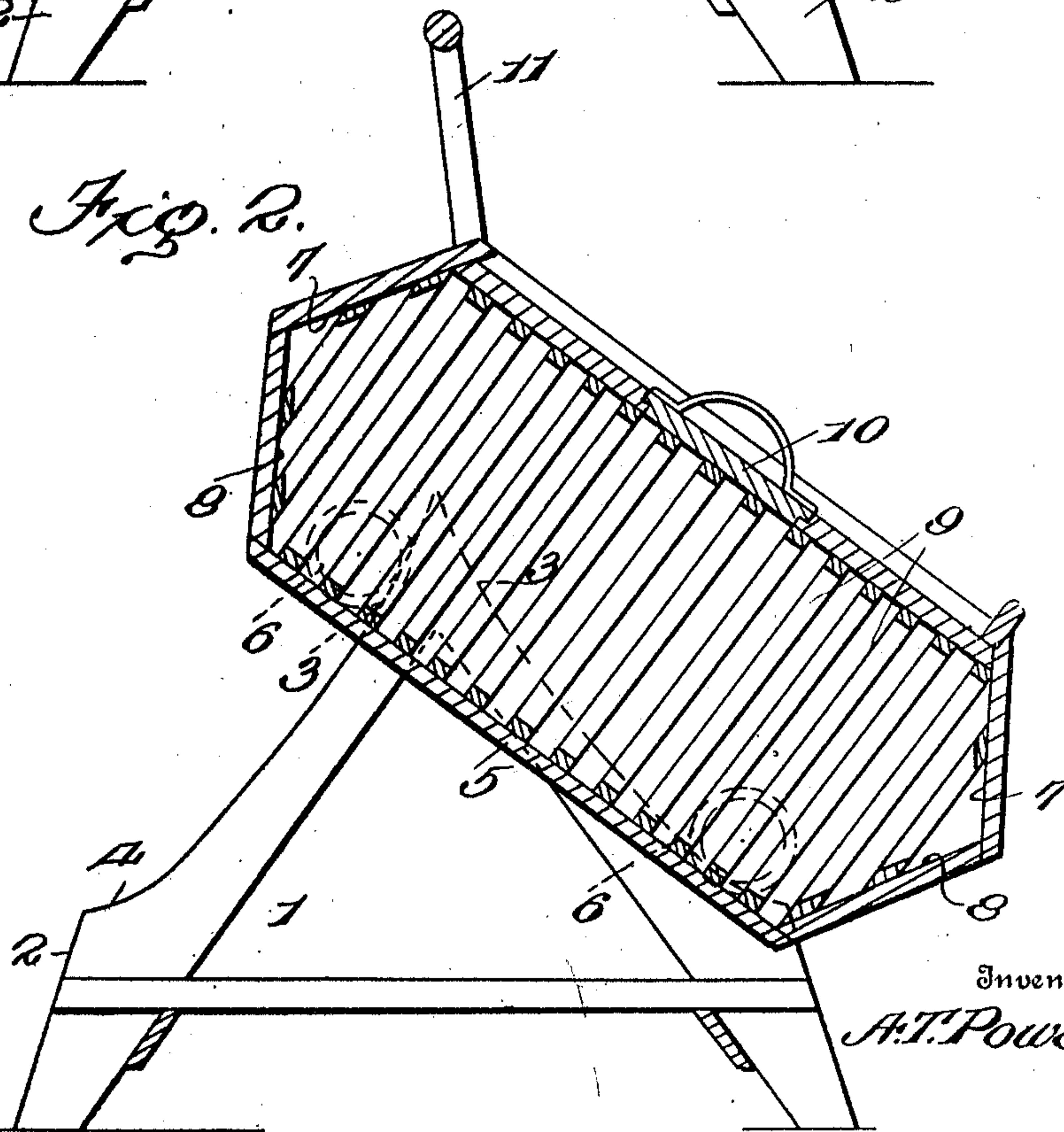


953,227.

2 SHEETS—SHEET 1.



Inventor

A.T. Powell

Witnesses

Witnesses
J. M. M. M.
W. P. M. M.

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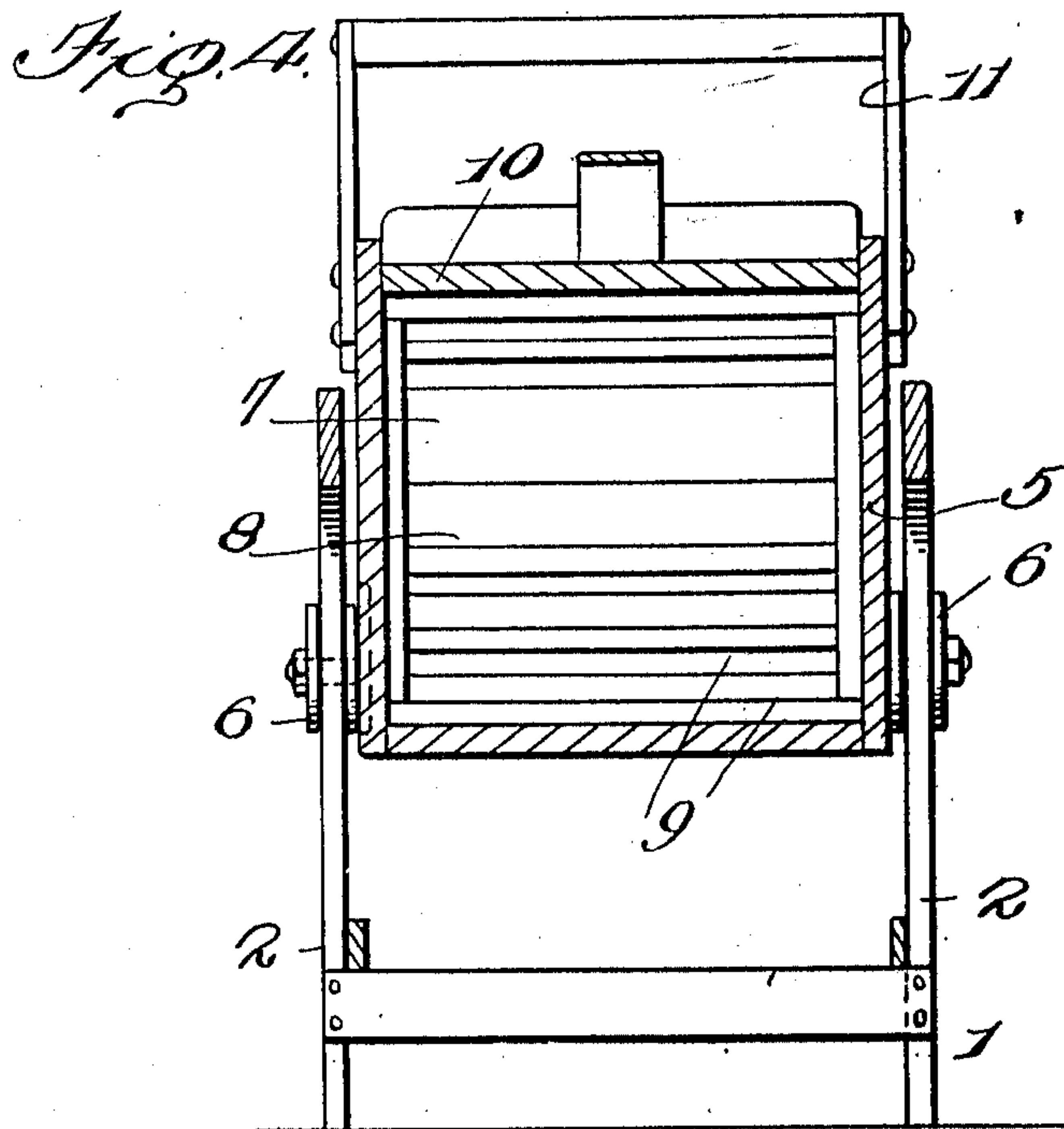
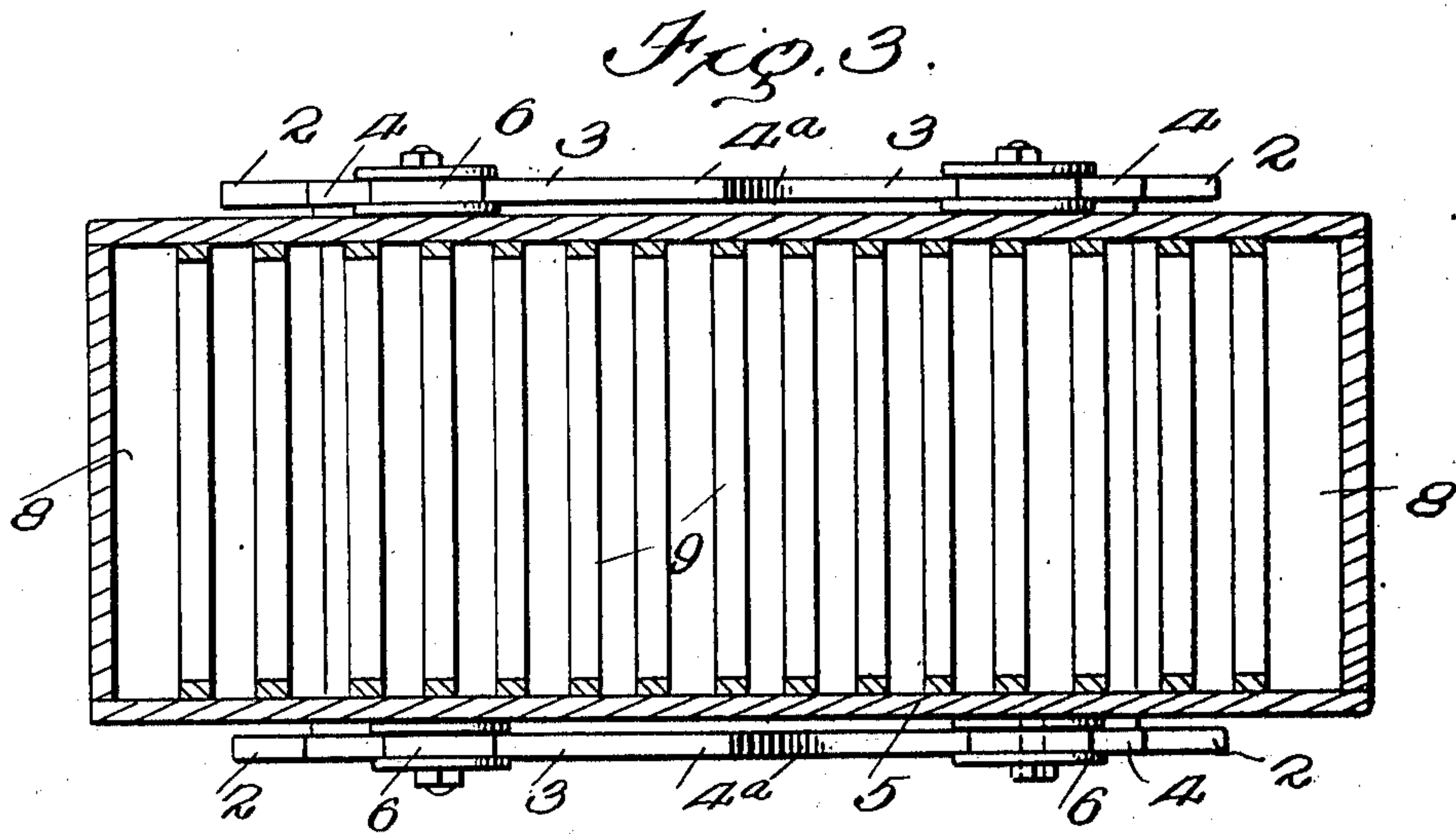
Phabrey, Attorneys

A. T. POWELL.
WASHING MACHINE.
APPLICATION FILED OCT. 20, 1908.

953,227.

Patented Mar. 29, 1910.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALBERT T. POWELL, OF PORT CHESTER, NEW YORK.

WASHING-MACHINE.

953,227.

Specification of Letters Patent. —Patented Mar. 29, 1910.

Application filed October 20, 1908. Serial No. 458,651.

To all whom it may concern:

Be it known that I, ALBERT T. POWELL, citizen of the United States, residing at Port Chester, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention comprehends certain new and useful improvements in washing machines of the oscillating type, and the object of the invention is an improved machine of this character which is primarily intended for use in laundries, or the like, where washing is conducted upon a large scale, although it is to be understood that it may be also successfully employed for domestic use; which embodies a peculiar construction so as to effect the thorough agitation of the clothes and cleanse the same in a comparatively short time and with a minimum amount of labor; which is susceptible of being conveniently operated by hand or by machinery, and which possesses certain other advantages, that will become at once apparent as the invention is disclosed, over the ordinary devices of this character in general use.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe, and then point out the novel features thereof in the appended claim.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a side elevation of a washing machine constructed in accordance with my invention; Fig. 2 is a vertical longitudinal section thereof; Fig. 3 is a horizontal longitudinal section, the section being taken on the line 3—3 of Fig. 1; and, Fig. 4 is a transverse section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

In carrying out my invention, I provide a stand 1 which may be of any desired or improved construction or design, except that it embodies two spaced side members 2 which

are substantially similar in form and preferably frame-like in structure, and which constitute double inclined tracks or runways 3, of substantially inverted V-shape, the sides of each track being oppositely inclined and arranged at an acute angle with respect to each other. In the present instance, these tracks are provided at corresponding points near their lower ends with stops 4 for a purpose to be presently disclosed.

5 designates a preferably elongated box or body which carries on its opposite sides, near the lower edge of the same, pairs of longitudinally spaced channeled rollers which are designed to engage the respective tracks 3 to support the body between the side members 2 and render it susceptible of oscillation therebetween. The ends of the body 5 are oppositely tapered, as shown, to constitute upper and lower inclined deflecting surfaces 7 and 8, and the interior of the box is preferably provided with a plurality of transverse ribs 9 so as to form a roughened surface against which the garments are designed to be rubbed during the operation of the machine.

In order to permit the garments to be conveniently introduced into and removed from the body 5, the same is provided in its top with a door 10 which is of any suitable construction and which is preferably arranged so as to be capable of being conveniently opened when desired, to permit the inspection of the contents of the body during the washing process.

In the practical use of my improved washing machine, the latter is oscillated so as to cause the rollers 6 to travel back and forth upon the respective tracks 3 between the apexes thereof and the corresponding stops 4, and in the present instance the body portion is provided with a handle 11 by means of which it is rendered susceptible of manual operation. When one end of the body 5 is depressed, the contents of the same will gravitate toward such end and will strike against the lower surface 8, from which they will be deflected against the upper surface 7, and will then be caused to move toward the opposite end of the body, thereby forming upper and lower currents within the body and causing the garments to be effectually agitated therein and rubbed against the ribs 9 during their traverse in the same. When the body 5 is inclined in

the opposite direction, with the other end depressed, the above operation will be repeated, and it will thus be seen that when a comparatively rapid oscillatory motion is imparted to the body, the clothes will be thoroughly cleansed with a minimum exertion of power.

From the foregoing description, in connection with the accompanying drawings, it will be apparent that I have provided an improved washing machine which embodies to a marked degree the elements of simplicity and durability and is not likely to get out of order, even when subjected to hard usage; which is efficient in operation and may be economically actuated so as to render it capable of being advantageously employed in laundries or the like, and which consists of comparatively few parts that may be easily and cheaply manufactured and readily assembled.

It will also be observed that a machine constructed in accordance with my invention may be successfully employed as a churn, although in this instance, it would be unnecessary to provide the ribs 9 in the interior of the body portion 5.

As a precautionary measure, to preclude the possibility of the body portion becoming detached from the stand during the operation of the washing machine, I have, in the present instance, extended the tracks 3 near the apexes or upper ends thereof, so as to form stops 4^a which prevent the rollers at the elevated end of the body portion from becoming accidentally disengaged from the tracks, and which thus prevent the rocking of the body portion from becoming

too violent. Furthermore, it will be seen that the stops 4 and 4^a are so spaced and the tracks or runways 3 so arranged that when the rollers at the depressed end of the body portion abut against the corresponding lower stops 4, the body portion may be swung about such rollers as fulcrums for a considerable distance before the rollers at the elevated end thereof will abut against the upper stops 4^a to limit such rocking movement.

Having thus described the invention, what I claim is:

A washing machine including a stand having side members spaced apart by transverse connecting bars, said side members being each formed of converging side bars the upper portions of which constitute upwardly inclined tracks, and their lower portions supporting legs the active edges of the track being curved laterally at points adjacent to the transverse connecting bars to form stops, a receptacle mounted for oscillation on the tracks and provided with wheels having oppositely disposed flanges bearing against the inner and outer faces of said tracks, said tracks embracing the major portion of the receptacle with their apexes disposed near the upper edge of said receptacle and in a plane above the rims of the wheels when the receptacle is at rest.

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

ALBERT T. POWELL. [L. S.]

Witnesses:

JAMES F. STEVENS,
GEO. A. STUDWELL.