

(No Model.)

E. C. BREWER.
WASHING MACHINE.

No. 520,408.

Patented May 29, 1894.

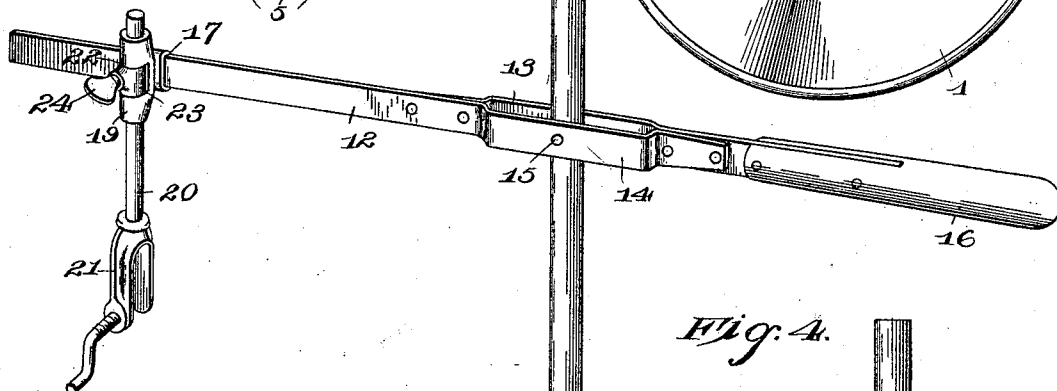
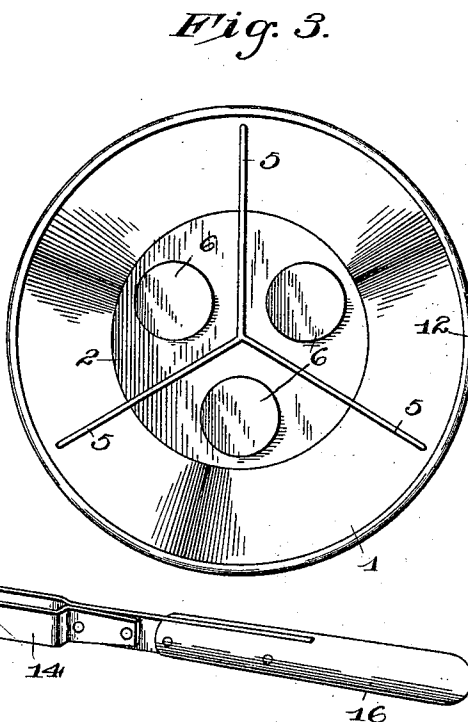
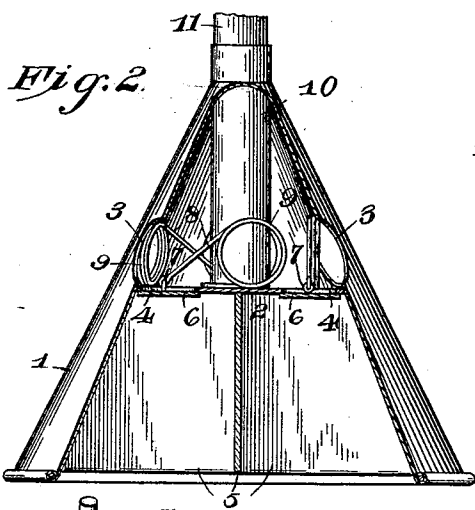


Fig. 1.

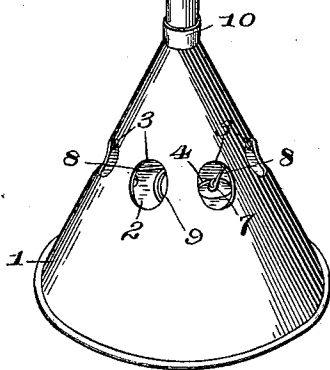
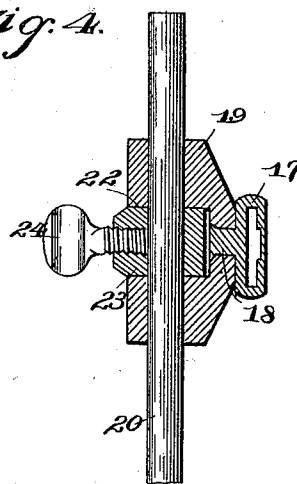


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWARD C. BREWER, OF BUTTE, MONTANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 520,408, dated May 29, 1894.

Application filed May 20, 1893. Serial No. 474,931. (No model.)

To all whom it may concern:

Be it known that I, EDWARD C. BREWER, a citizen of the United States, residing at Butte city, in the county of Silver Bow and State of Montana, have invented a new and useful Clothes-Pounder, of which the following is a specification.

The invention relates to improvements in clothes pounders.

The object of the present invention is to improve the construction of clothes pounders, and to provide a simple and inexpensive one, which may be readily secured to a tub or boiler and be adjusted to suit the quantity of clothes being washed, and which may be readily moved to different portions of the tub or body to enable all the clothes therein to be operated on, thus insuring thorough and complete washing.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a clothes pounder constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the clothes pounder. Fig. 3 is a reverse plan view of the same. Fig. 4 is a detail sectional view illustrating the connection of the swiveled loop with the stem of the clamp.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a conical shell or casing, provided intermediate of its top and bottom with a horizontal diaphragm 2, and having above the diaphragm an annular series of openings 3 for the admission of air, which enters the lower portion of the shell or casing through openings 4 of the horizontal partition 2. The lower portion of the shell or casing is divided into compartments by radial partitions 5, having their adjacent edges secured together and their upper and outer edges secured to the horizontal diaphragm 2 and to the casing 1. A valve opening 4 is provided for each compartment, and co-operating with it is a valve disk 6, arranged on the lower face of the diaphragm for closing the valve opening and preventing the escape of air, when the plun-

ger is forced downward upon clothes being washed. The valve disk 6 is provided on its upper face with a centrally arranged eye 7, which is engaged by an arm 8 of a coiled spring 9, mounted on the upper face of the diaphragm. The outer end of the arm is hooked for engaging the eye of the valve disk, and a downwardly opening valve is thus formed for the admission of air when the pounder is lifted; and a similar valve is provided for each of the compartments of the lower portion of the casing.

It will be apparent that the clothes pounder is adapted to force air and water through the clothes for removing quickly the dirt and stains thereof.

A vertical tubular socket 10 is mounted in the upper portion of the conical casing 1 and receives a stem or rod 11; and the socket has its lower end secured to the upper face of the horizontal diaphragm at the center thereof, and has its upper end secured to and extended beyond the apex of the casing. The rod 11 is pivotally connected to an operating lever 12 in an opening thereof; the opening extends longitudinally of the operating lever and is arranged at the middle thereof and is formed by offsetting or outwardly bending sections 13 and 14 of the operating lever. The inner end of each of the sections 13 and 14 of the operating lever is bent rectangularly as shown, and the sections 13 and 14 are secured together by rivets or other fastening devices at each end of the opening. The pivot 15 of the rod of the pounder is arranged in openings of the sides of the longitudinal opening of the operating lever. One end of the operating lever is provided with a handle 16, and its other end is slidably arranged in a loop or block 17, having an opening receiving the lever. The lever is adapted to be moved in and out through the opening of the block 17 to permit the clothes pounder to operate on all of the clothes to be washed by being carried from one position in or part of the boiler or body to another. The block is provided with a pivot 18, and is swiveled thereby to a sleeve 19, which is adjustably mounted on a stem 20 of a clamp 21. The sleeve 19 has an opening 22 in which is arranged a collar 23 provided with a set screw 24 for engaging the stem and retaining the

- sleeve at any desired vertical adjustment, to enable the clothes pounder to be arranged properly, relative to the quantity of clothes in a boiler or tub to be washed. The clamp
 5 consists of two depending rigid jaws, one of which has a threaded opening receiving a clamping screw 25. By means of the clamp the clothes pounder may be readily applied to any boiler or tub.
 10 It will be readily seen that the clothes pounder is simple and effective in operation, that it is adapted to be readily applied to an ordinary wash boiler or tub and arranged therein to suit the quantity of clothes to be
 15 washed, and that it may be readily moved from one part of a tub or boiler to another to enable all the clothes therein to be operated on.

Changes in the form, proportion and the
 20 minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

- 25 1. The combination of a clothes pounder having a rod, an operating lever pivotally connected to the rod, a vertical stem provided

at its lower end with jaws adapted to receive the upper edge of a boiler, tub or the like, and a block swiveled to the stem and vertically adjustable thereon and provided with an opening adjustably receiving the operating lever and permitting a sliding movement of the same, substantially as described. 30

2. The combination of a vertical support- 35 ing stem provided at the lower end with a clamp, a sleeve mounted on the stem and capable of vertical adjustment and provided with an opening, a collar arranged in the opening and provided with a clamping screw 40 for securing the sleeve in its adjustment, a block swiveled to the sleeve and provided with an opening, an operating lever slidingly mounted in the opening, and a clothes pounder having a rod pivoted to the operating lever, substantially as described. 45

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EDWARD C. BREWER.

Witnesses:

H. K. MATTHEWS,
 W. M. BIRTHIGHT.