(No Model.)

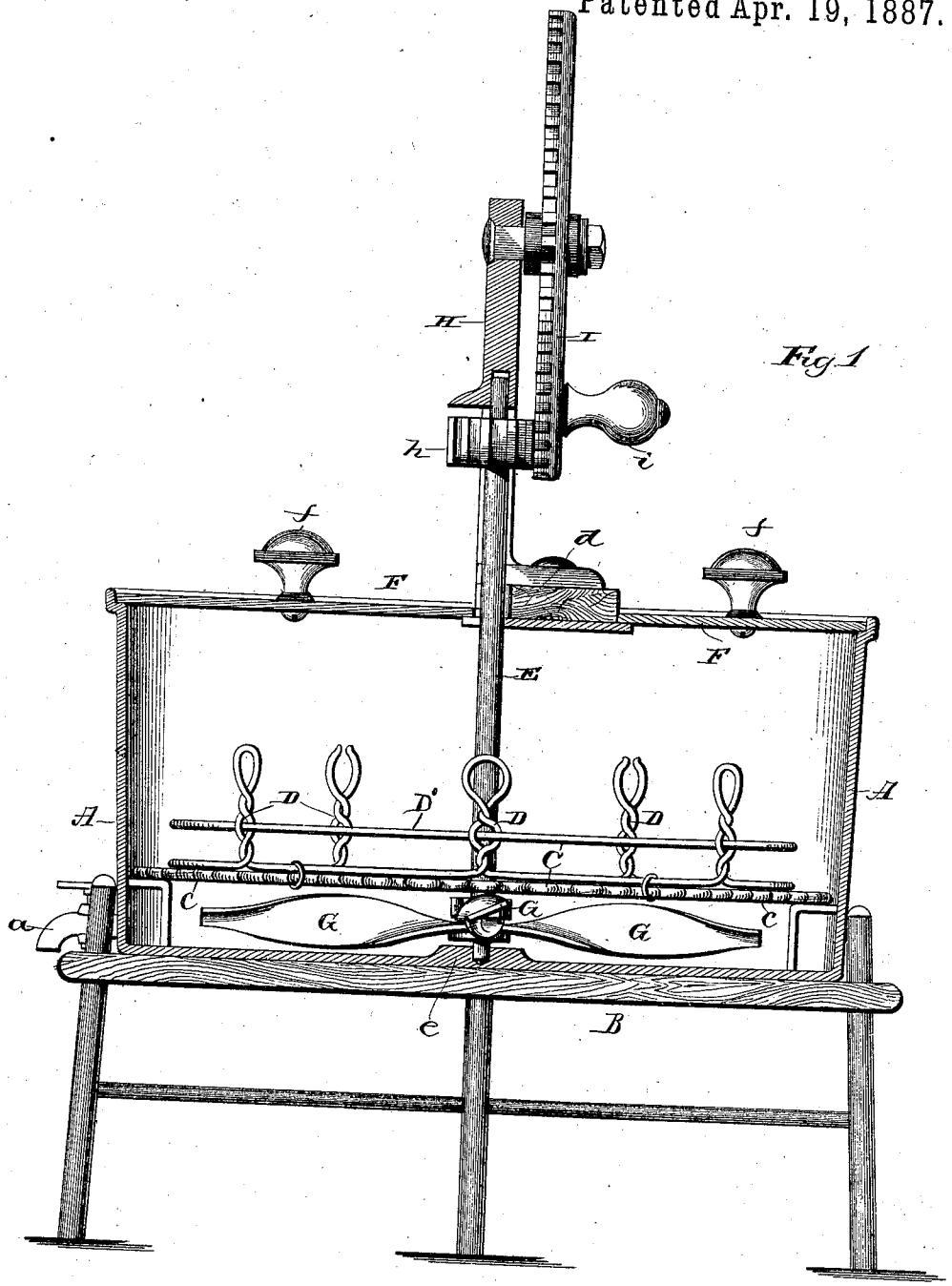
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D. B. PECK.

DISH WASHING MACHINE.

No. 361,320. Patented Apr. 19, 1887.

Fig. 1



WITNESSES

Geo. F. Downing.

N. E. Jones

INVENTOR

Daniel B. Peck

By H. A. Seymour Attorney

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

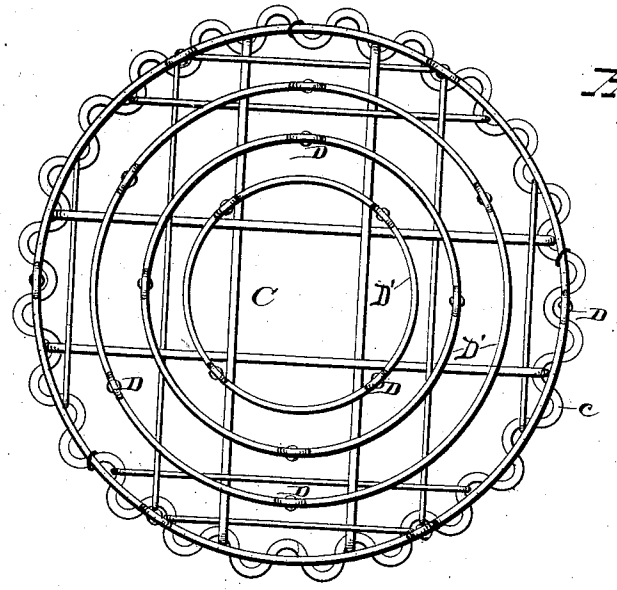
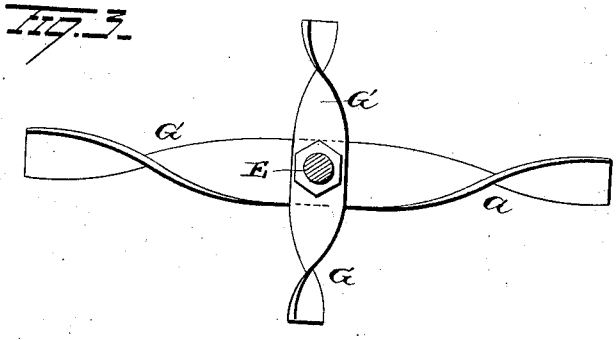


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

DANIEL B. PECK, OF JACKSON, MICHIGAN.

DISH-WASHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 361,320, dated April 19, 1887.

Application filed July 27, 1886. Serial No. 209,252. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. PECK, of Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Dish-Washing Machines; and I do hereby 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 appertains to make and use the same.

My invention relates to an improvement in dish-washing machines, the object of the same being to provide a cheap, durable, and simple machine, by the use of which dishes can be washed with very much greater rapidity and more thoroughly than by the methods hitherto in use; and with these ends in view my invention consists in an agitator located beneath a perforated dish-support, and provided with wings adapted to throw water in every conceivable direction.

My invention further consists in a dish-support located above the agitator, and adapted to hold cups, saucers, plates, &c., in the most advantageous positions for receiving the forced jets of water.

My invention further consists in certain features of construction and combinations of parts, as will be hereinafter described, and pointed in the claims.

In the accompanying drawings, Figure 1 is a view of the machine, the receptacle being partially broken away to expose the dish-support and agitator. Fig. 2 is a detached view of the dish-support, and Fig. 3 is a detached view of the agitator.

A represents the dish tub. It consists, preferably, of a cylindrical tub with sides straight or flaring, as may be found most convenient. The tub A is supported upon a suitable base, B, and provided with a faucet, *a*, at its bottom for drawing off the water. The tub A is further provided, a short distance above its bottom, with a perforated dish-support, C. The support C is conveniently constructed of wire woven in coarse meshes and attached to a circular wire rim, *c*, which has a diameter just great enough to allow the support to drop within the tub to the desired point above the bottom in case the tub is flaring, or to freely slide within the tub down onto suitable supports located at the proper distance from the bottom in case the tub has upright sides.

The upper face of the support C is provided with several concentric bands, D′, the interstices between which are preferably narrower, as these bands are of less diameter, and extending upward from the bands are a series of props or spring-clamps, D, for holding cups, bowls, and the like in reversed positions thereon, and for receiving between them the edges of plates, saucers, and the like, and holding the same apart from one another and standing on their edges.

An upright shaft, E, is journaled at its lower end in suitable bearings, *e*, in the bottom of the tub, and extends upwardly through the center of the support C, and through a cross-bar, *d*, or through the two-part cover F. Laterally-extending twisted arms or blades G are secured to the shaft E, below the dish-support, two of the arms G being preferably longer and two shorter, as shown in the drawings. The twist of the arms or blades is such that when the shaft is rotated and the arms are thereby forced laterally through the water, they will throw the water from their edges in all directions upwardly and outwardly therefrom, the shorter arms being set at different angles from the longer arms, and causing an increased velocity of jets near the central portion of the dish-support.

The upper end of the shaft E is journaled in an upright bracket, H, secured to the cross-bar *d* or cover F, and is provided with a pinion, *h*, adapted to mesh with an annular gear on the side of an operating-wheel, I. The wheel I is mounted on a stub-axle set in the side of the bracket, and is provided with a handle, *i*. The two halves of the cover F are each conveniently provided with knobs *f*, for convenience in removing and adjusting the same.

The operation is as follows: Place the cups, bowls, &c., in an inverted position on the props D, and the plates, saucers, &c., between two or more successive props—the larger plates the farthest away from the center. Pour in soft water enough to cover the arms of the agitator, and add a little soft soap or hard soap dissolved in water. Rotate the shaft E briskly forwardly and backwardly. Draw off

the dirty water, add clear soft water, agitate as before, and draw the water off. The dishes may now be removed and wiped with a dry cloth, or they may be left to drip. The whole operation will not occupy more than five minutes.

To remove the agitator and dish-support for cleansing purposes, remove the bracket H from the cross-bar and raise the shaft E and dish-support, tilting them out at the larger opening at the top.

It is evident that springs might be used to retain the plates, saucers, &c., in position, as shown at *i*, and that many slight changes in the form and arrangement of the several parts might be made without departing from the spirit and scope of my invention; hence I do not wish to limit myself, strictly, to the construction herein set forth.

I am aware that it is not new to locate an agitator in the bottom of a tub below a perforated dish-support and rotate the same by means of gear, and hence I do not claim the same, broadly; but,

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

1. The combination, with a suitable dish-receptacle and a skeleton disk-shaped dish-support mounted horizontally near the lower end of the receptacle, said dish-support being provided with upright holders for retaining the dishes in position, of the alternate long and short twisted or curved arms extending perpendicularly from the rotary shaft directly beneath the dish-support, and the gear mechanism for operating the washer, substantially as set forth.

2. The combination, with a suitable dish-receptacle having a two-part cover and a skeleton disk-shaped dish-support mounted horizontally in the receptacle near its lower end, said dish-support being provided with several concentric sets of bands and upright spring-clamps and holders for retaining dishes of various form in position, of the alternate long and short twisted or curved arms extending perpendicularly from the rotary shaft into the space between the dish-support and bottom of the receptacle, and the detachable gear-operating mechanism at the top of the washer, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL B. PECK.

Witnesses:
E. A. CLEMENT,
CHAS. E. SNOW.