

G. S. WRIGHT & E. W. HARRINGTON.

Improvement in Steam Wash-Boilers.

No. 131,647.

Patented Sep. 24, 1872.

Fig. 1.

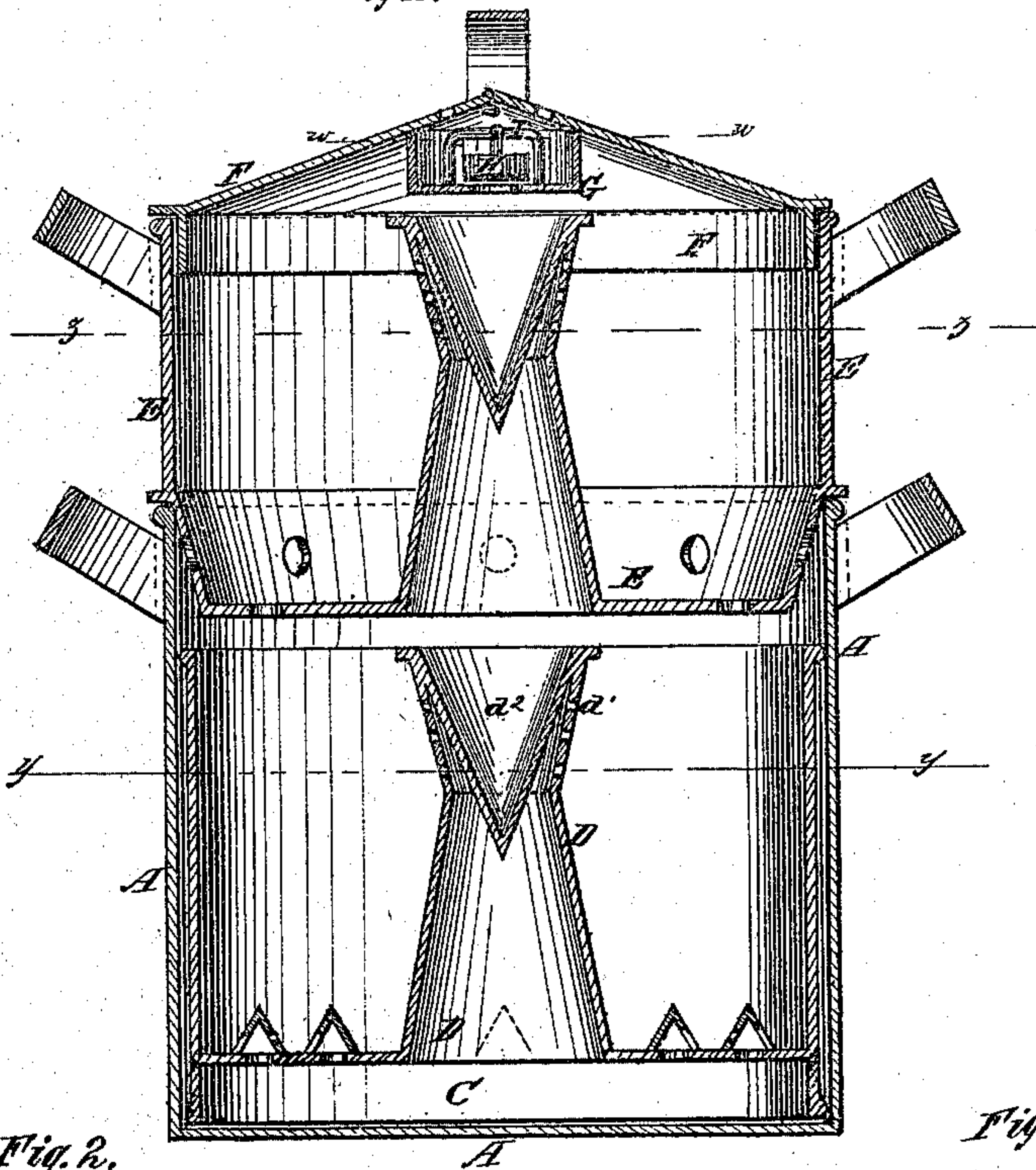


Fig. 2.

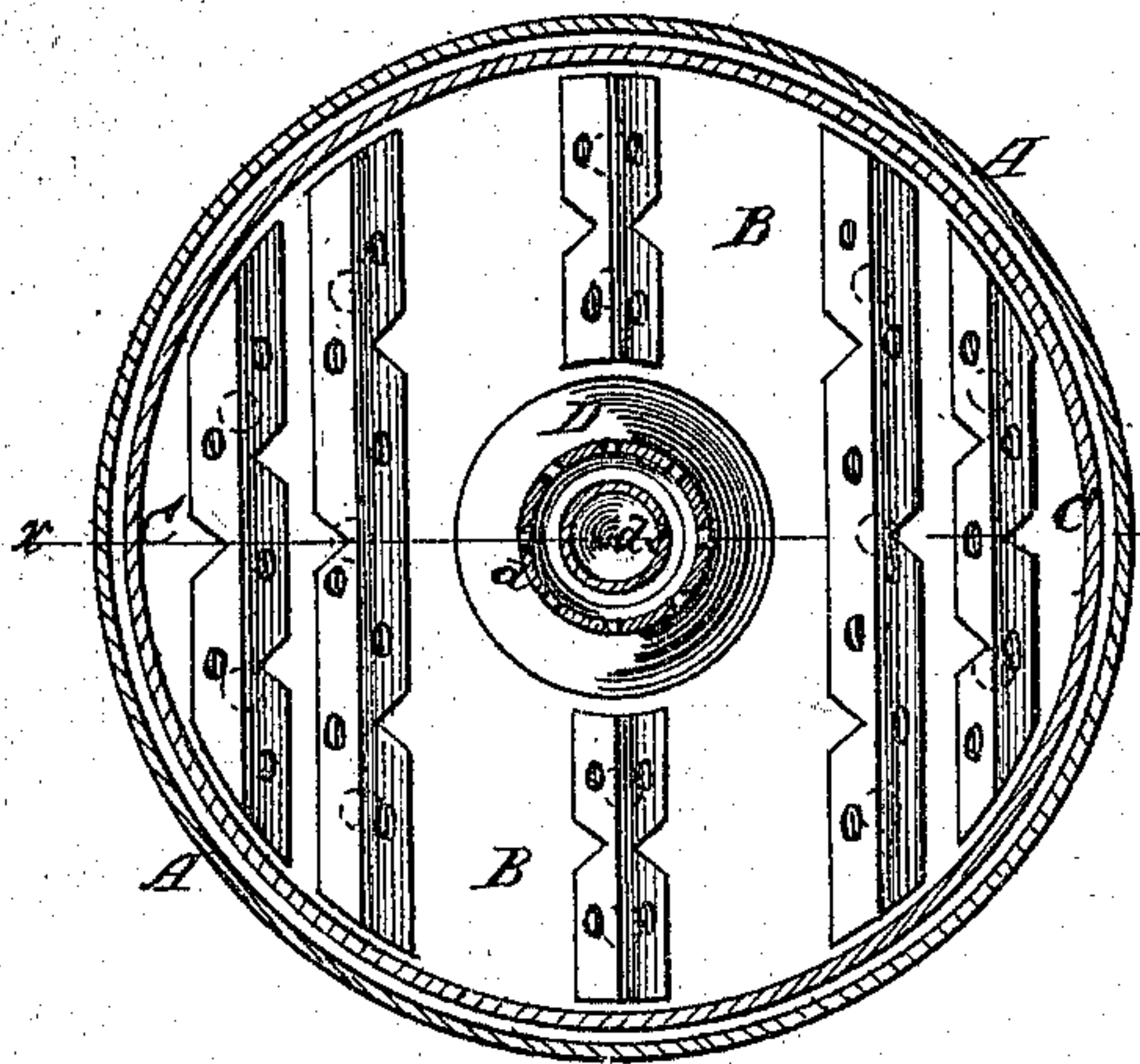


Fig. 3.

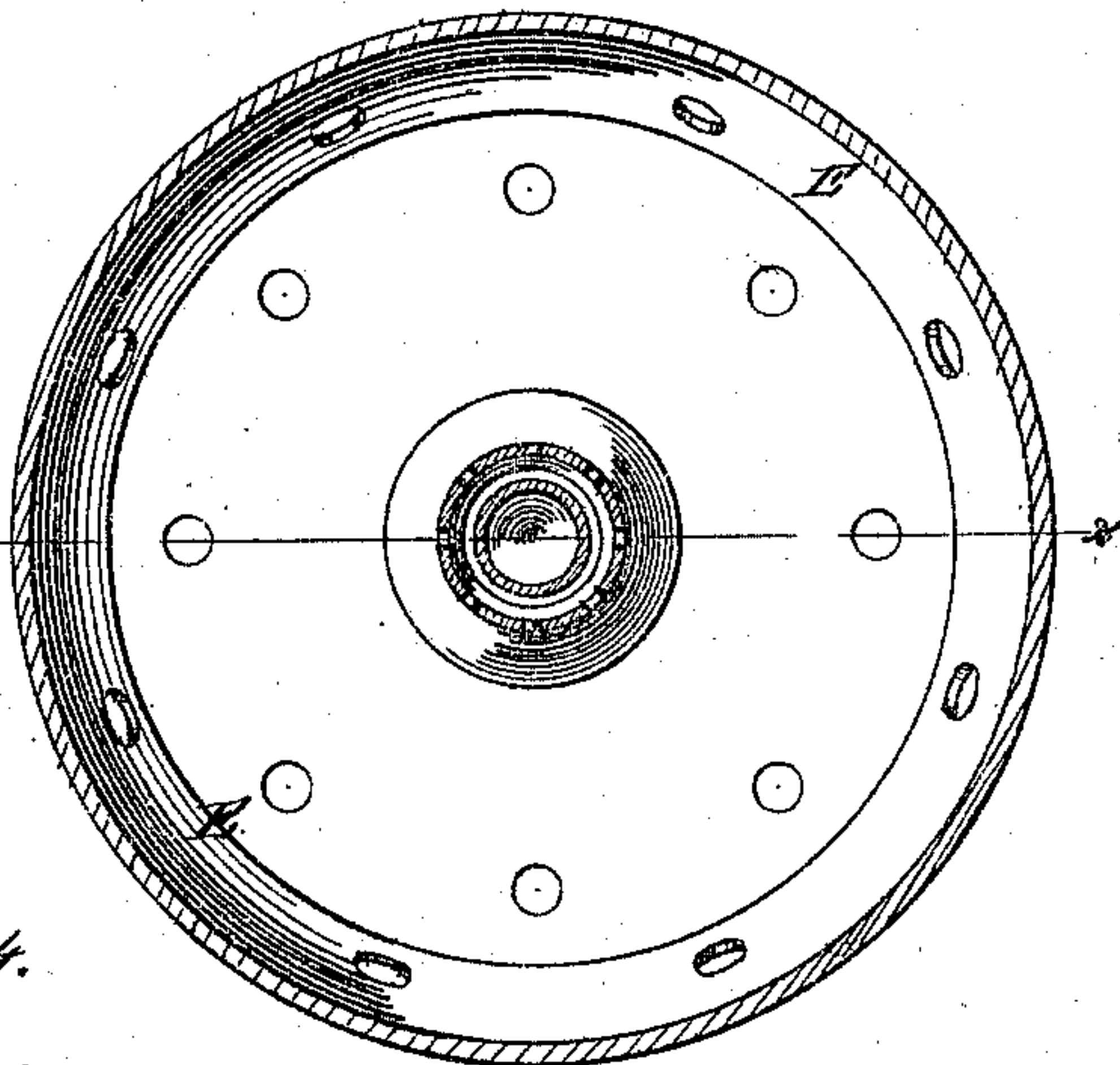
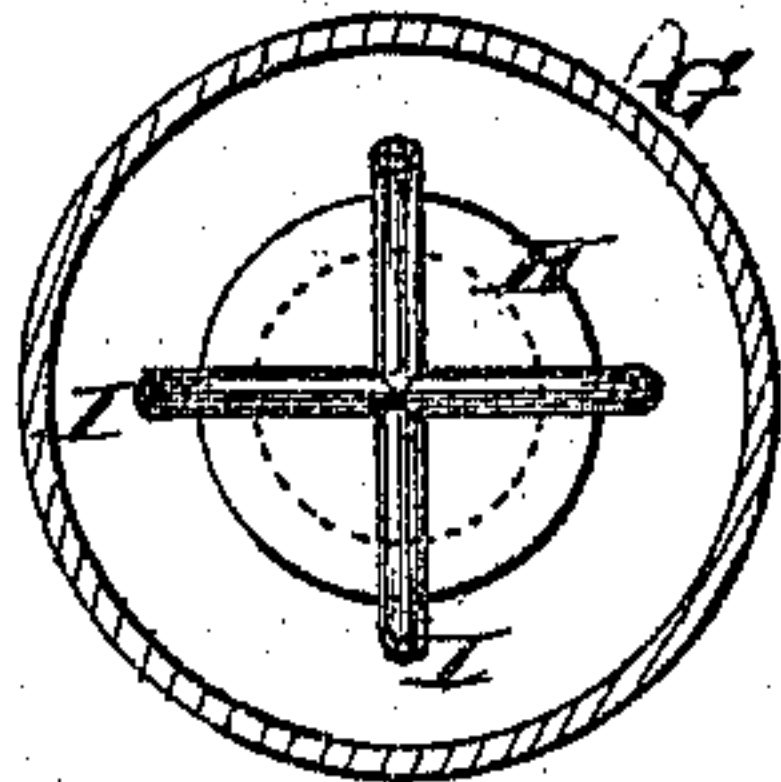


Fig. 4.



Witnesses:

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PER

UNITED STATES PATENT OFFICE.

GEORGE S. WRIGHT, OF RACINE, WISCONSIN, AND ELIAS W. HARRINGTON,
OF GENEVA, NEW YORK.

IMPROVEMENT IN STEAM WASH-BOILERS.

Specification forming part of Letters Patent No. 131,647, dated September 24, 1872.

To all whom it may concern:

Be it known that we, GEORGE S. WRIGHT, of Racine, in the county of Racine and State of Wisconsin, and ELIAS W. HARRINGTON, of Geneva, in the county of Ontario and State of New York, have invented a new and useful Improvement in Steam-Washer, of which the following is a specification:

Figure 1 is a detail vertical section of our improved washer taken through the line *x x*, Figs. 2 and 3. Fig. 2 is a horizontal section of the same taken through the line *y y*, Fig. 1. Fig. 3 is a horizontal section of the same taken through the line *z z*, Fig. 1. Fig. 4 is a horizontal section of the cover taken through the line *w w*, Fig. 1.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved machine for washing and bleaching clothes and other cloths by steam, which shall be simple in construction, convenient in use, and effective in operation, washing the clothes quickly and thoroughly, and without injuring even the most delicate fabric; and it consists in the corrugated false bottom, provided with a downwardly-projecting rim, and one or more upwardly-projecting steam-conductors; in the steam-conductors, made with their upper ends in the form of inverted cones; in the top steamer; and in the combination of a steam-escape valve with the cover, as hereinafter more fully described.

A represents an ordinary wash-boiler. B is a false bottom, which is corrugated by having strips of metal bent longitudinally into an angular form attached to it, and having holes formed through the strips and through the bottom. These corrugations are designed to keep the clothes up from the bottom B, so that the steam and water may pass through freely. The corrugations may be formed in the body of the bottom B if desired. To the edge of the bottom B is attached a rim, C, which projects a sufficient distance below the bottom B to form a reservoir for the water to generate the steam. The rim C may project above the bottom B, if desired, to any desired distance. In the center of the bottom

B is formed a hole, in which is secured the lower end of a tapering conductor, D, which may be made round, oblong, square, or of any other desired shape. To the upper end of the conductor D is attached a top, *d'*, made in the shape of the frustum of an inverted hollow cone, the sides of which are perforated with numerous small holes. To the upper edge of the top *d'* is attached the edge of an inverted cone, *d''*, having its sides more inclined than the sides of the cone *d'*, thus forming what we call a conical top to the conductor, which divides the steam, and projects it in numerous small streams upon the clothes lying upon the bottom B. E is the top steamer, which is made with a sunk bottom, so that it can fit into and be supported by the upper edge of the boiler. The sunk bottom has holes formed in its body and sides, as shown in Figs. 1 and 3, to allow the steam and water to pass through freely. In the center of the bottom of the steamer E is formed a hole, in which is secured a conductor similar to the conductor D *d'* *d''*. F is the cover, which is so formed as to fit closely into the upper end of the boiler A and steamer E, as may be required. In the upper part of the cover F is formed a small chamber, G, in the bottom of which is formed a hole, which is covered with a drop-valve, H, which is held down by its own weight, and is kept from getting out of place by a cage, I. In the upper part of the cover F are formed a number of small holes.

With this construction, should too much steam be in the machine it will raise the valve H and escape, the valve dropping back to its place as soon as the steam pressure is reduced—the whole to be used in combination or separately, as may be required.

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

1. The corrugated false bottom B, provided with a downwardly-projecting rim, C, and one or more upwardly-projecting conductors, D *d'* *d''*, to adapt it to be used with a boiler, as and for the purpose set forth.

2. The steam-conductors D, one or more,

made with the conical tops d^1 d^2 , substantially as herein shown and described, and for the purpose set forth.

3. The upper steamer E, made with a perforated sunk bottom, and an upwardly-projecting steam-conductor, substantially as herein shown and described, and for the purpose set forth.

4. The combination of the steam-escape

valve G H I, with the cover F of a wash-boiler, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:

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