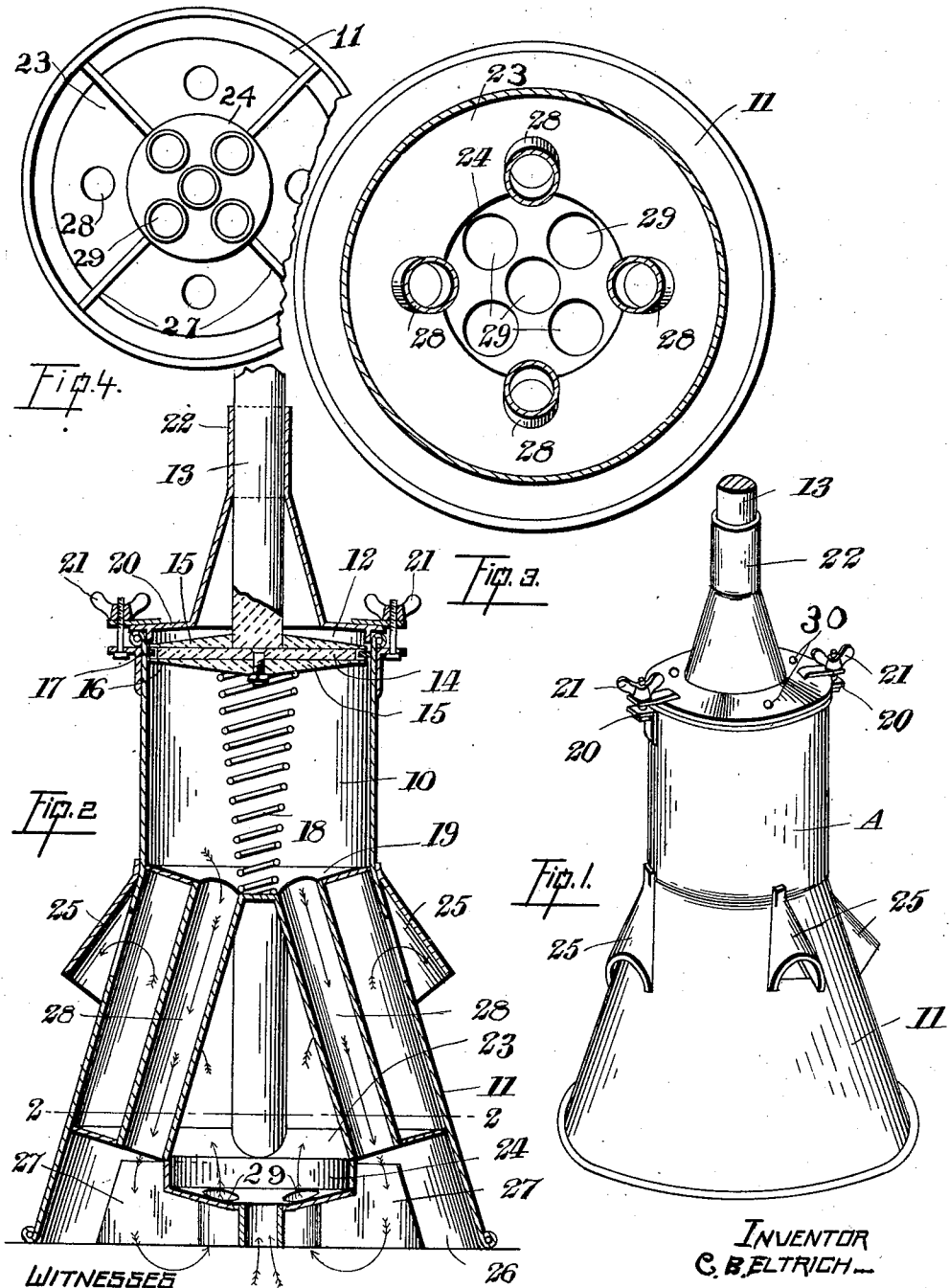


C. B. ELTRICH.
CLOTHES WASHER.
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1,058,044.

Patented Apr. 8, 1913.



WITNESSES
Wm. A. May
McClure & Co.

BY

C. B. Eltrich
ATT'Y.

UNITED STATES PATENT OFFICE.

CHARLES B. ELTRICH, OF CAMROSE, ALBERTA, CANADA.

CLOTHES-WASHER.

1,058,044.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES B. ELTRICH, of the town of Camrose, in the Province of Alberta, Dominion of Canada, have invented certain new and useful Improvements in Clothes-Washers, of which the following is a specification.

My invention relates to the manually operated clothes washers and the object of my invention is to provide a clothes washer of the type wherein air is the chief factor in the operation thereof.

A further object of my invention is to provide an improved means for attaining the complete circulation of the air through the clothes during the action of the washer.

Minor objects are to provide suitable drainage means in the washer itself and to construct said washer of few and simple parts.

In brief my invention consists of a cylinder in which reciprocates a manually operated piston adapted to force the air through a plurality of passages into the articles to be washed, all of which will be hereinafter more particularly described in the accompanying drawings and specification.

In the drawings: Figure 1 represents a perspective view of the device. Fig. 2 a vertical sectional view thereof. Fig. 3 a sectional view on line 2—2 Fig. 2. Fig. 4 is a bottom plan view of the device.

Referring to the said drawings, A represents my improved clothes washer and consists essentially of a cylindrical chamber 10 terminating in a funnel shaped lower chamber 11.

In the upper or cylindrical chamber 10 a manually operated piston member 12 provided with a handle 13 or other similar means reciprocates, which piston member may consist of a main body portion 14 provided with annular conical plates 15 all of said elements being held together by any well known means. The portion 14 is of slightly smaller diameter than the plates 15 forming a peripheral groove 16 for a purpose hereinafter described. By the use of these conical plates 15 it will be seen that the piston member 12 will not be so liable to the warping action of heat and water and in order to render the piston member 12 air tight with regard to the walls of the cylindrical chamber 10 a ring of packing 17 or similar material is inserted in the annular groove 16.

The reciprocatory movement of the piston member 12 is controlled by a spiral spring 18 which abuts the face of the lower plate 15 and bears against the floor 19 of the cylindrical chamber 10 which floor is provided with a concave surface adapted to give a suitable resting place for the spring 18 and a suitable drainage of any moisture that might lodge within the chamber.

The chamber 10 is provided with a suitable lid 20 which may be secured thereto by winged nuts 21 or other similar securing means and is constructed with a sleeve 22 adapted to support the handle 13 of the piston member. Preferably the lid 20 is provided with openings 30 for the supply and escape of air.

The lower chamber 11 of the device as in the chamber 10 is provided with a concave drainage floor 23 in which is located a recess 24 adapted to receive any moisture that may have collected within the chamber, and in the walls of said chamber, air vent ports 25 are provided, the function of which will be hereinafter described.

By the structure of the device an annular recess 26 is left in which are provided radially extending strengthening plates 27 and communicating from the chamber 10 to said annular recess 26 are the air passages 28 which are completely sealed from the chamber 11. Similar passages 29 are provided leading into the lower chamber 11 which afford communication with the atmosphere through the recess 24. Thus when the piston member 12 is pushed down all the air located within the chamber 10 is expelled through the passages 28 into the clothes and material to be washed, from there it rises in bubbles and passes through the passages 29 finally making its escape through the vent ports 25.

On the return stroke caused by the action of the spring 18 the action of the washer is reversed the air being drawn through the vent ports 25 through the passages 29 and again enters the chamber 10 via the air passages 28 passing through clothes in the mean time.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention within the scope of the claims, constructed without departing from the spirit or scope thereof it is intended that all matter contained in the accompanying speci-

cation and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

- 5 1. A clothes washer comprising a cylindrical chamber, a lower chamber, an annular recess located therebelow, a plurality of sealed air passages adapted to form communication between the cylindrical chamber and the annular recess, a manually operated
10 piston reciprocating within the cylindrical chamber adapted to expel air therefrom through the passages into the clothes and means for admitting air into the cylindrical chamber on the return stroke of the piston.
- 15 2. A clothes washer comprising a cylindrical chamber, a lower chamber provided with a plurality of vent ports, an annular recess located below the lower chamber, sealed air passages forming communication between
20 the annular recess and the cylindrical chamber, passages forming communication between the lower chamber and the atmosphere, and a manually operated piston

adapted to reciprocate in the cylindrical chamber adapted to expel air therefrom. 25

3. A clothes washer comprising a cylindrical chamber provided with a concave floor a lower chamber provided with a plurality of vent ports and having a concave floor, an annular recess located therebelow, 30 a plurality of radially extending strengthening plates located in the annular recess, sealed air passages adapted to form communication between the annular recess and the cylindrical chamber passages adapted to form communication between the atmosphere and the lower chamber, a manually operated piston slidable in the cylindrical chamber and resilient means for causing the return of the piston. 40

In witness whereof I have hereunto set my hand in the presence of two witnesses.

CHARLES B. ELTRICH.

Witnesses:

W. J. McRAY,
I. B. IVERSON.

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