

No. 662,265.

Patented Nov. 20, 1900.

J. C. GREINER.
STEAM WASHBOILER.

(Application filed Apr. 27, 1900.)

(No Model.)

Fig 1.

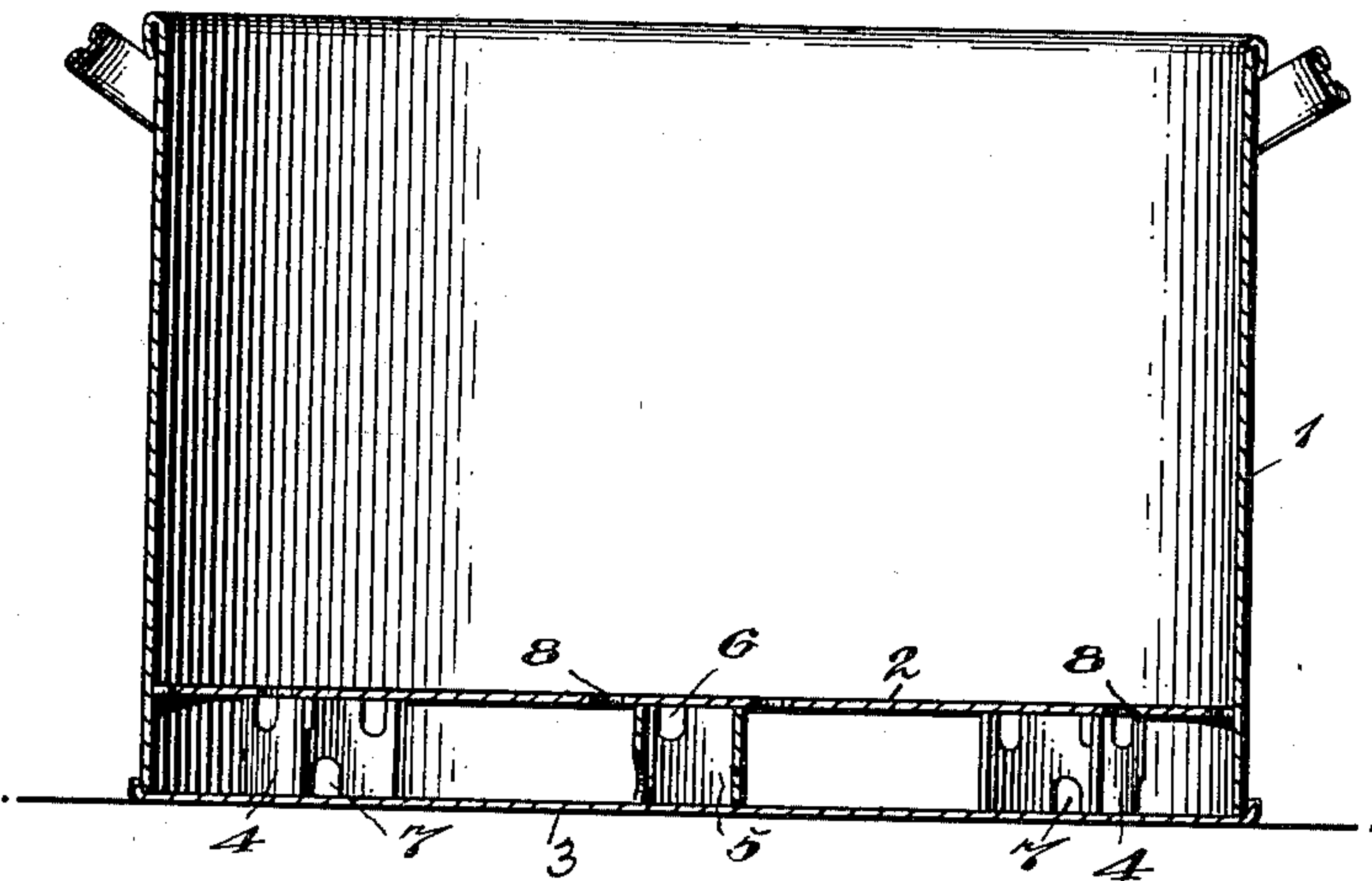


Fig 2.

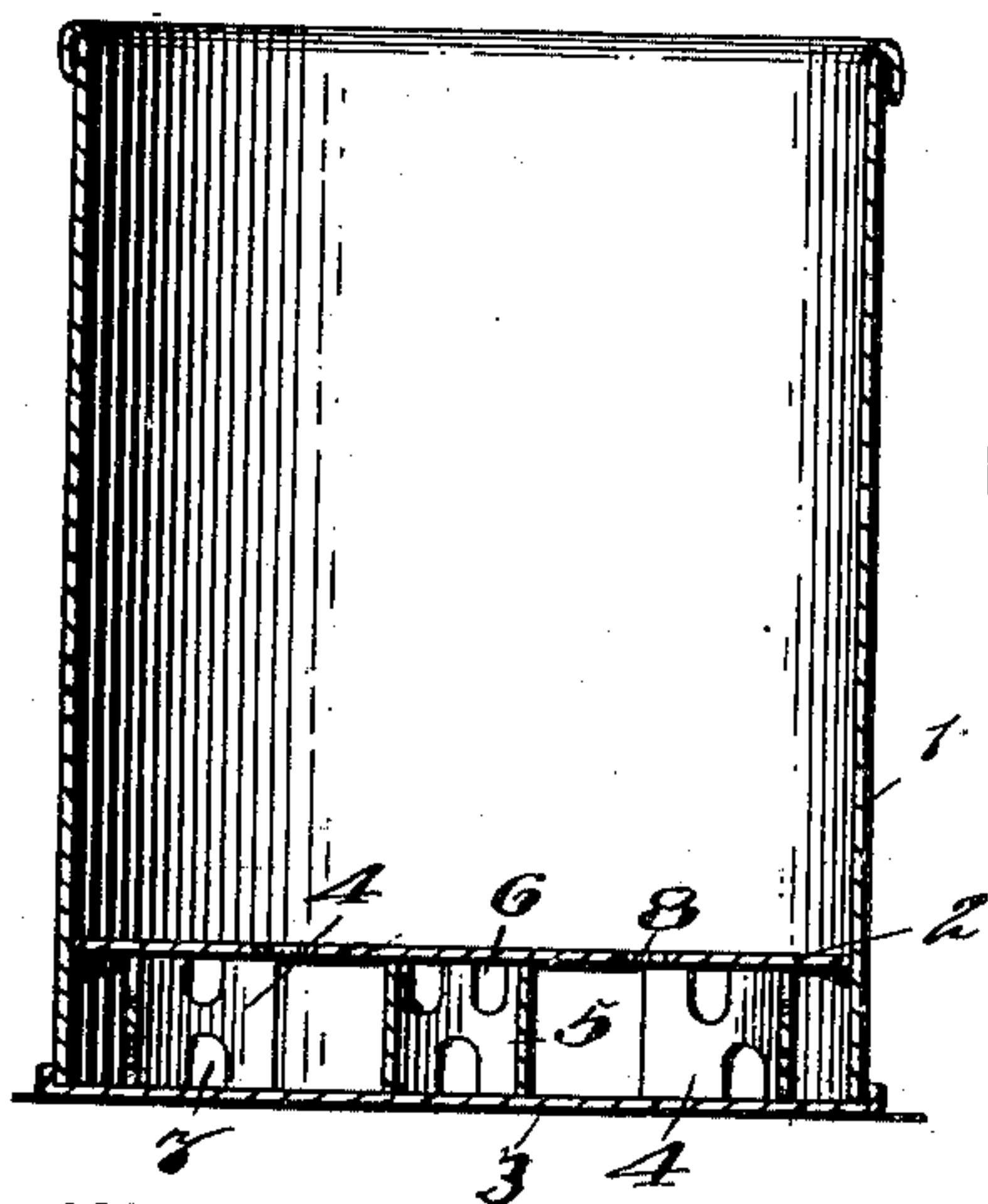
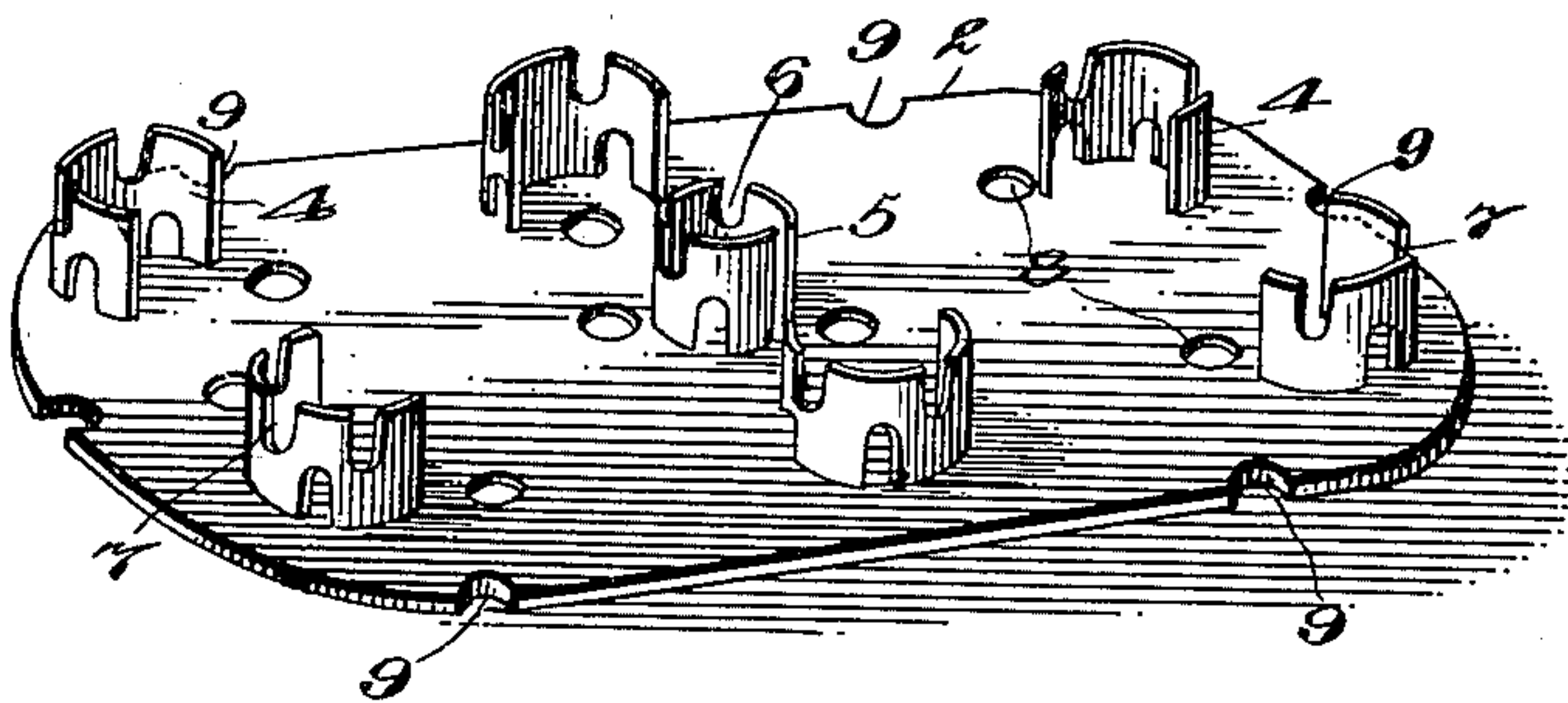


Fig 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES C. GREINER, OF HARRISONBURG, VIRGINIA.

STEAM-WASHBOILER.

SPECIFICATION forming part of Letters Patent No. 662,265, dated November 20, 1900.

Application filed April 27, 1900. Serial No. 14,625. (No model.)

To all whom it may concern:

Be it known that I, JAMES C. GREINER, a citizen of the United States, residing at Harrisonburg, in the county of Rockingham and State of Virginia, have invented a new and useful Steam-Washboiler, of which the following is a specification.

The invention relates to improvements in washboilers.

10 The object of the present invention is to improve the construction of washboilers and to provide a simple and inexpensive one adapted to highly heat a quantity of water at its bottom, and to thereby generate steam, which will
15 be forced upward through the clothes and produce an agitation of the water and assist in removing the dirt and stains of the clothes and other fabrics being washed.

20 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 claim hereto appended.

25 In the drawings, Figure 1 is a vertical longitudinal sectional view of a washboiler constructed in accordance with this invention. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a detail perspective view of the perforated false bottom or diaphragm, the
30 same being inverted to show the tubular and semitubular supports.

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

35 1 designates a washboiler provided with a horizontal perforated diaphragm or false bottom 2, arranged within it a short distance from the bottom 3 to form a chamber or compartment for heating water and generating
40 steam, whereby the contents of the boiler will be agitated and the removal of dirt from clothes and other fabrics greatly facilitated. The horizontal perforated diaphragm, which is of the same area as the interior of the boiler,
45 is supported at intervals by curved supports 4 and 5, which are designed to be secured to either the diaphragm or the bottom 3, or both. The support 5, which is arranged at the center of the bottom of the boiler, is substantially
50 cylindrical, and it is provided with openings 6 to permit the water to pass readily through it. The supports 4, which are arranged at the

sides and ends of the diaphragm, but which may be located at any other points, consist of semi or partial tubes, and are curved, as clearly
55 shown in Fig. 3, and are provided with openings 7 for the passage of water and steam.

The horizontal diaphragm 2, which is arranged close to the bottom 3, presents a smooth substantially unbroken upper face to avoid
60 tearing or otherwise injuring the clothes or other fabrics being washed, and it is adapted to divide off a thin sheet of water to heat the same to produce steam, and the hot water and steam are adapted to pass upward through the
65 perforations 8 into the upper portion of the boiler, and the agitation thus produced will greatly facilitate the washing of clothes.

In order to enable the bottom chamber or compartment formed by the horizontal diaphragm 2 to be readily drained, the said horizontal partition is provided with peripheral
70 recesses 9, forming drain-openings and arranged at intervals around the entire partition or diaphragm, as clearly illustrated in Fig. 3 of the accompanying drawings. By
75 this construction the interior of the bottom space or compartment may be drained from either side or end of a boiler, and it will thoroughly dry, so that there will be no liability
80 of the interior of the boiler rusting from the accumulation of water therein and soiling the clothes and prematurely destroying the boiler.

It will be seen that the improvements are simple and comparatively inexpensive in construction and that they are adapted to be
85 readily applied to an ordinary washboiler and that the horizontal diaphragm, which is provided with perforations, is adapted to form a shallow space or compartment at the bottom
90 of the boiler for highly heating water, and that the curved supports, which prevent the bottom from being injured through pounding or turning the clothes, are provided with perforations or openings and permit the water
95 to pass through them. Furthermore, it will be apparent that by rigidly securing the perforated diaphragm and the supports within the boiler a strong and substantial receptacle is provided, which may be used as conveniently as an ordinary boiler.
100

What is claimed is—

A device of the class described comprising a washboiler having a horizontal bottom and

vertical sides, the horizontal diaphragm of the same area as the interior of the boiler, fixed to the walls of the latter adjacent to the bottom thereof to provide a shallow compartment and having perforations throughout its area communicating with the shallow compartment, said diaphragm being provided at its periphery with recesses arranged at intervals and forming drain-openings to permit the shallow compartment to thoroughly drain when the boiler is inverted in any position to prevent the parts from rusting out and to obviate the necessity of having the diaphragm removable in order to secure a thorough drying of the interior, and the tubular and semi-

tubular supports arranged at intervals and having horizontal upper and lower edges to fit against the adjacent faces of the diaphragm and the bottom of the boiler and provided at their said upper and lower edges with recesses to permit water to flow readily through them when the boiler is in any position, substantially as described.

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

JAMES C. GREINER.

Witnesses:

A. M. NEWMAN,
A. H. WILSON.