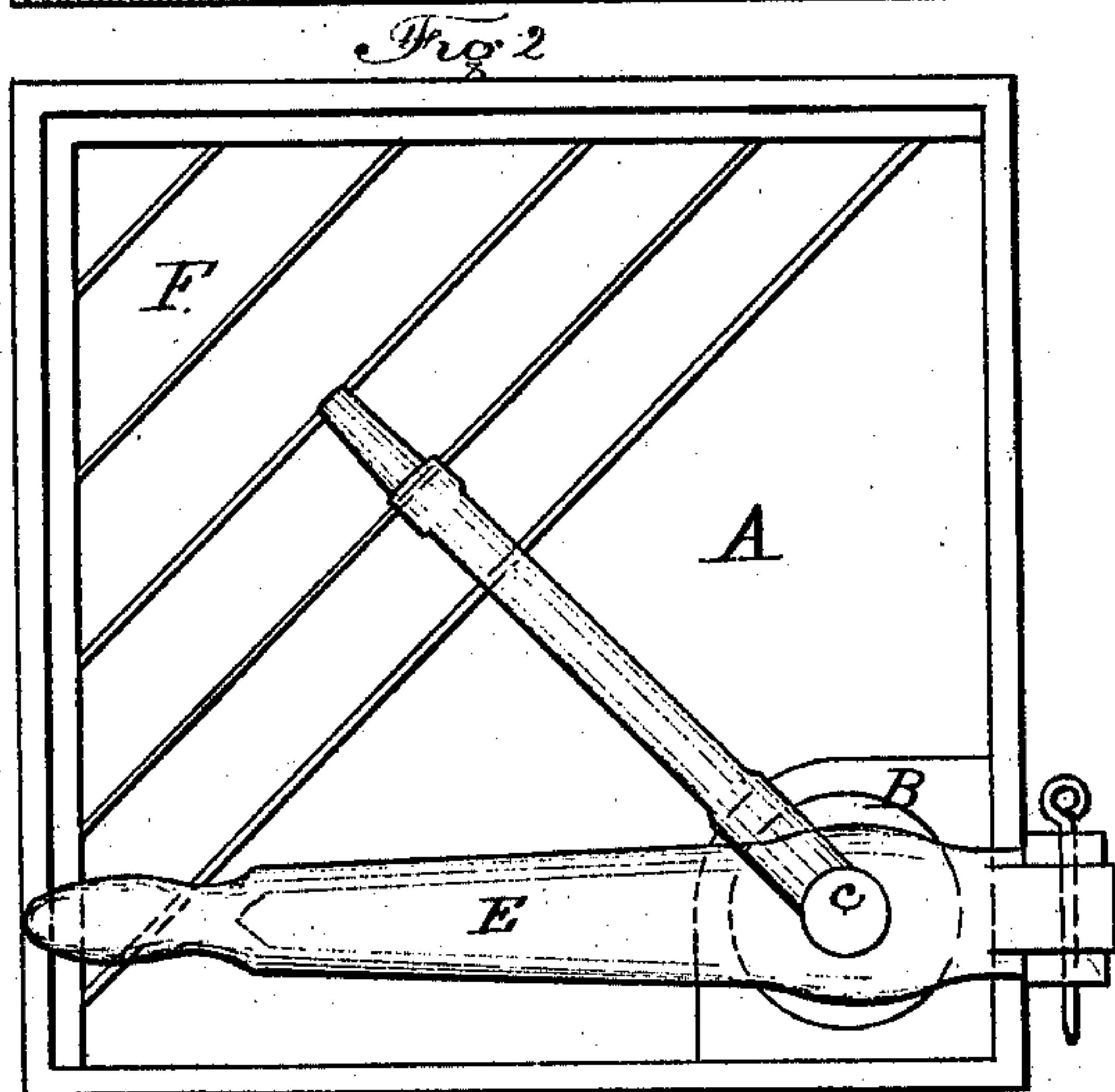
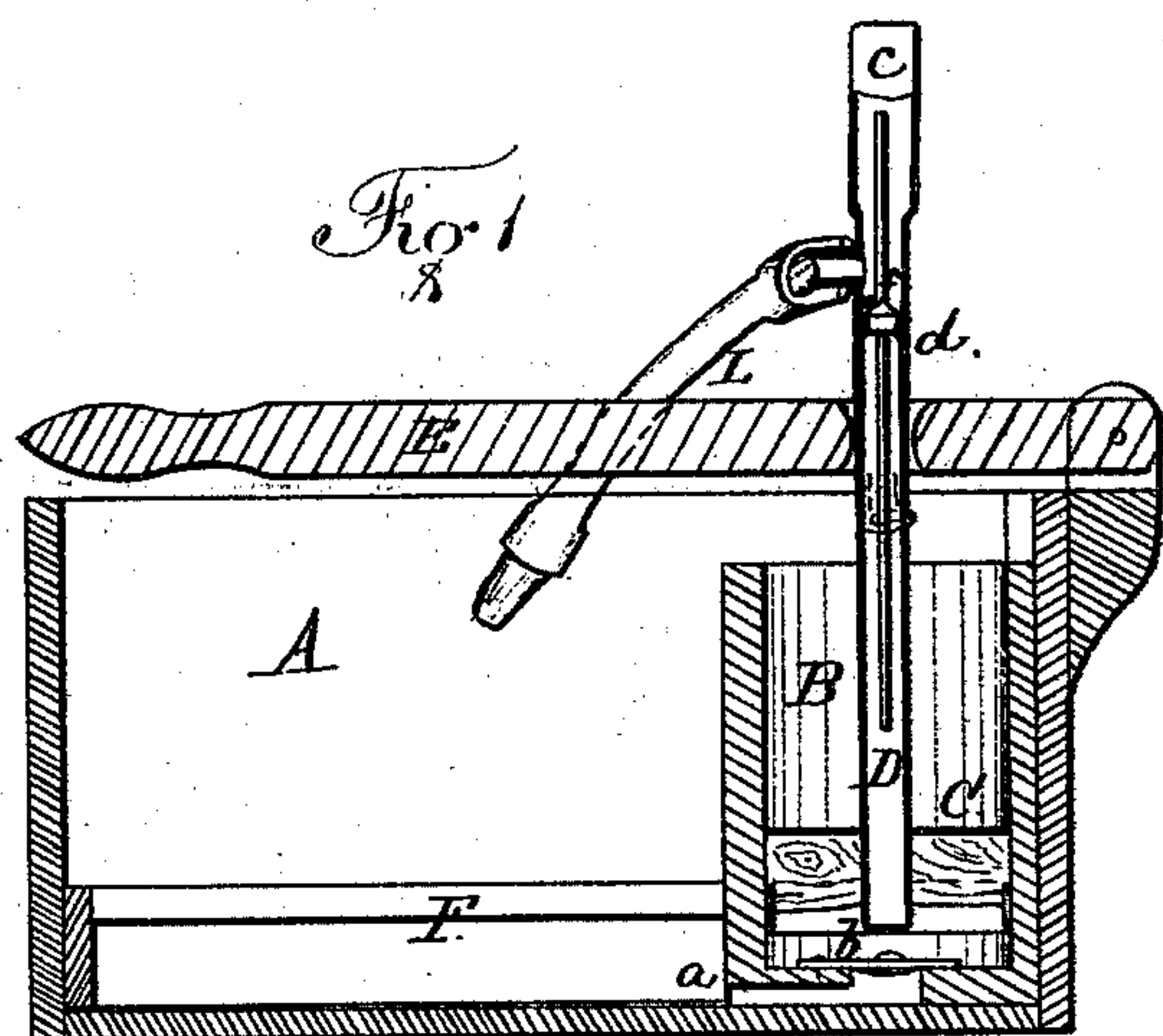


Orton & Stiles,

Dish Washer.

No. 100,657.

Patented Mar. 8, 1870.



Witnesses
M. W. Burr's
James M. Givley

Inventor
Orton & Stiles per
their att. C. B. Fowler

United States Patent Office.

MERRILL S. ORTON AND PETER B. STILES, OF GALESBURG, ILLINOIS.

Letters Patent No. 100,657, dated March 8, 1870.

IMPROVED DISH-WASHER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, MERRILL S. ORTON and PETER B. STILES, of the city of Galesburg, in the county of Knox, and State of Illinois, have invented a new and improved Dish-Washer; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a sectional view.

Figure 2 is a plan view.

Like letters in both figures of the drawings indicate like parts.

Our invention consists of a box, or other suitable receptacle, having a force-pump arranged in one corner, on the inside thereof, and a removable, triangular-shaped grate in the opposite corner, whereby dishes or other articles may be washed by placing them on the grate, and submitting them to the action of the water thrown from the pump, the box being filled sufficiently with water of a suitable temperature for supplying the pump, thus furnishing a simple and convenient method of washing dishes.

We are aware of the patent of Witherell & Witherell, December 22, 1868, in which a force-pump is used; but we construct and arrange our pump differently, so as to simplify the utensil, and thereby render it cheaper and more desirable for general use.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

A is the box, of a suitable size and depth.

B is the cylinder of the pump, arranged in one corner of the box, and secured to the sides thereof in a proper manner, and provided with apertures *a* at the bottom, and also with a valve, *b*, for regulating the admission of the water therein.

C is the plunger, to which is attached the hollow piston-rod or tube D, having a cap, *e*, screwed on to it at about *d*. The tube passes through the plunger.

In the tube is a valve, *f*, attached to an elongated rod, which valve is for the purpose of preventing the

water from going back into the cylinder after it has been pumped up, the rod causing the valve to open and close the passage of the tube uniformly.

The cap *e* has a short tube, to which is attached the hose and pipe L.

E is a handle, by which the pump is operated, the end thereof being hinged or pivoted to a plate screwed or nailed to the outside of the box, the handle having a hole by which it is slipped on over the piston-rod or tube, and then fastened thereto in any suitable manner.

F is the removable grate, composed of two plates attached at right angles, with bars across at the top, each plate being of the length of the side of the box, on the inside thereof, so that the grate will fit snugly in the corner diagonally opposite to the cylinder of the pump.

The grate can be conveniently removed at any time, for the purpose of cleaning out the box, when desired.

Operation.

The box being filled sufficiently with water, the dishes are placed on the grate, and the water pumped on to them, the water passing through the apertures into the cylinder, and thence into the tube, whence it is discharged onto the dishes, as aforesaid.

Having thus fully described our invention,

What we claim therein as new, and desire to secure by Letters Patent, is—

In dish-washers, the arrangement of the pump B, with its valves *b* *f*, plunger D, discharge-pipe L, cap *e*, and handle E, in combination with the box A and grate F, all arranged as shown and described.

As evidence that we claim the foregoing as our invention, we have hereunto set our hands in the presence of two witnesses.

MERRILL S. ORTON.
PETER B. STILES.

Witnesses:

CHARLES STYER,
SAML. N. GROSE.