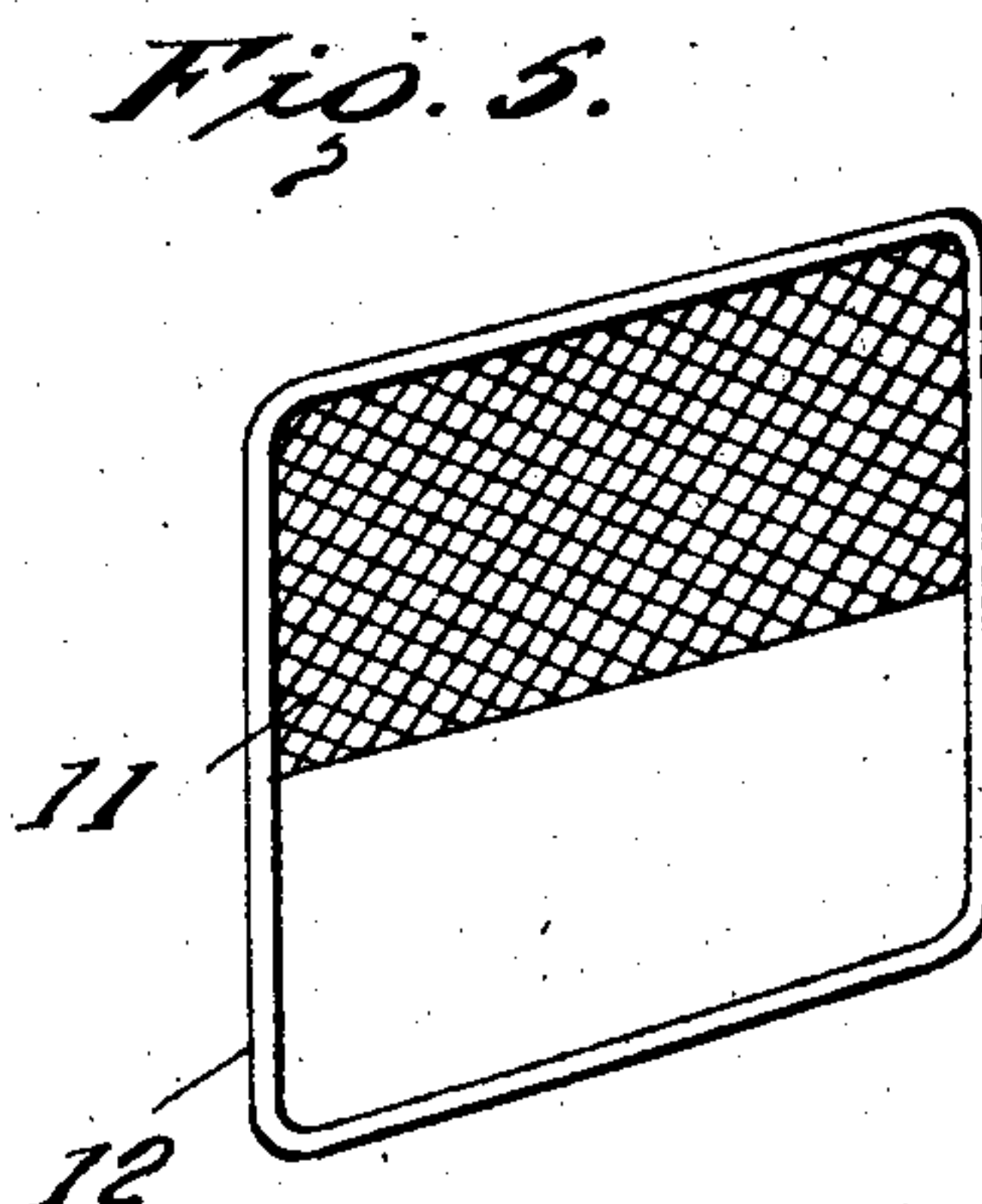
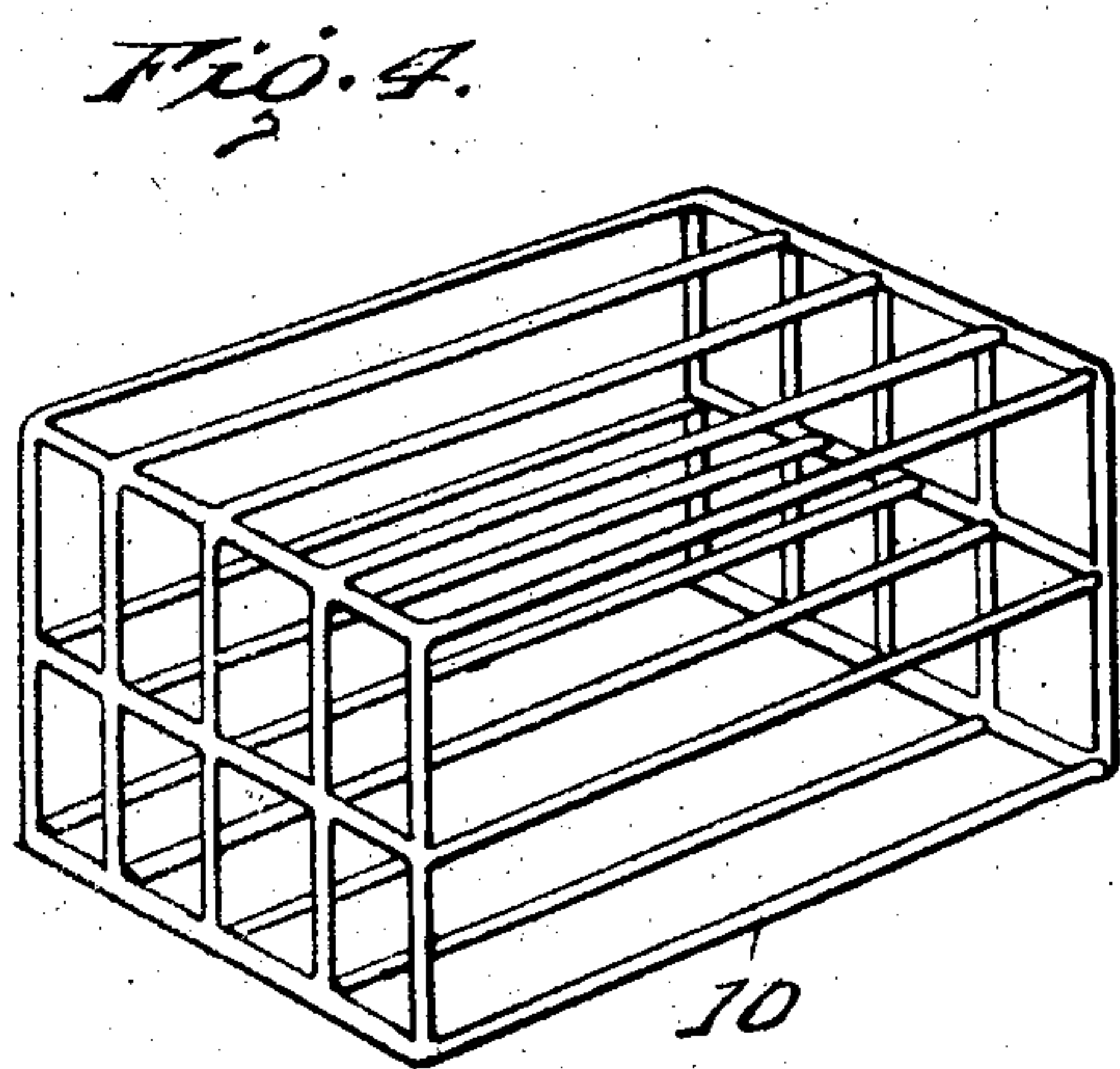
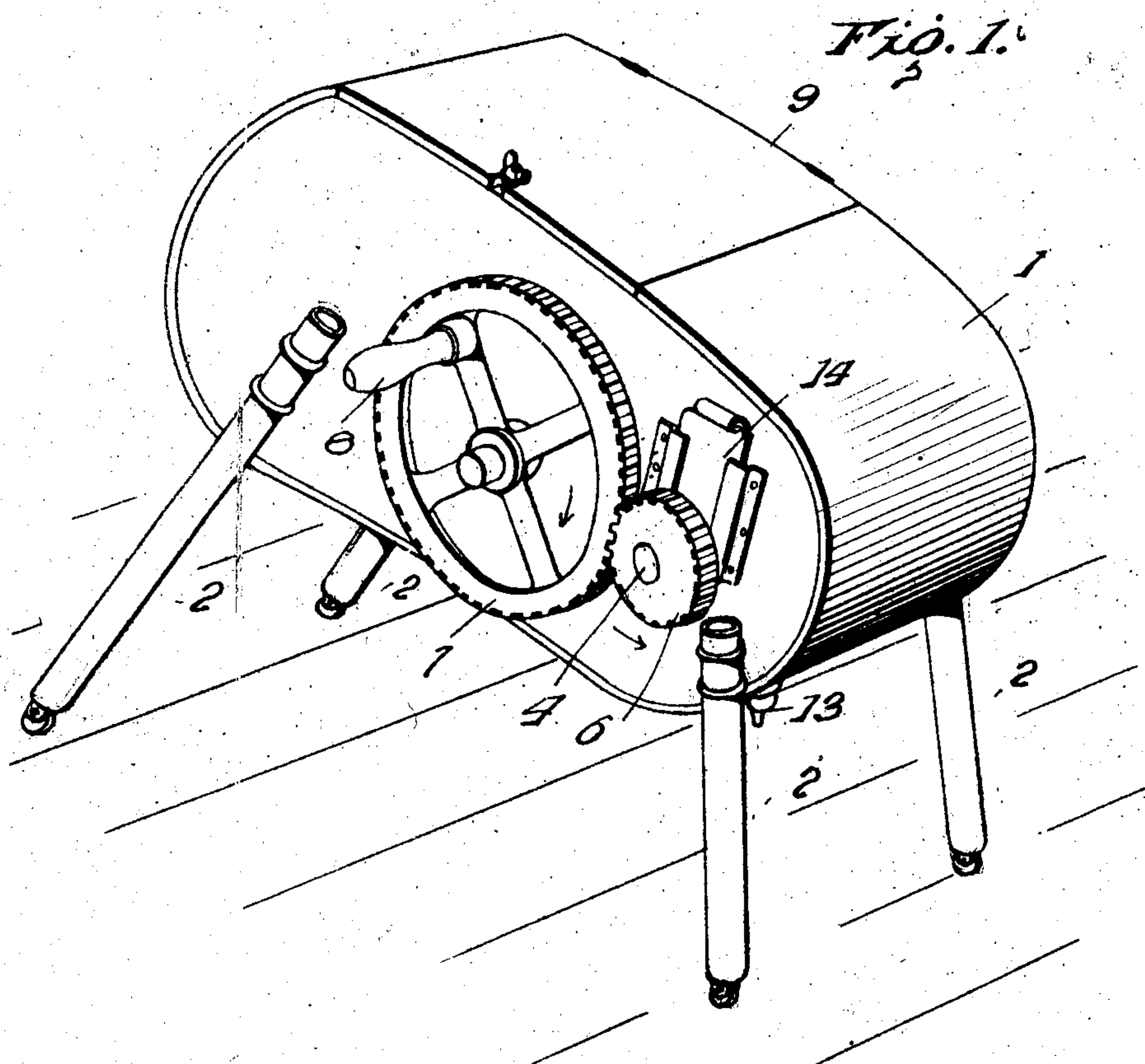


No. 835,060.

PATENTED NOV. 6, 1906.

C. W. DONNELL.
DISH WASHING MACHINE.
APPLICATION FILED FEB. 15, 1906.

2 SHEETS—SHEET 1.



Inventor

C. W. Donnell

Witnesses

J. A. Miller
W. D. Woodson

By

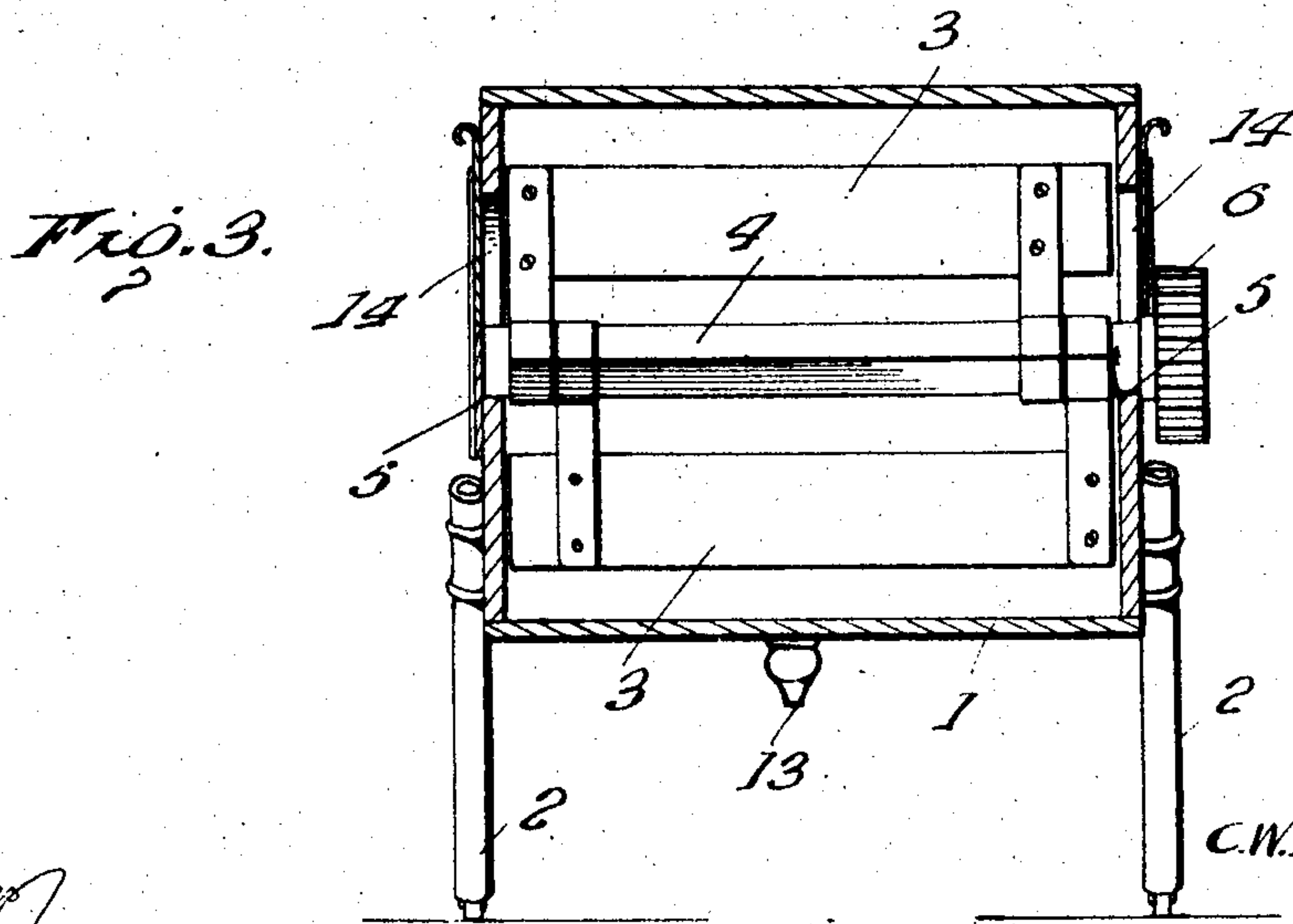
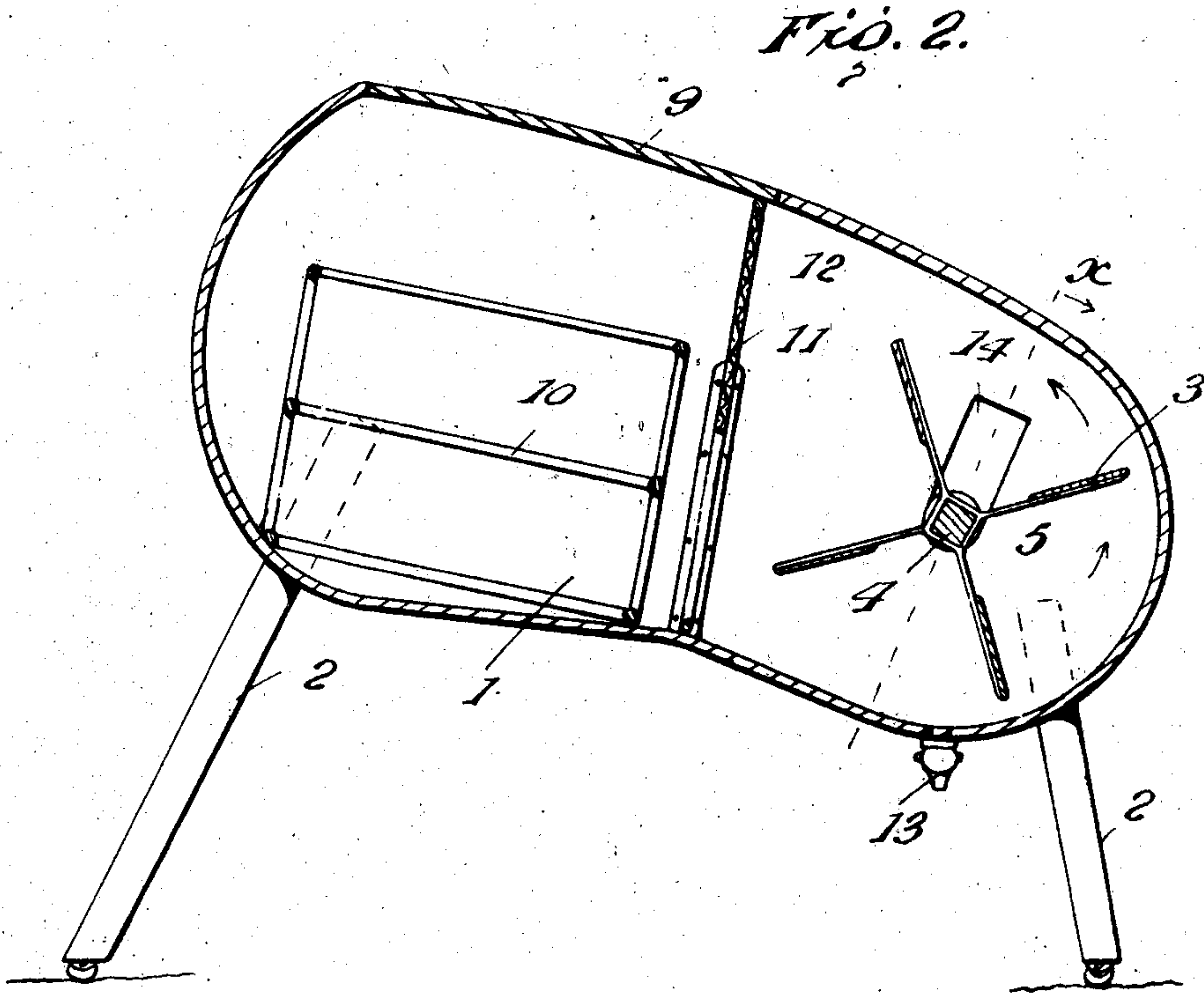
Thos. R. Racy, Attorneys

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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

COLUMBUS W. DONNELL, OF GRAND, OKLAHOMA TERRITORY.

DISH-WASHING MACHINE.

No. 835,060.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed February 15, 1906. Serial No. 301,220.

To all whom it may concern:

Be it known that I, COLUMBUS W. DONNELL, a citizen of the United States, residing at Grand, in the county of Day, Oklahoma Territory, have invented certain new and useful Improvements in Dish-Washing Machines, of which the following is a specification.

This invention embodies an improved dish-washing machine, and resides in details of construction the advantages of which will appear more fully hereinafter and the structure of which will be finally claimed.

In carrying out the invention the machine is comprised of a reservoir or receptacle adapted to receive the dishes and having a propeller mounted therein by which water received in the reservoir is adapted to be thrown against the dishes to effect the desired cleansing action, said propeller comprising also a fan to direct air against the dishes after they have been washed to facilitate drying thereof.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of a washing-machine embodying the invention. Fig. 2 is a longitudinal sectional view of the invention. Fig. 3 is a transverse section on the line X X of Fig. 2. Fig. 4 is a detail perspective view of the dish-rack. Fig. 5 is a detail perspective view of the dividing-screen.

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.

The reservoir 1 of the machine is preferably of elongated form and is mounted on legs 2 or similar supports in such a way that one end of the reservoir is arranged lower than the other end, so that the cleansing fluid used will gravitate toward the end of the reservoir in which is located the propeller 3. The propeller 3 is mounted on a shaft 4, supported in suitable bearings 5 at opposite sides of the reservoir, one end of the shaft 4 projecting through one of the sides of the reservoir and having a pinion 6 mounted thereon. The pinion 6 is in mesh with a gear 7, having a crank-handle 8 applied thereto, the parts 6, 7, and 8 constituting the operating mechanism whereby the shaft 4 and pro-

PELLER 3, carried thereby, are adapted to be actuated. The top of the receptacle or reservoir 1 is provided with an opening adapted to be closed when the machine is in operation by means of a suitable cover 9. The opening aforesaid will be nearer the upper end of the receptacle, and a dish-supporting rack 10 is adapted to be arranged within the receptacle by being passed through the opening, said rack being readily removable, permitting ready withdrawal of the dishes after they have been cleansed. The rack 10 may be of any substantial construction admitting of arranging dishes of different shapes thereon in such a way that the rack may be placed in position and removed bodily after the dishes have been placed upon the same. It will be observed that the rack 10 is located at the higher end of the reservoir 1, and, as before mentioned, the propeller 3 is located at the lower portion. The propeller 3 rotates in the direction indicated by the arrow and will force the water or other cleansing fluid against the dishes with great impetus and thoroughly wash the same. Between the propeller 3 and the rack 10 is located a dividing-screen 11, which prevents the dregs drained from the dishes from being thrown thereagainst, said screen 11 being carried by a frame 12 and occupying the upper portion of said frame, the lower portion of the latter being open. In other words, the screen 11 is in the path through which the cleansing fluid under the influence of the propeller is projected, the space below the screen being open, so as to freely permit of gravitation of the cleansing fluid after it has been thrown against the dishes in washing the same. The cleansing fluid may be supplied to the reservoir 1 in any suitable way, and a suitable draw-off cock 13 will be located at the lower end of the reservoir, so that the liquid contents thereof may be drawn off after the washing operation is completed.

The opposite sides of the reservoir 1 are provided with air-openings adapted to be closed by valves 14, and this feature of the invention is advantageous in that as soon as the dishes have been washed and the liquid contents of the reservoir 1 withdrawn the valves 14 may be opened, and the propeller 3 may then be actuated so as to force a current of air against the dishes and quickly dry the same, saving the time and trouble involved in the usual method of drying the dishes with a towel or cloth. The valves 14 are lo-

cated near the end of the propeller, and the propeller itself is constructed so as to readily perform its function as a fan on the lines hereinbefore described.

5 Having thus described the invention, what is claimed as new is—

1. In a washing-machine, the combination of an elongated reservoir inclining downwardly toward one end thereof, a dish-supporting rack within the uppermost end portion of the reservoir, a propeller in the lower end portion of the reservoir, means for actuating the propeller, and a screen-supporting frame between the propeller and the rack and
10 15 having a screen of comparatively fine mesh at its upper portion for the purpose set forth, the lower portion of said frame being open as specified.

2. In a washing-machine, the combination

of an elongated reservoir inclining downwardly toward one end thereof, a dish-supporting rack within the uppermost end portion of the reservoir, a propeller in the lower end portion of the reservoir, means for actuating the propeller, a screen-supporting frame between the propeller and the rack and having a screen at its upper portion, the lower portion of said frame being open as specified, and valved air-inlet openings at opposite sides of the reservoir adjacent to opposite ends of the propeller. 20 25 30

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

COLUMBUS W. DONNELL. [L. S.]

Witnesses:

I. N. KLEPINGER,
DAVID SELBY.