

No. 803,753.

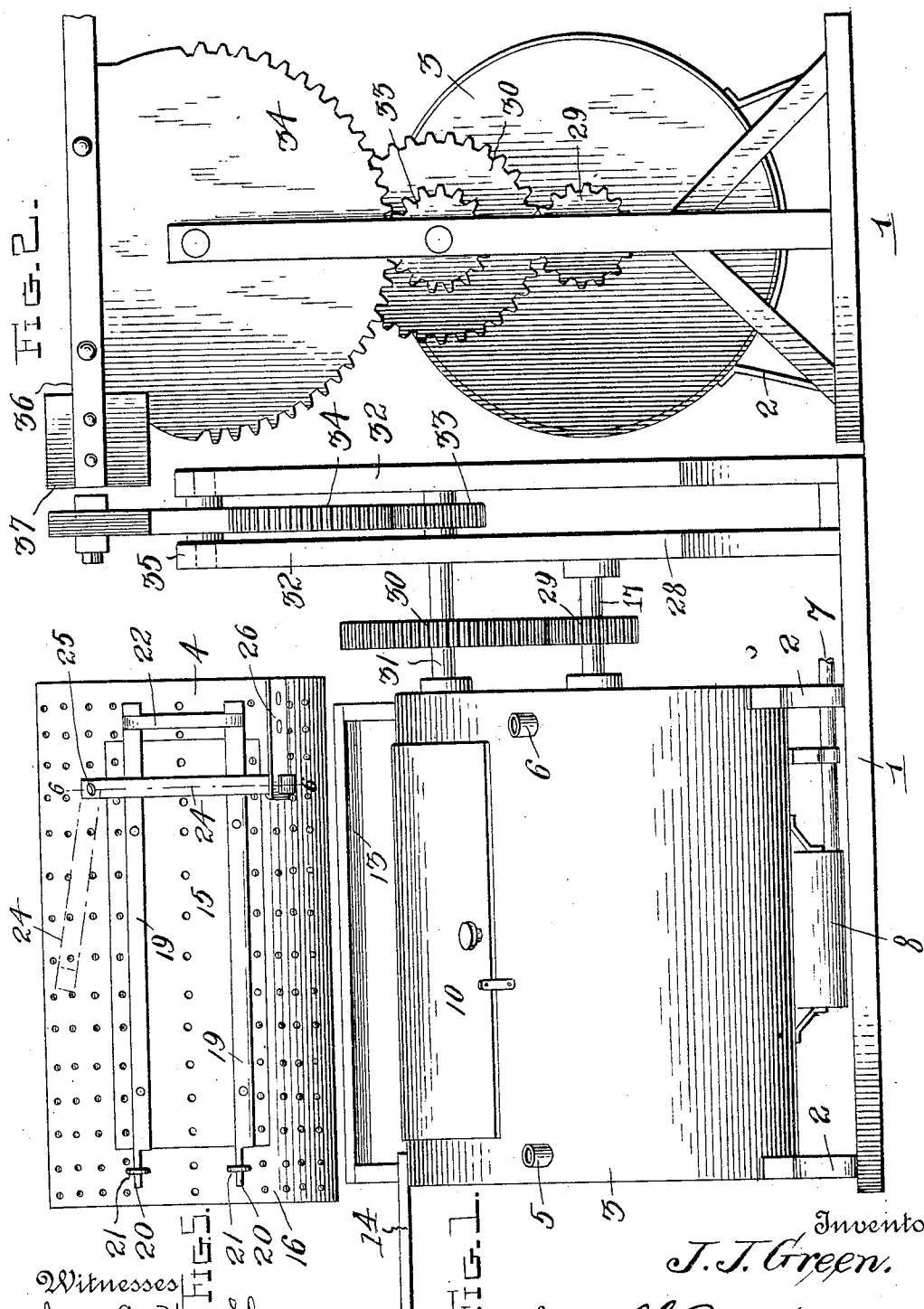
PATENTED NOV. 7, 1905.

J. J. GREEN.

WASHING MACHINE.

APPLICATION FILED JUNE 1, 1905.

2 SHEETS—SHEET 1.



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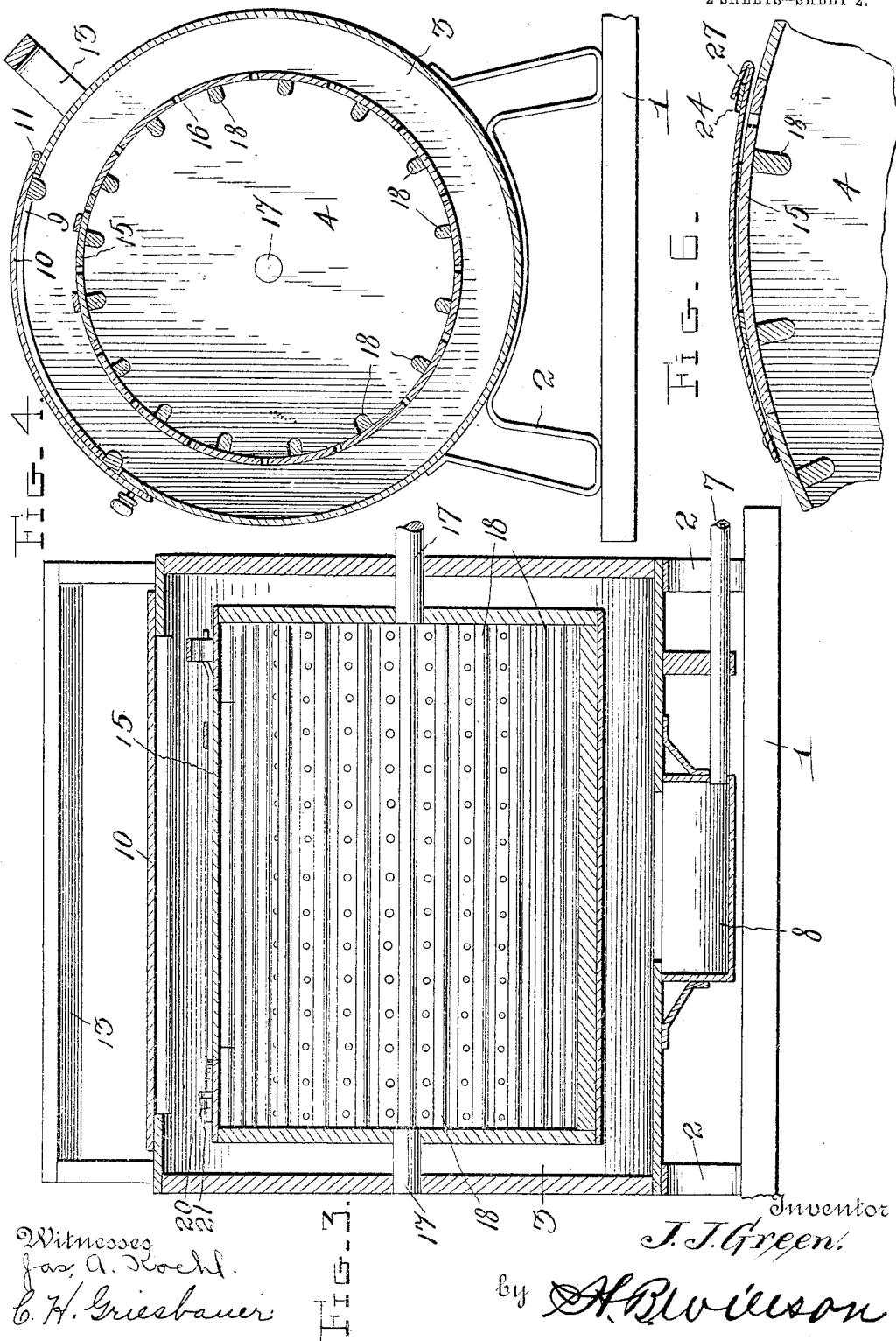
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2 SHEETS—SHEET 2.



Witnesses
for, A. Koch.
C. H. Griesbauer

FIG. 3.

J. J. Green.

by *A. B. Wilcox*

Attorney

UNITED STATES PATENT OFFICE.

JAMES J. GREEN, OF HOUSTON, TEXAS.

WASHING-MACHINE.

No. 803,753.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed June 1, 1905. Serial No. 263,252.

To all whom it may concern.

Be it known that I, JAMES J. GREEN, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, 5 have invented certain new and useful Improvements in Washing-Machines; 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 10 it appertains to make and use the same.

My invention relates to improvements in washing-machines of the rotary-cylinder type; and it consists in the novel construction, combination, and arrangement of 15 devices herein shown and described.

In the accompanying drawings, Figure 1 is a side elevation of a washing-machine constructed in accordance with my invention. Fig. 2 is an end elevation of the same. Fig. 20 3 is a detail vertical longitudinal sectional view through the casing and the rotary cylinder. Fig. 4 is a transverse sectional view through the parts shown in Fig. 3. Fig. 5 is a plan view of the rotary cylinder, showing 25 its removable cover; and Fig. 6 is a detail sectional view taken on the line 6 6 in Fig. 5.

Referring to the drawings by numeral, 1 denotes a suitable base or support, upon which is supported by means of legs 2 the 30 outer casing or body 3 of the machine. This casing is preferably in the form of a cylinder disposed horizontally and is adapted to contain a rotary washing-cylinder 4 and the water and soapsuds within which the washing- 35 cylinder is rotated. Suitable inlet-pipes 5 6 are provided in the casing for hot water and steam, and a suitable outlet or discharge pipe 7 is provided to permit the water to be removed from the casing. This outlet or discharge pipe 7 projects from a depending chamber or casing 8, secured upon the bottom of the casing 3 at its center and in communication with the same, so that the water will drain from the bottom of the casing 3 40 into the casing 8. The cylinder-casing 3 is formed in its top with an opening 9, which is adapted to be closed by a door or cover 10, which is hinged, as shown at 11, upon one side of the opening 9 and adapted to be secured in its closed position by a latch or fastener 12. This cover 10 may be supported in its open position by a supporting-frame 13, which is provided upon the upper portion of the outside of the casing 3. A supporting- 45 shelf 14 is also provided at one end of the top of the casing to support the removable cover

15 of the washing-cylinder 4 when the clothes or other materials to be washed are placed into or removed from said cylinder 4.

The washing-cylinder 4 is constructed of 60 perforated sheet metal or other foraminous or reticulate material 16 and is secured upon a longitudinally and concentrically disposed shaft 17, which extends through bearings provided in the ends or heads of the cylindrical 65 casing 3. Upon the interior of the washing-cylinder 4 are provided longitudinally-extending bars or ribs 18, which are adapted to engage the clothes or materials being washed to agitate the same and to prevent them from 70 settling and remaining upon the bottom of the washing-cylinder. The removable cover or closure 15 for the washing-cylinder 4 is adapted to be fastened in its closed position by providing upon its outer side two longitudinally-extending bars or strips 19, which have at 75 one end reduced portions 20, adapted to engage staples or eyes 21, provided upon the outer surface of the cylinder 4 at one end of its opening. The opposite ends of the bars 80 or strips 19 are connected by a cross-strip 22, which forms a handle, and the adjacent end of the cover 15 is adapted to be held closed by a swinging latch 24. The latter is pivoted at one of its ends, as shown at 25, upon 85 one side of the opening in the cylinder 4, so that it may be swung across the cover and engaged with a spring-keeper 26, as shown in Figs. 5 and 6 of the drawings. This keeper 90 consists of a metal plate secured at one of its ends and having its opposite end bent inwardly, as shown at 27, so that the free end of the latch 24, which is resilient, may be swung under said portion 27 and then back between the latter and the main portion of 95 the keeper, as shown in Fig. 6 of the drawings. When it is desired to remove the cover 15, the latch 24 is swung longitudinally with respect to the cylinder 4, as shown by the dotted lines in Fig. 5 of the drawings. One end 100 of the shaft 17 is extended and mounted in a bearing provided upon an upright frame 28, mounted at one end of the base or support 1. Said end of the shaft 17 has secured upon it a pinion 29, which meshes with a gear 30, secured upon a counter-shaft 31, which is 105 mounted in bearings upon the adjacent end of the cylinder 4 and the upright frame 28. Secured upon the shaft 31 between parallel upright portions 32 of the frame 28 is a pinion 33, which meshes with a segmental gear 34, secured upon a stub-shaft 35, mounted in 110

bearing-openings at the upper ends of the uprights 32. This segmental gear 34 has secured thereon a hand-lever 36, which carries at one end a weight 27. It will be seen that 5 when the lever 36 is rocked the washing-cylinder 4 will be rotated one or more revolutions in one direction, then in the reverse direction, and that the operation of said lever is greatly facilitated by the provision of the 10 weight 37.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood.

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

In a washing-machine, the combination of a rotary cylinder of reticulate material, a re-

movable cover for said cylinder, fastening-strips upon said cover having reduced portions at one end and a connecting-bar at their opposite ends, staples upon said casing to be engaged by the reduced portions of said strips, a latch pivoted upon said cylinder and adapted to be swung transversely across said strips and said cover, and a keeper upon said cylinder having an undeturned portion at one of its ends adapted to be engaged by the resilient end of said latch, substantially as 20 described.

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

JAMES J. GREEN.

Witnesses:

J. M. BAKER,
C. N. LOVE.