

(No Model.)

H. L. ENNES.
MOP WRINGER.

No. 440,550.

Patented Nov. 11, 1890.

Fig. 1.

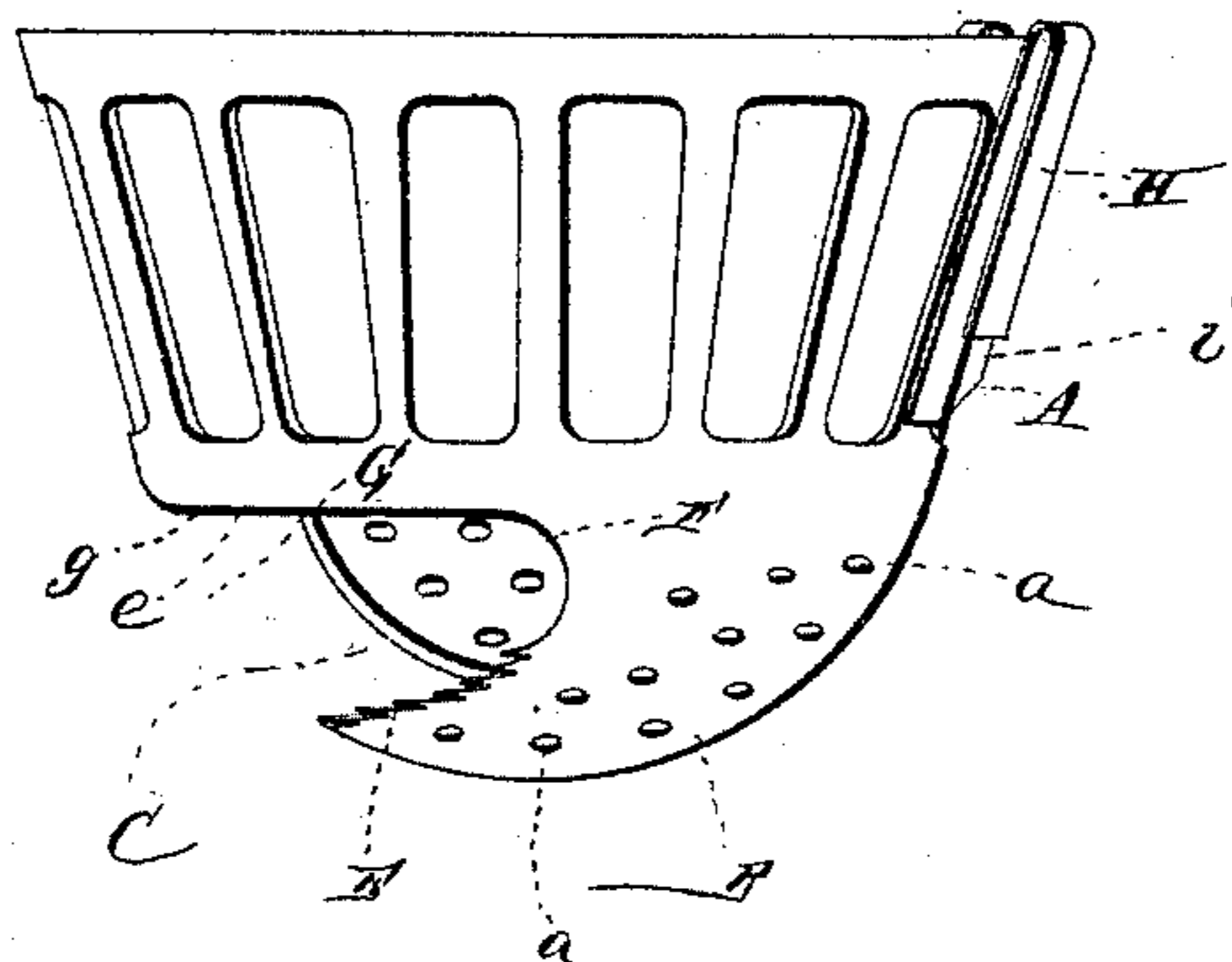
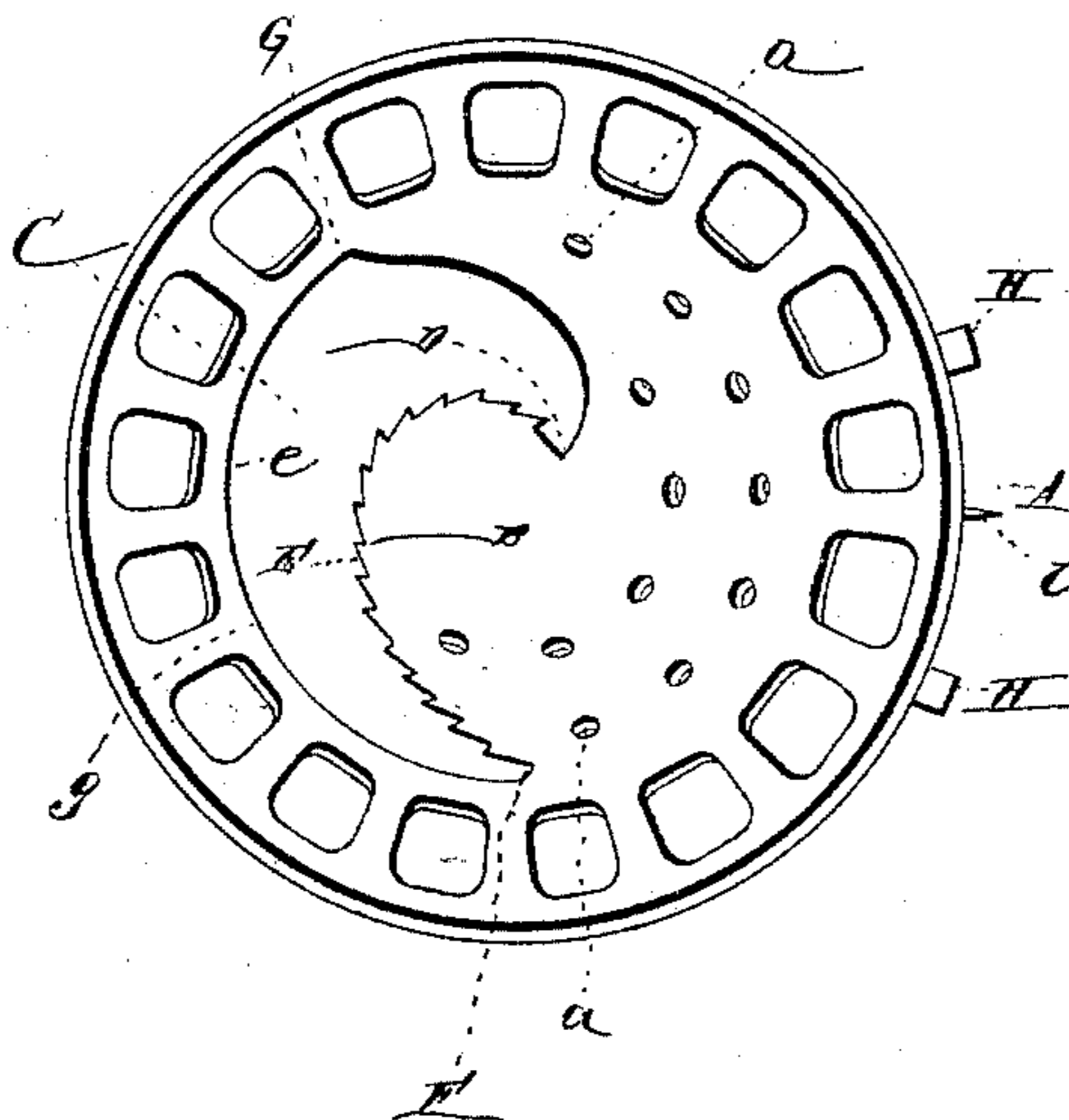


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 440,550, dated November 11, 1890.

Application filed August 25, 1890. Serial No. 362,922. (No model.)

To all whom it may concern:

Be it known that I, HOMER L. ENNES, a citizen of the United States, and a resident of Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Mop-Wringers; 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 ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view, and Fig. 2 is a top plan view.

This invention relates to mop-wringers; and it consists in the novel construction and combination of parts, as hereinafter set forth.

In the accompanying drawings, the letter
20 A indicates the cone-shaped bowl, which is preferably made of metal and cast in one piece. The side wall consists of alternate slots and bars in series. The bottom B of this bowl is concave inside, and in addition to the numerous small holes *a a*, has a large opening C, the edges of which follow the shape of a spiral. The opening C has its beginning at a point D, near the center of the bottom of the bowl, and its lower edge E is serrated and follows a spiral
30 course, and at the same time, following the curvature of the bottom of the bowl, rises to a point F about half-way to the top. The upper edge *e* of the opening C is smooth, and, starting from the point D, winds in a spiral course to a point G on a level with the point F, and thence follows a circular and horizontal course, as at *g*, to F. The opening C, formed by these edges and starting at the point G, grows smaller toward the points F and D, and
40 the branch of the opening toward F is longer than that which extends toward D. The lower or convex edge of the opening C is serrated and the teeth are inclined away from the point F. The mop being introduced into the bowl
45 A is turned in a direction following the in-

clination of the teeth of the lower edge, whereby the strands of the mop are made to pass through the opening C. Then the mop is turned in the opposite direction, the strands on the inside are caught by the lower edge, 50 while the upper edge allows the strands to slide along, thus forcing the mop, as a whole, into the narrowing opening toward F in such a manner as to wring out the water. Turning the mop in the opposite direction will re- 55 lease it from the clutch of the toothed or serrated edge, when it may be drawn out. H H are two hooks designed to suspend the wringer in the bucket, and at the same time the blade *i*, fastened to one of the bars of the bowl, tends 60 to secure the bowl in an efficient and permanent manner.

Having described my invention, what I claim, and desire to secure by Letters Patent, is— 65

1. The bowl-shaped mop-wringer having the perforated bottom and having an opening provided with inclined serrated teeth, and means for securing the wringer immovably while in operation, substantially as described.

2. A bowl-shaped mop-wringer having a slotted sloping side wall provided with a concave perforated bottom extending around part of the vessel, and an opening formed by the edge of the bottom and the lower edge of the bowl, these edges being curved or spiral- 75 shaped, the convex edge being serrated, substantially as specified.

3. A bowl-shaped mop-wringer provided with a concave perforated bottom, and having 80 an opening formed by a smooth edge over and opposite a serrated edge, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

HOMER L. ENNES.

Witnesses:

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L. H. ROWIN.