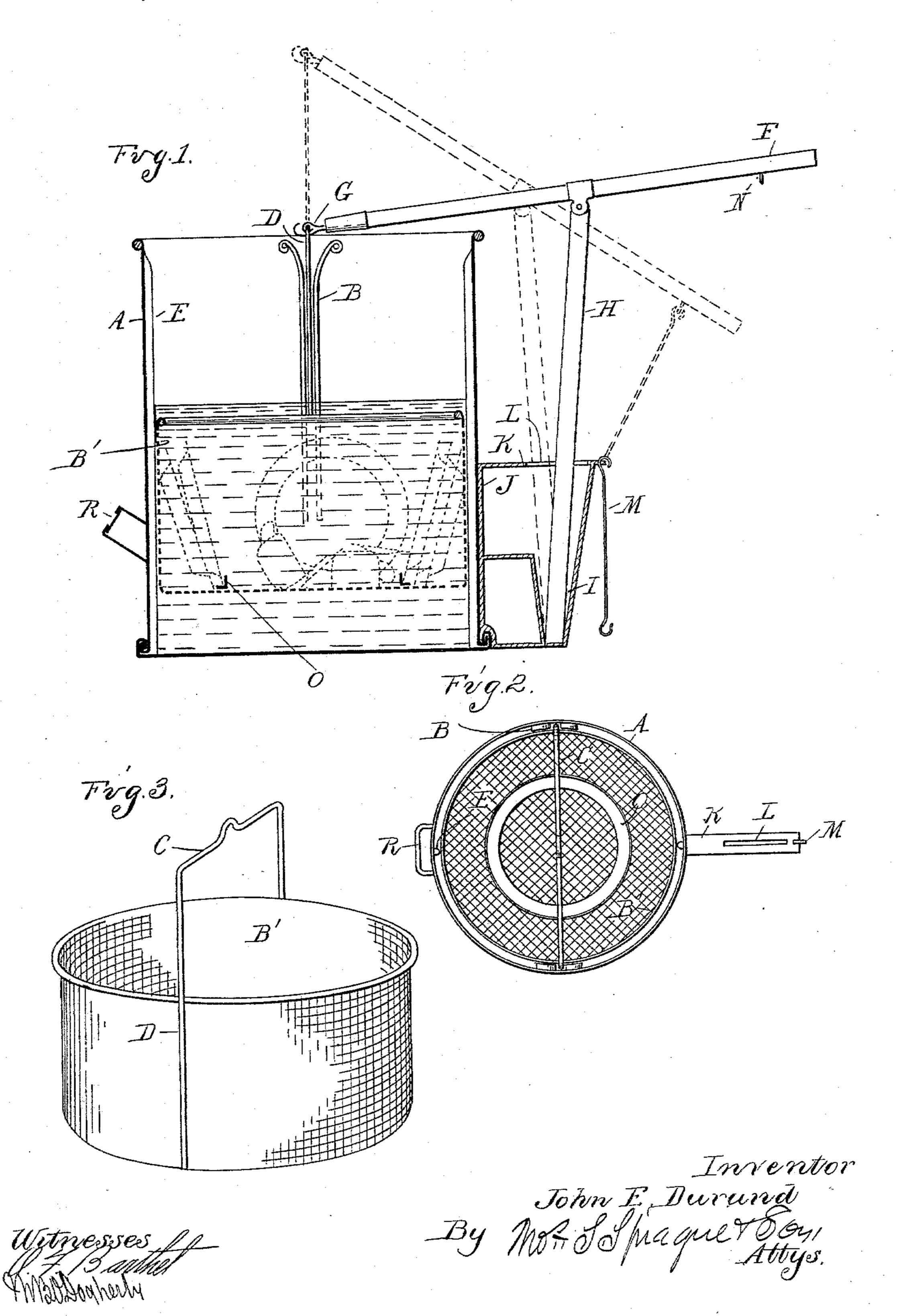
(No Model.)

J. E. DURAND.
DISH CLEANER.

No. 563,914.

Patented July 14, 1896.



United States Patent Office.

JOHN E. DURAND, OF JACKSON, MICHIGAN, ASSIGNOR TO JOHN L. HUB-BARD, OF SAGINAW, MICHIGAN.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 563,914, dated July 14, 1896.

Application filed September 27, 1895. Serial No. 563,868. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. DURAND, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michi-5 gan, have invented certain new and useful Improvements in Dish-Washing Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to the construction of a dish-washing machine; and it consists in a device embodying a pail or tank vessel having vertical guides therein, a perforated dishholder or basket having ribs engaging the 15 guides, a lever for actuating the dish-holder and a fulcrum-bar for the lever detachably supported in a socket on the vessel.

The invention further consists in the construction, arrangement, and combination of 20 the various parts, all as more fully herein-

after described.

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In the drawings, Figure 1 is a vertical central section through my improved device. Fig. 2 is a top plan view with the operating-25 lever removed, and Fig. 3 is a detached perspective view of the dish-holder detached.

A is a vessel, pail, or tank, preferably metallic, having an open top. On opposite sides within are the separated vertical guides B, 30 preferably V-shaped at the top, as shown in

Fig. 1. B' is a dish-holder or basket. This I preferably make of wire or open work, so that the water may pour readily through it. It 35 may be made in any way to accomplish this result. This dish-holder fits loosely within the vessel A, so as to freely reciprocate therein.

C is a fixed bail for the dish-holder, having its vertical legs D preferably extending to at 40 or near the bottom thereof on the outside. These vertical legs engage between the guides B and thus guide the dish-holder in its reciprocations. Between the pairs of guides B, I preferably arrange guides or rub-irons E to 45 prevent any tendency of the dish-holder to wabble.

F is a lever, having a suitable hook G, preferably the double hook, as shown in Fig. 1, adapted to engage with the top of the bail C.

This lever has pivoted to it the fulcrum-bar 50 H. This bar at its lower end detachably engages in the tapering socket I, secured to one side of the receptacle on the bracket J. This bracket J has an arm K, having a guide-slot L, through which the bar H passes and is 55 guided in its oscillation.

M is a hook on the end of the arm K, adapted

to engage with an eye N on the lever.

O is a ring-shaped flange on the bottom of

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the dish-holder.

The parts being thus constructed they are intended to operate as follows: The operator fills the basket or dish-holder, the ring O serving to hold plates, &c., in position against accidental displacement and assists in properly 65 packing. The bail is then engaged with the double hook G on the lever F, and the lower end of the post or bar H is engaged in the socket I, being passed through the slot L in the bracket K. The operator now moves the 70 lever up and down, which at the opposite end raises and lowers the dish-holder in the water of the pail or receptacle, the quick reciprocations therein serving to wash the dishes, and as previously described, the dish-holder 75 is guided in its vertical movements by the vertical portions D of the bail engaging in the guideways B and by means of the rubbing-iron or guide strips E. When the dishes are sufficiently washed, the operator may de-80 press the lever F sufficient to raise the dishholder free from the water in the receptacle and it may be held in this position, so that the dishes may be drained by engaging the hook M with the eye N on the lever F, as 85 shown in dotted lines in Fig. 1. When the dishes are drained, the dish-holder may be removed, and, if desired, the lever and its fulcrum-bar. When these parts are removed, the receptacle may be used for any other pur- 90 pose, and for convenience of handling, either with or without the dish-receptacle, I arrange the handle R at one side. The bracket may be used for the handle on the opposite side.

What I claim as my invention is— A dish-washer comprising a receptacle having a bracket on its side formed with an openend tapering socket therein, a dish-holding

crate in the receptacle, free to move in a vertical direction, a lever for raising and lowering the crate, a fulcrum-bar H pivotally secured to the lever, and loosely seated in the 5 tapering socket, and means for locking the lever with its crate-carrying arm in an elevated position, substantially as described.

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

JOHN E. DURAND.

Witnesses: M. B. O'DOGHERTY, O. F. BARTHEL.