

No. 865,903.

PATENTED SEPT. 10, 1907.

L. JAMES.
WASHBOILER.

APPLICATION FILED JAN. 8, 1906.

FIG. 1

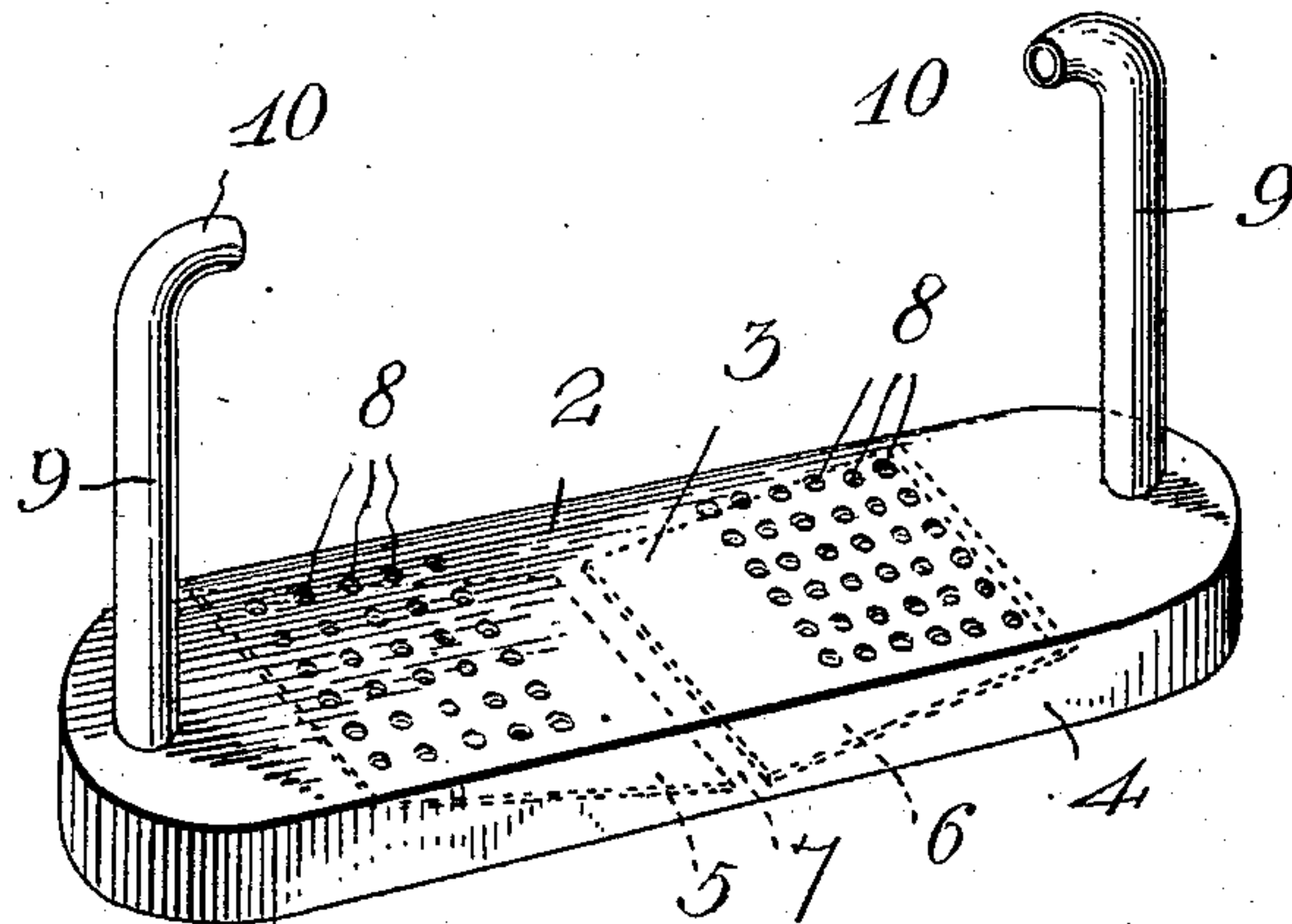


FIG. 2

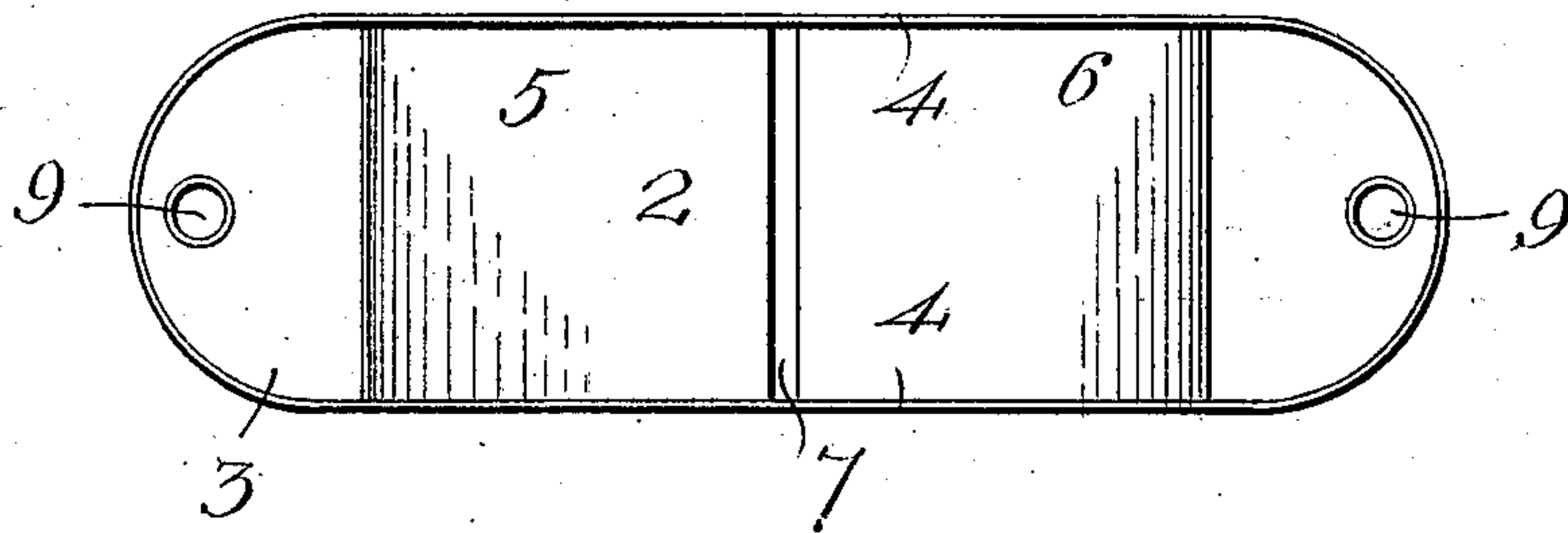
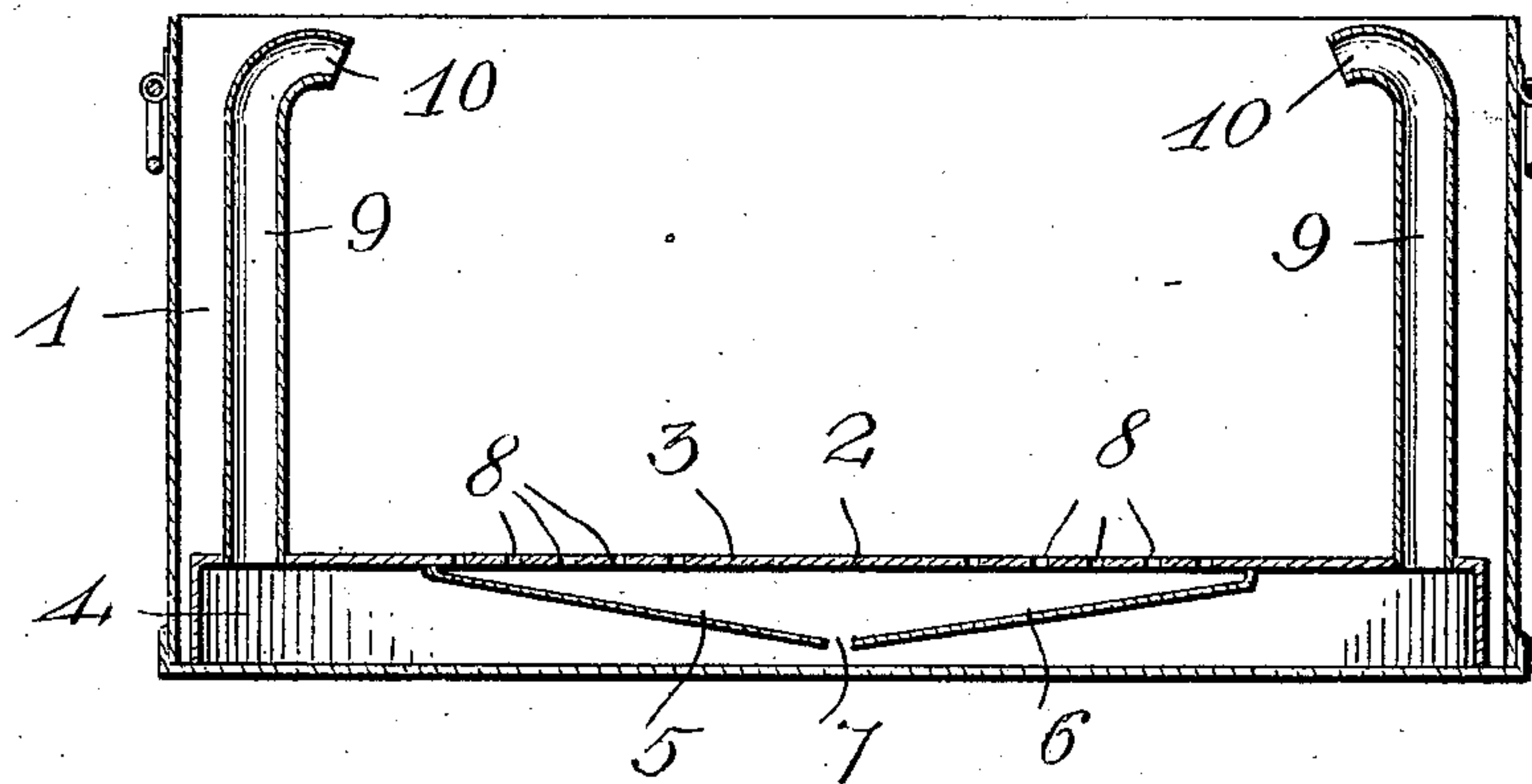


FIG. 3



Witnesses

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LAWRENCE JAMES, OF SHENANDOAH, IOWA.

WASHBOILER.

No. 865,903.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed January 8, 1906. Serial No. 295,097.

To all whom it may concern:

Be it known that I, LAWRENCE JAMES, a citizen of the United States, residing at Shenandoah, in the county of Page and State of Iowa, have invented certain new and useful Improvements in Washboilers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in clothes washers and more particularly to an attachment for wash boilers whereby a circulation of water and steam is caused in the boiler to loosen and remove the grease and dirt from the clothes therein.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of the washer or attachment removed from the boiler; Fig. 2 is a bottom plan view of the same; and Fig. 3 is a vertical longitudinal sectional view showing the washer or attachment mounted within a wash boiler.

Referring to the drawings by numeral, 1 denotes a wash boiler of any well known or preferred form and construction, and 2 denotes my improved washer or attachment which is adapted to be removably supported within the boiler upon its bottom. The washer or attachment 2 preferably conforms in shape to that of the bottom of the boiler and is of slightly less size than the same, so that it may be easily inserted in and removed from the wash boiler. It consists of a plate or partition 3, having a surrounding flange 4 which spaces it from the bottom of the wash boiler. Beneath the plate 3, which thus forms a horizontal diaphragm or partition, are secured downwardly and inwardly converging deflectors 5, 6 which have their adjacent edges spaced slightly apart, at 7, to permit of the passage of water and steam therethrough, the upper edge of each of said deflectors extend continuously and transversely across the under face of the plate 2 and each is soldered or otherwise secured to the inner faces of the surrounding flange 4 and the plate 3. These deflectors 5, 6 are arranged immediately below groups of apertures or

openings 8 which are formed in the plate or diaphragm 3, as clearly shown in Figs. 1 and 3 of the drawings. These apertures permit the water to pass downwardly through the plate 3 and the opening or space 7 between said deflectors and into the outer portions or ends of the washer, from which it is discharged through vertical pipes or spouts 9. The latter are arranged at each end of the plate or diaphragm 3 and have their upper ends 10 curved and reduced inwardly and downwardly so as to more effectively direct the water and steam with greater force downwardly upon the clothes within the wash boiler. This construction permits of constant circulation of currents of boiling water and steam through the washer or attachment and the clothes above the same, so that dirt and grease in the clothes will be effectively removed. The boiling of the water beneath the attachment or washer causes the water and steam to be forced upwardly through the pipes 9 and discharged with considerable force upon the clothes, so that the washing of them will be accomplished in considerable less time than would be necessary if each piece was rubbed.

From the foregoing description taken in connection with the accompanying drawings, the construction, operation and advantages of the invention will be readily understood without requiring a more extended explanation.

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

A device for a wash boiler comprising a partition provided with a surrounding depending supporting flange, inwardly and downwardly inclined plates extending continuously and transversely across the under face of the partition and secured thereto and to the under sides of said flange, said inclined plates being continuously flat from their points of connection and spaced apart at their terminals, said partition having above each of the plates transverse rows of perforations extending over a portion of the plates, and pipes extending upwardly from the opposite ends of the partition and having their upper ends inwardly curved to provide reduced terminal discharge openings, substantially as specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LAWRENCE JAMES.

Witnesses:

E. R. SUNDERLAND,
W. B. MARANVILLE.