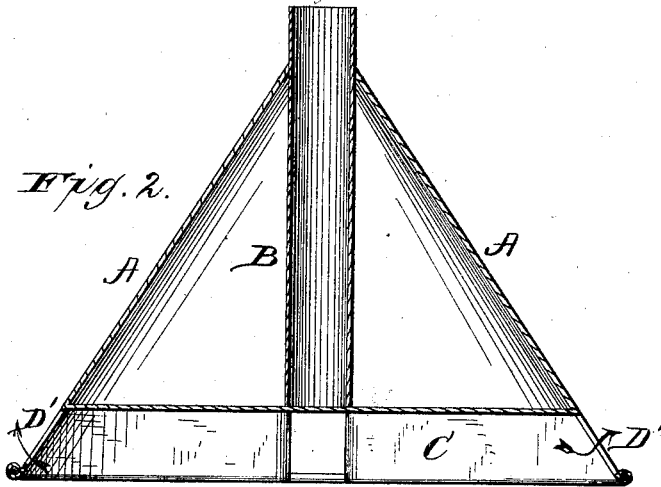
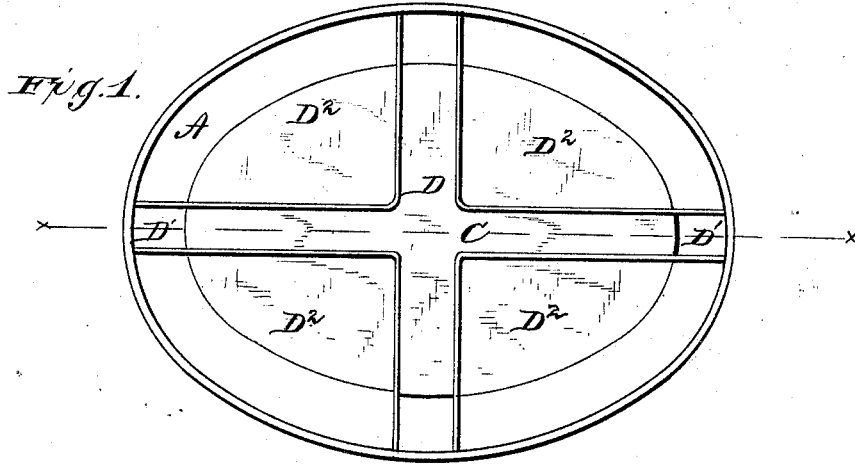


N. & J. CONNORAN.
Clothes-Pounder.

No. 212,900.

Patented Mar. 4, 1879.



WITNESSES
F. B. Curran
H. A. Tolman

INVENTOR
James Connoran
By *Mannie Connoran*
Alexander Watson
ATTORNEYS.

UNITED STATES PATENT OFFICE.

NANNIE CONNORAN AND JAMES CONNORAN, OF HILLSDALE, IOWA.

IMPROVEMENT IN CLOTHES-POUNDERS.

Specification forming part of Letters Patent No. **212,900**, dated March 4, 1879; application filed December 18, 1878.

To all whom it may concern:

Be it known that we, NANNIE CONNORAN and JAMES CONNORAN, of Hillsdale, in the county of Mills, and in the State of Iowa, have invented certain new and useful Improvements in Clothes-Pounders; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction of a pounder for washing purposes, the peculiarities of which will be hereinafter set forth.

To enable those skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

In the accompanying drawings, making part of this specification, Figure 1 represents a bottom view, and Fig. 2 a vertical section.

In the figures, A represents the body of the pounder, which is first constructed in the form of a truncated cone, and then pressed into shape, so that at its bottom (or a horizontal section thereof) it will represent in shape an ellipse. This pounder can be formed in this shape without first being made in conical shape, if desired.

D and C represent metal braces in the pounder, which are at right angles to each other, and which form open gutters or troughs between them, and which communicate with each other, and also form the air-chambers D², as shown. These braces run across at the shortest and longest diameter of the ellipse, and have openings cut through the body A at their ends, through which the water from them is ejected. These openings are seen at D¹ D¹.

Between the braces C D and the rim of the body A are thus formed four chambers, D², as shown, into which the air is compressed when at the downward stroke the pounder strikes the clothes. At the upward stroke of the plunger these air-chambers cause a suction to lift the clothes more or less, so as to loosen them and also change their position, and therefore present new surfaces for the action of the pounder at the next downward stroke.

A tube, B, runs down through the beater, for the purpose of holding and retaining a handle, with which to operate the pounder.

This pounder is used as those now in general use having a vertical stroke; but the air in this case is caught in the troughs or grooves of the braces, and is forced from them through the openings D¹ D¹.

We are aware that a solid wash-pounder having a series of radial grooves in its under face is not new.

We are also aware that air-chambers in a wash-pounder are not new, and we do not claim such devices, broadly, as our invention.

In the construction of our wash-pounder we have braces at right angles to each other, and between said braces are channels, which coincide with openings in the side of the washer, and between said braces and the sides of the pounder are formed the air-chambers. By the combination of these elements, as shown and described, we obtain a washer which is not only capable of creating the necessary suction to change the position of the clothes and cause new surfaces to be presented to the action of the washer, but also presses the clothes, forcing air through them, and giving an opportunity for the water and air to escape.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The within-described wash-pounder, consisting of the body A, provided with the braces C and D, having gutters or troughs in their under sides, and openings D¹ at their ends, and the air-chambers D² between the braces and rim of the body, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 26th day of November, 1878.

NANNIE CONNORAN.
JAMES CONNORAN.

Witnesses:

J. M. WHEELER,
Z. F. LINVIEW.