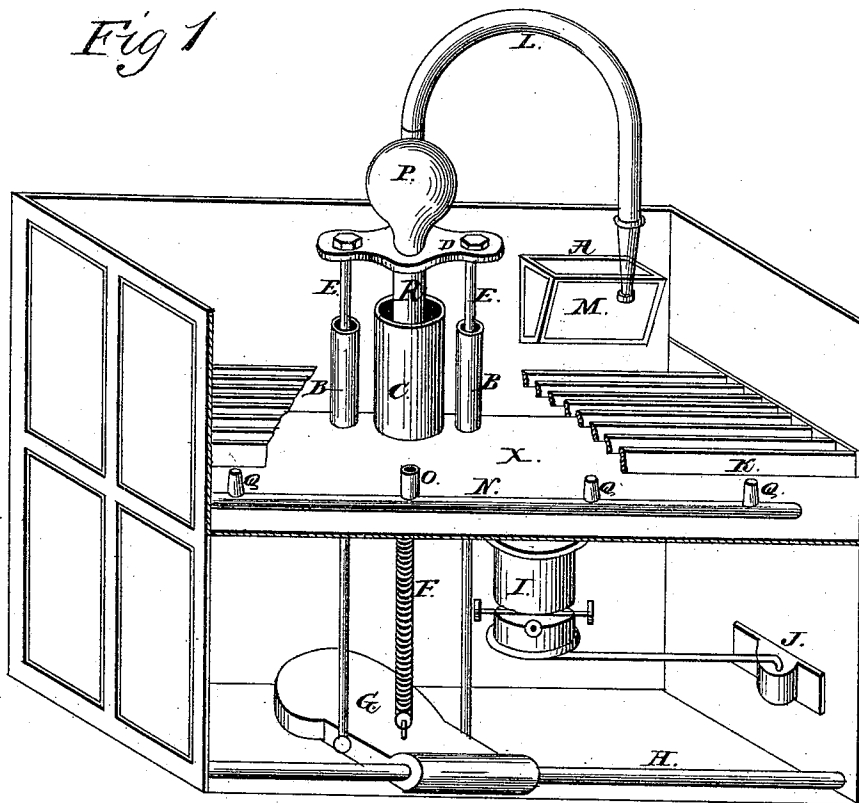


W. N. COSGROVE.
DISH AND BOTTLE WASHER.

No. 179,274.

Patented June 27, 1876.

Fig 1



Witnesses:

C. N. Dames.
H. Chambers.

Inventor:

William N. Cosgrove

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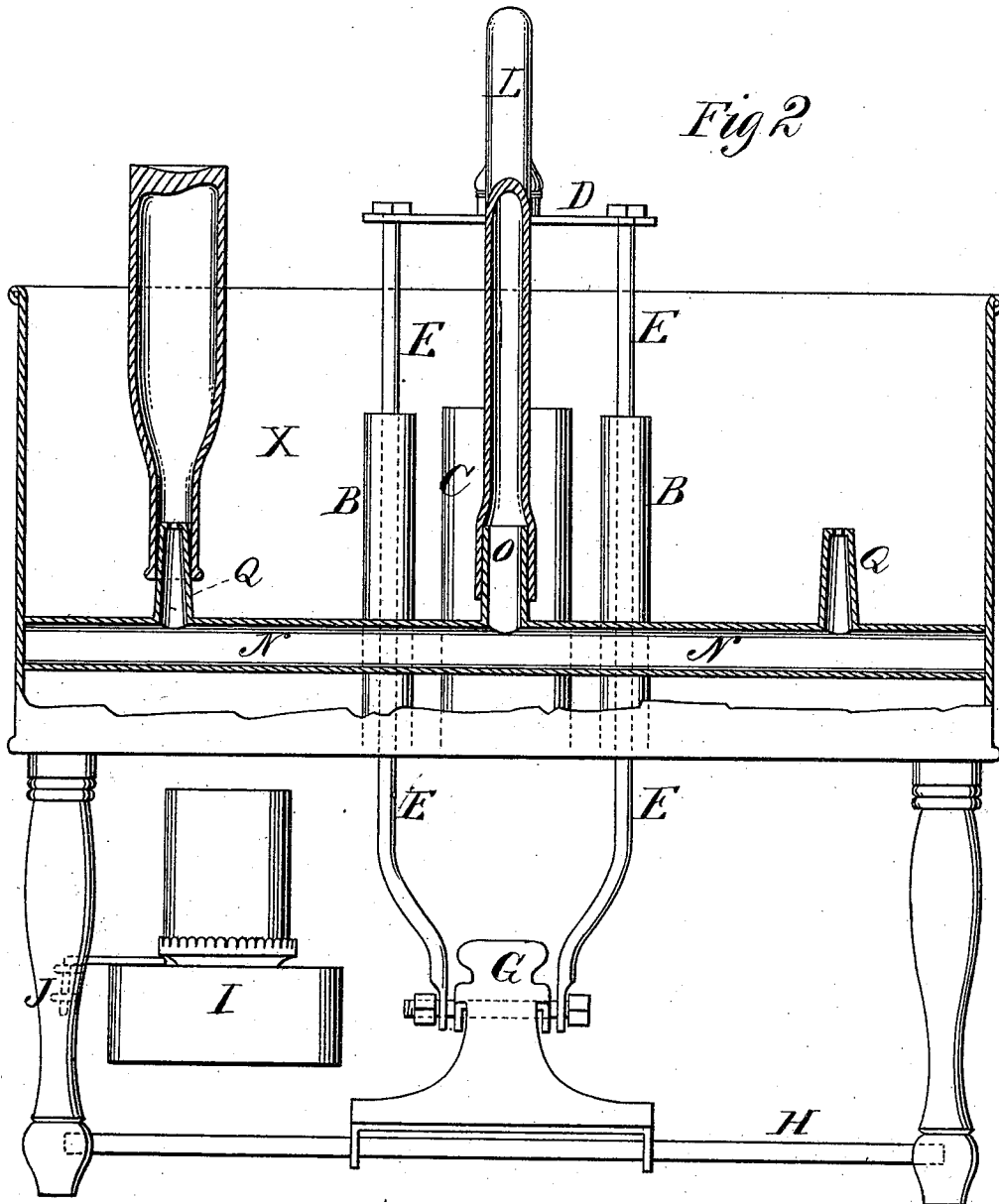


Fig 2

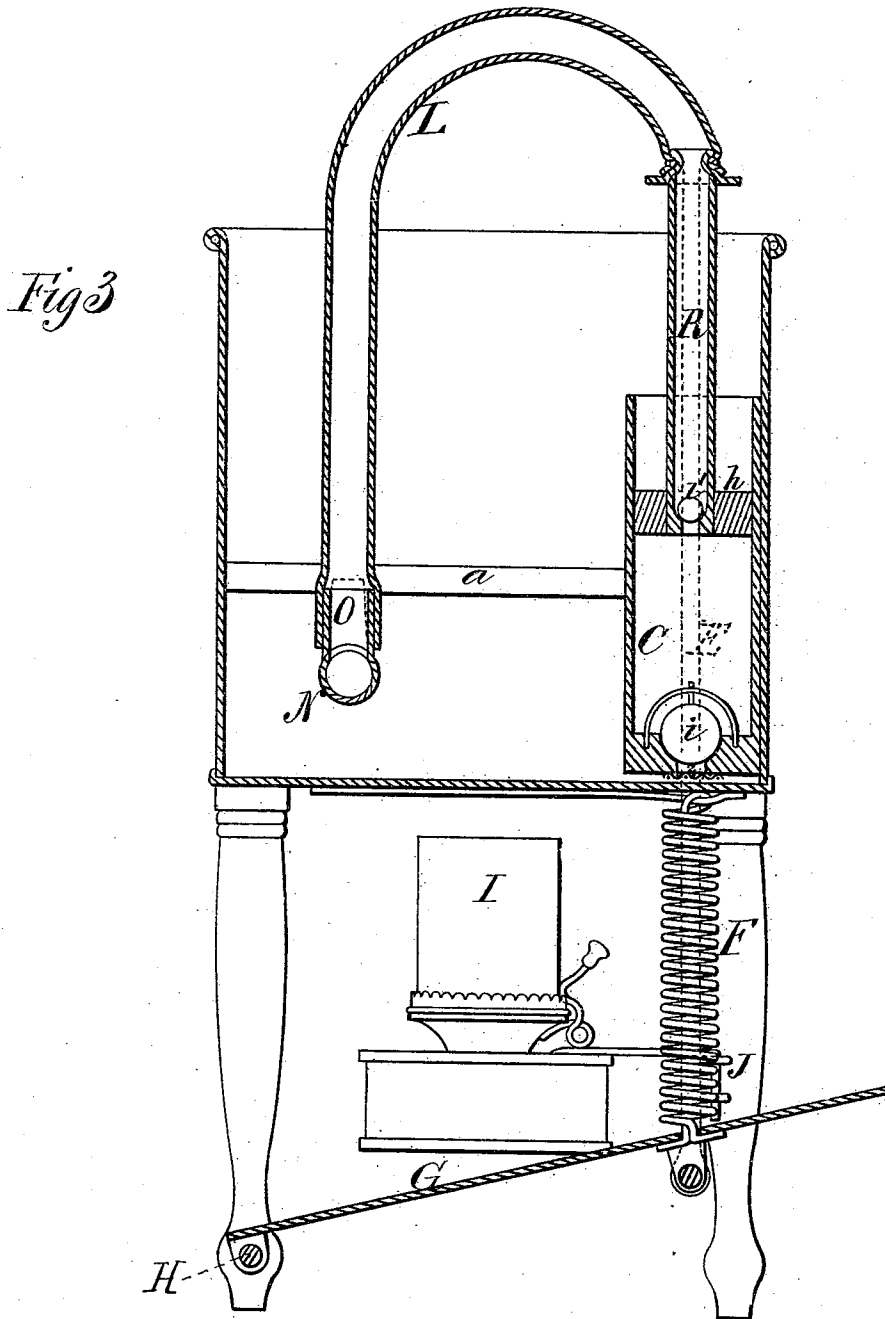
WITNESSES
Villette Anderson.
Francis J. Massi

INVENTOR
W. N. Cosgrove,
by *E. W. Anderson.*
ATTORNEY

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WITNESSES

Villette Anderson.
Francis J. Masi

INVENTOR

INVENTOR
W. N. Cosgrove,
by E. W. Anderson,
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM N. COSGROVE, OF FARIBAULT, MINNESOTA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JNO. S. JORDAN, OF SAME PLACE.

IMPROVEMENT IN DISH AND BOTTLE WASHERS.

Specification forming part of Letters Patent No. **179,274**, dated June 27, 1876; application filed February 14, 1876.

To all whom it may concern:

Be it known that I, WILLIAM N. COSGROVE, of Faribault, in the county of Rice and State of Minnesota, have invented certain new and useful Improvements in Dish and Bottle Washers, of which the following is a specification:

Figure 1 of the drawings is a perspective view of the interior of my improved washing apparatus. Fig. 2 is a longitudinal vertical section of the same, and Fig. 3 is a central vertical transverse section of the same.

This invention has relation to improvements in apparatus for cleaning dishes, plates, and other like articles.

The object of the invention is to expedite and facilitate such cleansing, and by the construction of the operative devices to diminish the cost of the same.

To this end the nature of the invention consists in the arrangement and novel construction of the various devices used, as will be hereinafter more fully explained.

In the annexed drawings, the letter X designates a rectangular metallic sink, which is supported at a suitable distance from the floor by means of a stand. This sink is provided with two upright spaced tubes, B, between which is arranged a pump, consisting of a cylinder, C, and a hollow piston-rod, R, having upon its upper end a bulb or condenser, P, and upon its lower end a head, h. Cylinder C is provided at its lower end with a strainer, z, for preventing foreign matter from getting into the same, and with a ball-and-socket valve, i, opening upward, and the head h with a similar valve, v, opening upward into the hollow rod R. D indicates a cross-head, rigidly secured to the upper end of the piston-rod, and connected by means of two rods, E, passing downward through tubes B in the sink to a vertically-vibrating treadle, G, situated under the sink, and pivoted or hinged in any suitable manner to a rod, H, connecting two of the legs or sides of the stand.

Bulb P is provided with a flexible hose-pipe, L, having a removable nozzle, A, through

which the water will be discharged, when the treadle is operated upon all the sides of the dishes, arranged in a removable rack-tray, K, supported by ledges a in the sink, at a suitable distance above the water. Tubes B, during this operation, not only serve as guides for rods E, but also prevent the contents of the sink from escaping therefrom.

In order to raise the treadle automatically, and thus give the upstroke to the piston-rod, I employ a sufficiently strong spring, F, secured at one end to the treadle, and at the other to the sink, which, by its contractions, after the downstroke, produces the desired effect. The water in the sink will be raised to a suitable temperature by means of a lamp, I, suspended in a horizontally-vibrating bracket, which is pivoted at J to the frame.

In practice the side of the sink will be provided with a rack, M, in which knives and forks will be placed, and subjected to the action of water thrown thereon by the pump. N represents a hollow metallic tube, extending, preferably, from end to end of the sink, and provided at or near the middle of its length with a nipple, O. At each side of the nipple are arranged, at a suitable distance apart, a number of nozzles, Q, adapted to be received within the neck of an inverted bottle.

This attachment is used as follows: The nozzle A having been detached from the hose L, and the rack K removed from the sink, the free end of the said hose is coupled in any suitable manner to nipple O. The treadle is then operated, causing water to be discharged into the distributing-pipe N, and delivered through nozzles Q into the interior of the bottles arranged thereon, with the effect of speedily cleansing them.

The water and the impurities removed from the bottles will be discharged out of the latter at their necks, the nozzles not being designed to completely fill the same.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a dish-washing machine, the sink X, having upright tubes B, the cylinder C, and piston-rod R, having cross-head D, the connect-

ing-rods E, passing downward through the said tubes, the treadle G, and spring F, substantially as specified.

2. In combination with a sink having a forcing-pump, with flexible hose L, the distributing-pipe N, provided with a nipple, O, for the reception of the said hose and nozzles Q, substantially as specified.

3. The sink X, having ledges *a*, supporting a removable dish-rack, and a pipe, N, with nipple O and nozzles Q, substantially as specified.

WILLIAM N. COSGROVE.

Witnesses:

JNO. S. JORDAN,
F. P. PARSONS.