

(No Model.)

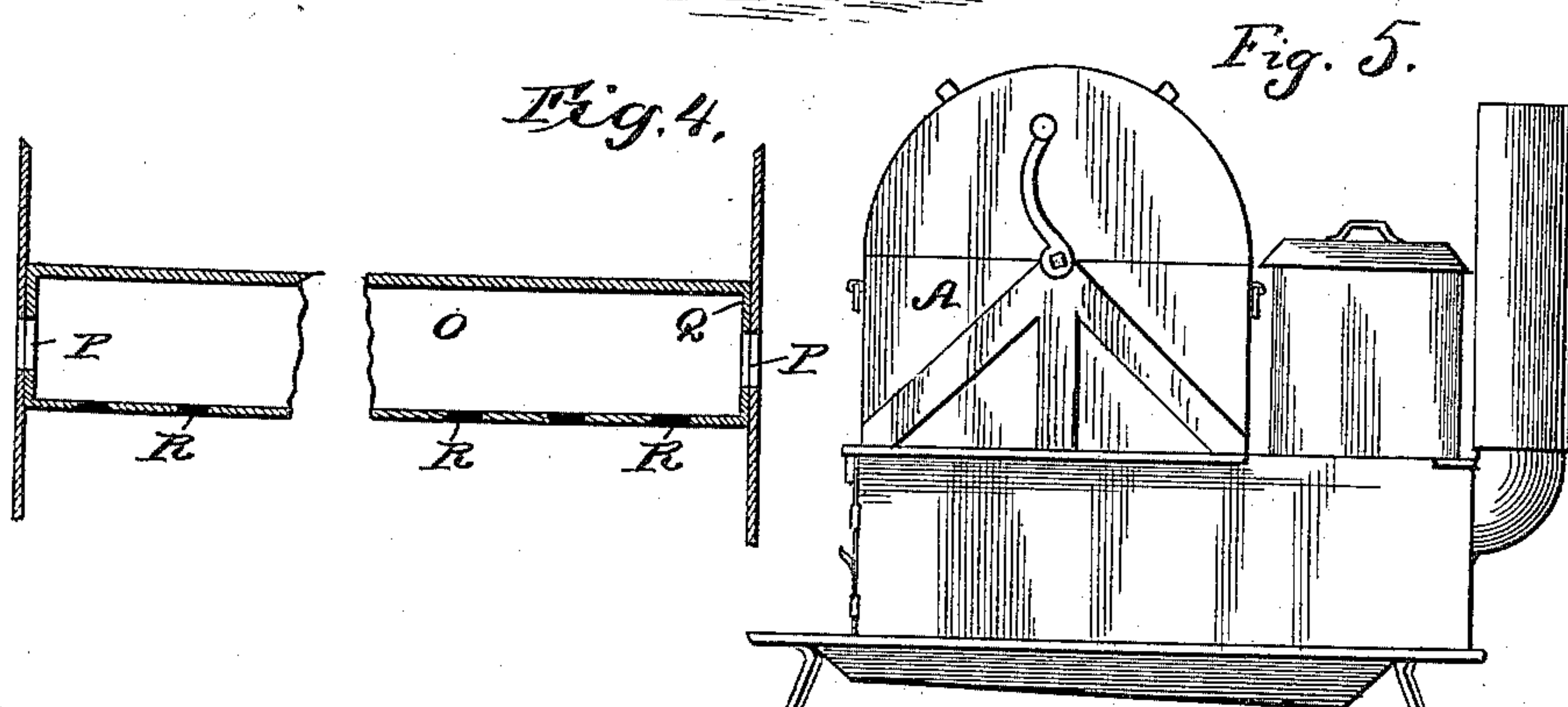
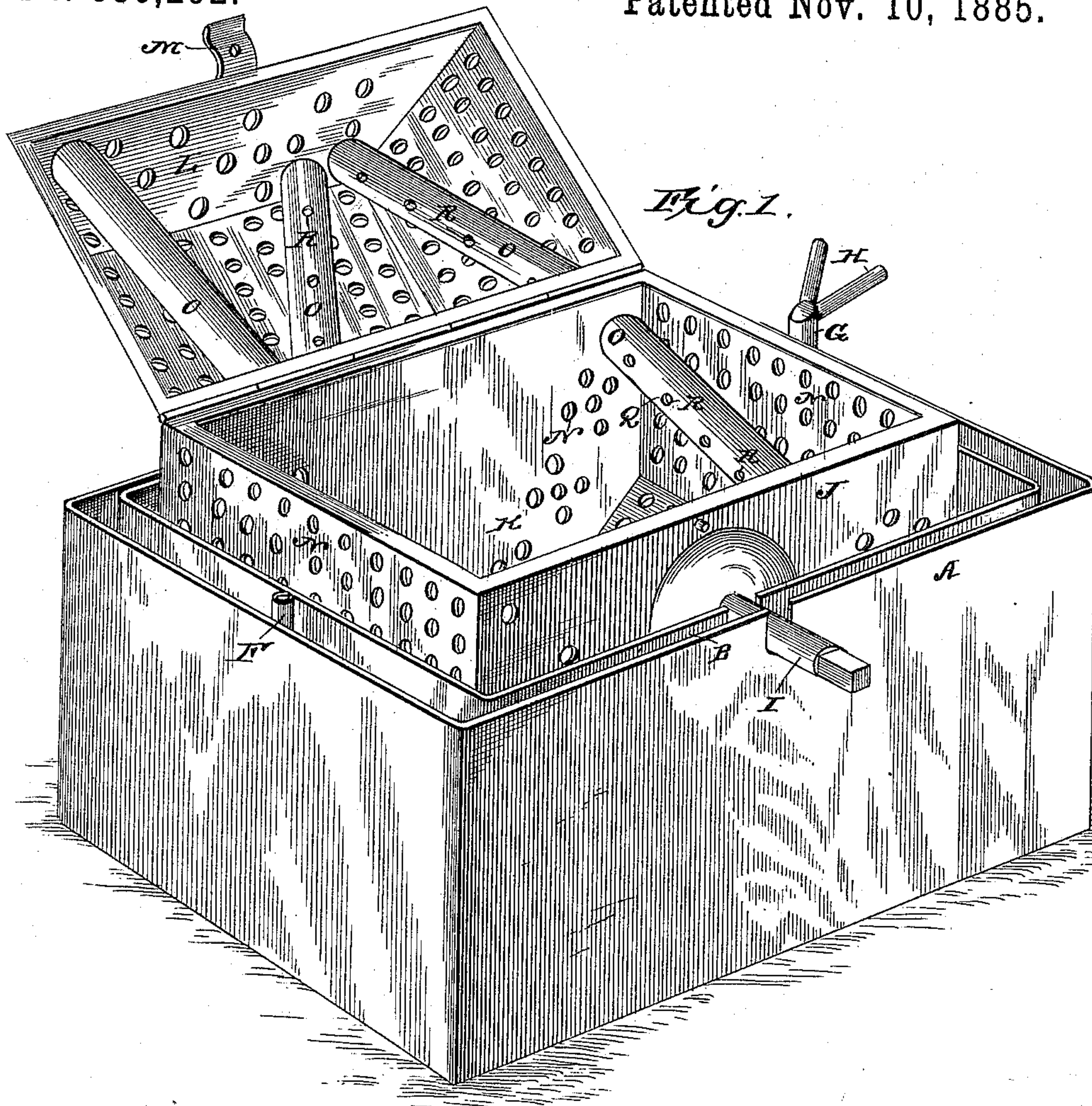
2 Sheets—Sheet 1.

D. L. BURGESS & J. F. BROXTON.

WASHING MACHINE.

No. 330,292.

Patented Nov. 10, 1885.



WITNESSES:

Fred. L. Dieterich
 Wm. Bagger

INVENTOR.

D. L. Burgess & J. F. Broxton, INVENTOR.

by Louis Bagger & Co.
ATTORNEYS.

ATTORNEYS

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2 Sheets—Sheet 2.

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Fig. 2.

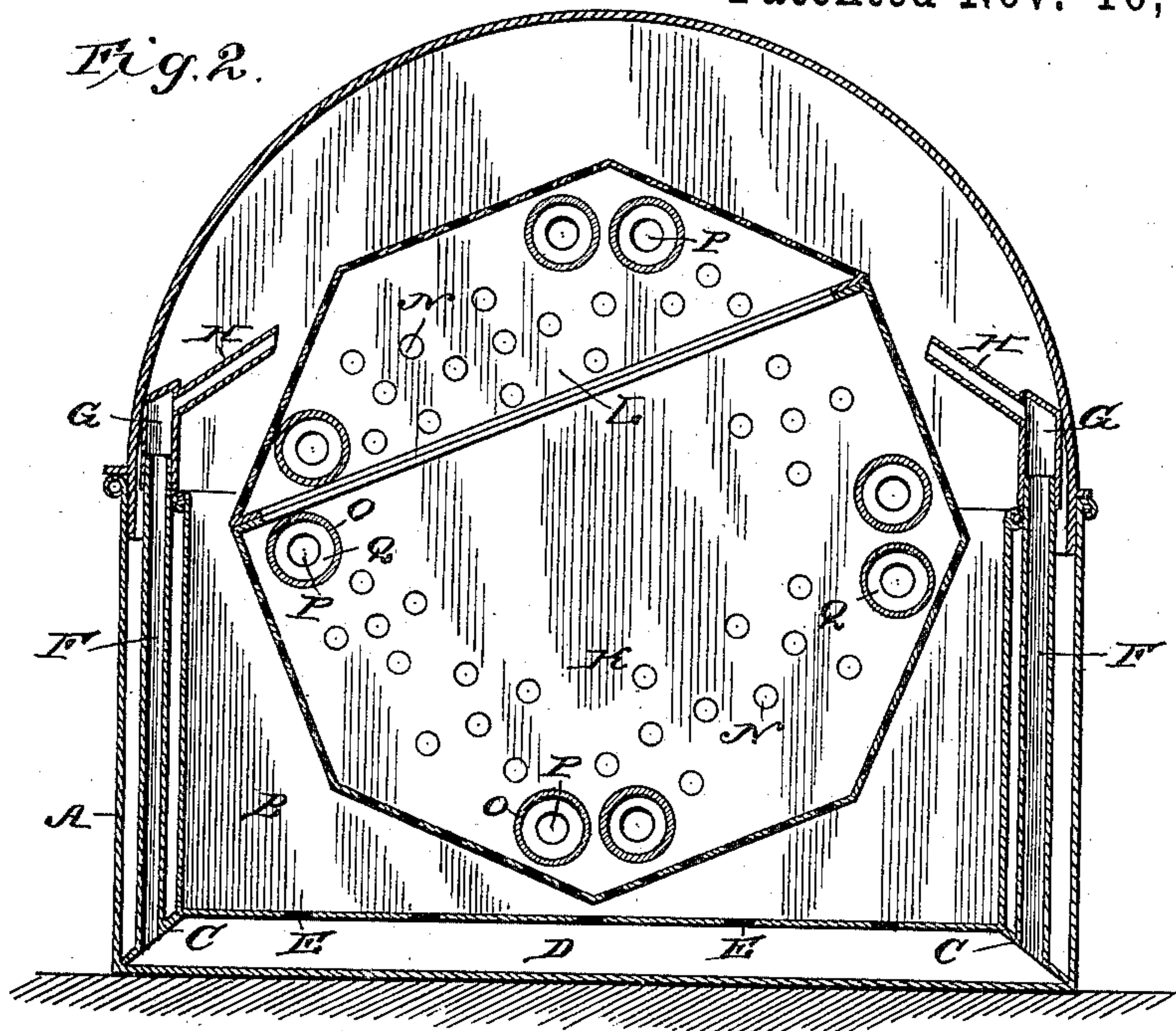
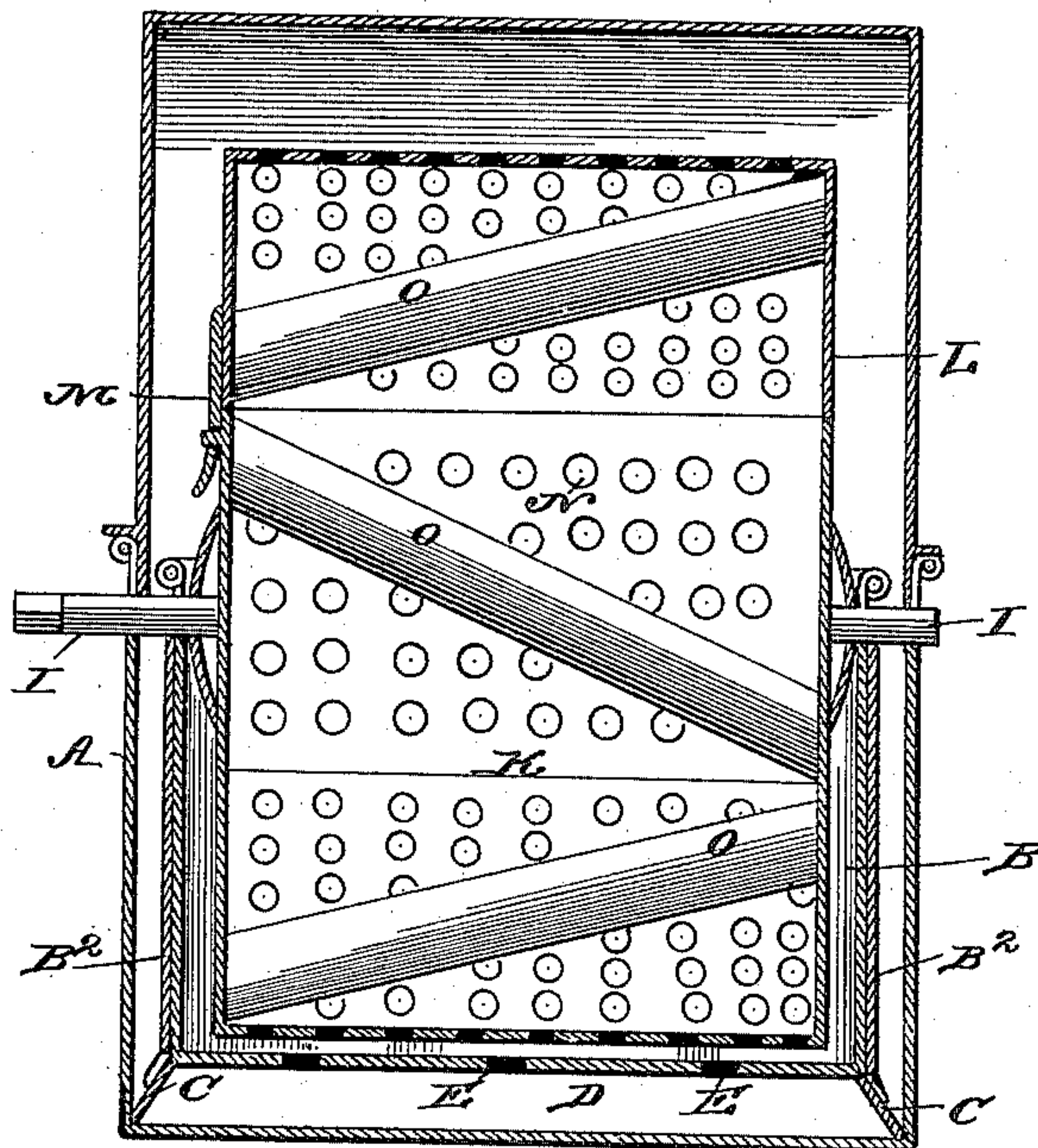


Fig. 3.



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UNITED STATES PATENT OFFICE.

DUDLEY L. BURGESS AND JOHN F. BROXTON, OF DALLAS, TEXAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 330,292, dated November 10, 1885.

Application filed April 1, 1885. Serial No. 160,864. (No model.)

To all whom it may concern:

Be it known that we, DUDLEY L. BURGESS and JOHN F. BROXTON, both residents of Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of our improved washing-machine with the top removed and the cover thrown open so as to expose the interior construction. Fig. 2 is a longitudinal sectional view of the device in position for operation. Fig. 3 is a vertical transverse sectional view of the same. Fig. 4 is a sectional detail view taken through one of the interior tubes in the revolving casing, and Fig. 5 is a side view, showing the machine upon a stove or furnace in position for operation.

The same letters refer to the same parts in all the figures.

This invention relates to that class of washing-machines which consist, mainly, of a revolving perforated cylinder or box arranged within a suitable casing or boiler; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view it consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the outer or main boiler, which consists of a rectangular box or casing, made of sheet metal or other suitable material, and within which is placed a secondary boiler, B, having a flaring bottom flange, C, leaving a water-space, D, between the outer and the inner boiler. The bottom of the inner boiler is provided with perforations E E, and the said inner boiler is provided at its ends with vertical upwardly-extending tubes F F, connected at their lower ends with the bottom

flange, and provided at their upper ends with adjustable caps G G, having inwardly-extending branch tubes H, and the upper ends of brackets or braces B², extending upwardly from the sides of the inner boiler, B.

The upper edges of the outer and inner boilers are provided with bearings for a transverse shaft, I, upon which is mounted the revolving casing J, which is polygonal in shape, preferably octagonal, as shown in the drawings hereto annexed. The said casing is constructed of two parts—viz., a body, K, and a hinged cover, L, which latter is provided at its free edge with a latch or catch, M, by means of which it may be connected with the body of the said casing. The sides and ends of the casing J are provided with perforations N N, for the passage of the water or suds.

Arranged transversely in the casing J, diagonally across the sides of the same, are a series of pipes or tubes, O O, the ends of which are provided with openings P, extending through the sides of the casing, said openings being of much smaller diameter than the diameter of the said tubes, thus forming a circumferential rim or flange, Q, around the ends of the latter. The said tubes, which extend alternately in opposite directions across the sides of the casing, are provided in their inner sides with rows of perforations R, through which the boiling water or suds raised or elevated by the said tubes will be discharged onto the clothes contained in the casing, thereby agitating and assisting in cleansing the same.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The clothes to be washed are placed in the revolving casing, and the boiler is partly filled with water or suds and placed upon a furnace which will keep the contents at the boiling-point. The interior casing is then revolved by means of a crank or handle placed upon its axle, when the suds or water will enter the interior diagonal transverse tubes, and thereby be lifted and discharged over the clothes contained in the casing through the perforations in the inner sides of the said tubes. The latter will also serve to lift and agitate the clothes, while steam and water will rise through

the vertical tubes extending upwardly from the bottom flange of the inner boiler and be discharged onto the revolving casing, entering through the perforations in the latter.

5 The dirt as it becomes loosened from the clothes will pass through the perforations in the bottom of the inner boiler and settle on the bottom of the outer boiler. The outer boiler is provided with a suitable cover, which
10 will confine the steam and prevent splashing. By means of this device the clothes may be washed speedily, thoroughly, and with little trouble or exertion.

In the practical construction of this device
15 various changes may be made, and we would have it understood that we do not confine ourselves to the precise construction herein shown and described, but reserve to ourselves the privilege of making all such modifications
20 and alterations as may be resorted to without departing from the spirit of our invention.

Having thus described our invention, we claim and desire to secure by Letters Patent
25 of the United States—

1. In a washing-machine, the combination,

with the double casing or boiler, of the revolving perforated casing having a hinged cover, and provided with interior transverse diagonal tubes extending alternately in opposite directions, and having open ends and perforations in their inner sides, substantially as herein described, for the purpose set forth. 30

2. In a washing-machine, the combination, with the double casing or boiler, of the revolving perforated casing having interior transverse diagonal tubes extending alternately in opposite directions, and having rows of perforations in their inner sides, and provided at their ends with openings extending through the ends of the casing, said openings being of less diameter than the said tubes, substantially as herein described, for the purpose set forth. 35 40

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses. 45

DUDLEY L. BURGESS.
JOHN F. BROXTON.

Witnesses:

E. G. McKEAN,
GEORGE L. DOYLE.