatively different lengths, each member having a plurality of openings

therethrough adjacent the lower edge thereof, a strainer head held to the inner member, means for detachably holding the members together, and means whereby a handle may be attached to the device.

2. A device of the character described, comprising a plurality of members concentrically arranged, each member having a plurality of openings therethrough adjacent the lower edge thereof, and a strainer head held to the inner member.

3. A device of the character described, comprising a plurality of substantially bell-shaped members concentrically arranged and of relatively different lengths, each member having a plurality of openings therethrough adjacent the lower edge thereof and each having a separately closed upper end, and a strainer head held to the inner member.

4. A device of the character described comprising a plurality of concentric bell-shaped members of different lengths and diameters, a threaded sleeve secured to the outer member and having a contracted portion forming a seat, means for clamping said members together including a bolt having its head engaging a part of the inner member, and a nut arranged on said seat and around the bolt, said bolt projecting through the nut into the sleeve, and a handle screwed into said sleeve and onto the projecting end of the bolt.

5. A device of the character described, comprising a plurality of bell-shaped members of relatively different lengths and diameters and each having a separate closed upper end, said members being arranged concentrically to form spaces between the same, a head forming a part of the inner member and having openings therethrough and forming an air chamber within said member, a bolt engaging the head of the inner member and extending through the upper ends of all the members, a threaded sleeve secured to the outer member and having a contracted portion forming a seat, a nut arranged on said seat and around the bolt for holding the members firmly together, said bolt projecting through the nut into the sleeve, and a handle screwed into said sleeve and onto the projecting end of the bolt.

This specification signed and witnessed this 22nd day of May A. D. 1913.

EDWARD BALDWIN.

Witnesses:

LESTER C. TAYLOR,
C. BARTELS.