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C. EULER.

Improvement in Bottle Washing Machines.

No. 118,917.

Patented Sep. 12, 1871.

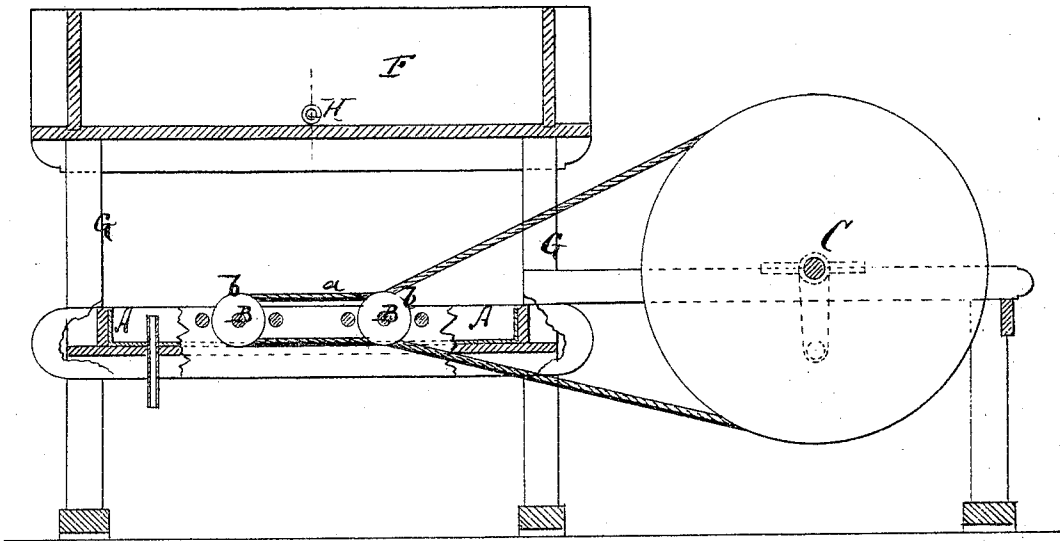


Fig. 2.

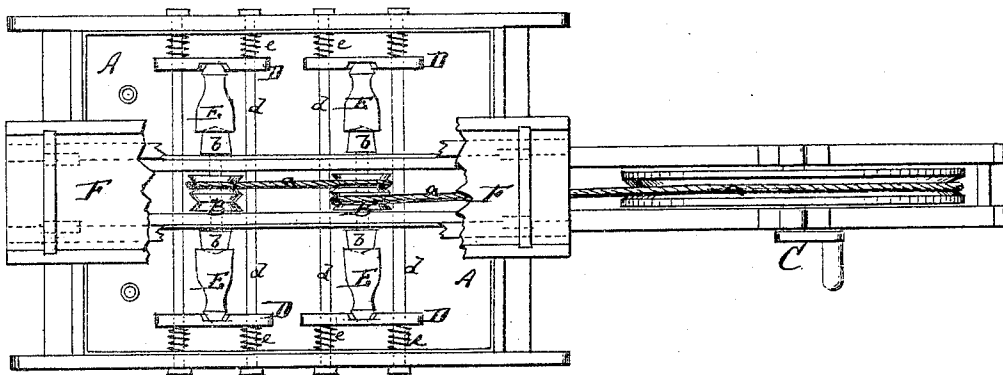
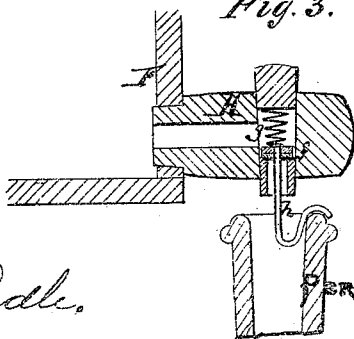


Fig. 3.

Witnesses:

E. Wolff.
Francis McAule.



Inventor:

C. Euler
Munnell
Attorneys.

UNITED STATES PATENT OFFICE.

CONRAD EULER, OF EVANSVILLE, INDIANA.

IMPROVEMENT IN BOTTLE-WASHING MACHINES.

Specification forming part of Letters Patent No. 118,917, dated September 12, 1871.

To all whom it may concern:

Be it known that I, CONRAD EULER, of Evansville, in the county of Vanderburg and State of Indiana, have invented a new and Improved Bottle-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side elevation, partly in section, of my improved bottle-washing machine. Fig. 2 is a plan or top view of the same. Fig. 3 is a detail vertical section of the discharge-faucet used on the upper reservoir.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved machine for washing bottles; and consists in the arrangement of certain holding and rotating devices in a vessel designed to contain the cleansing or rinsing liquid, as hereinafter described.

A in the drawing represents a box or vessel, open on top, of rectangular or other form, and lined with sheet metal, or otherwise made watertight. Through one side of the vessel are fitted a suitable number of horizontal spindles, B B, which receive rotary motion by a band, *a*, or gearing from a suitable driving-shaft, C, or equivalent mechanism. Within the box or vessel each spindle B is provided with a cone or plug, *b*, of such shape as to fit conveniently the cavities usually provided at the bases of bottles. These plugs may be removable, so that such of different size or shape may be applied to fit the several kinds of bottles. D D are plates sliding on cross-bars *d d*, that are firmly secured within the box A. Springs *e* serve to force the plates D toward the plugs. The bottles E to be washed

are first dipped into the water contained within the box A, and are thereby about half filled. They are then placed with their bases against the plugs *b*, and with their mouths against the plates D, as shown, the springs *e* holding them properly in position. The plates D are perforated in line with the spindles, so that the mouths of the bottles will not be closed by them. The spindles being revolved, the bottles will also be turned by the friction of the plugs; and will be thoroughly rinsed and cleansed by the water within and without. The boxes A may be arranged in pairs, side by side, so that both ends of every spindle are utilized, as shown. F is a fresh-water reservoir, preferably supported above the box A on a frame, G. It has a discharge-faucet or faucets, H. Within the faucet H is a valve, *f*, which is held on its seat by a spring, *g*. From the valve is suspended, through the discharge-opening of the faucet, a crooked wire or rod, *h*.

Each bottle, after having been rinsed, as above stated, is or may be held against the wire *h* so as to raise the valve *f* and thereby open the faucet, letting clean water flow directly into the bottle below, to complete the cleaning process. The spring *g* will close the valve immediately after the withdrawal of the bottle from contact with the wire.

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

The spindles B, plugs *b b*, sliding plates D D, rods *d d*, and springs *e e*, arranged in the box or vessel A, as shown and described.

CONRAD EULER.

Witnesses:

A. T. WHITTLESEY,
HENRY W. BIPPUS,
AUG. BRAND.