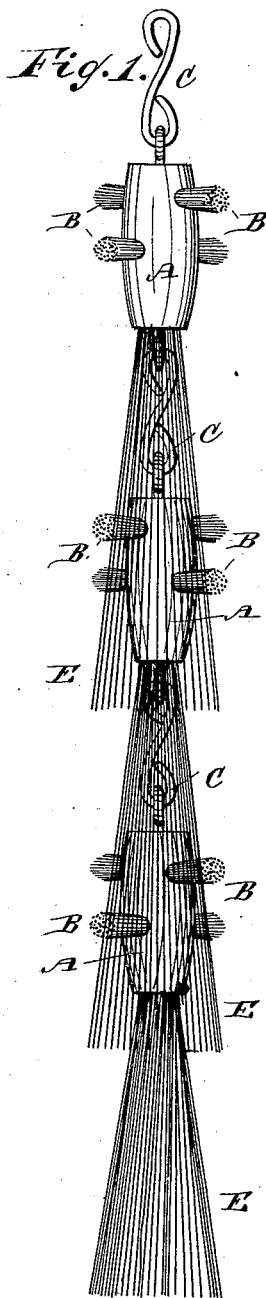
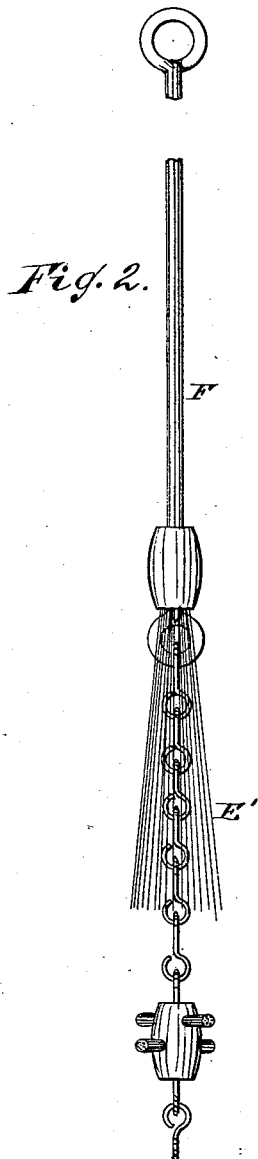


(No Model.)

C. VONDERLINDEN.
BOTTLE CLEANER.

No. 261,106.

Patented July 11, 1882.



WITNESSES:

Theo. G. Foster.
C. Sedgwick

INVENTOR:

C. Vonderlinden
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES VONDERLINDEN, OF RHINEBECK, NEW YORK, ASSIGNOR TO
HIMSELF AND LEWIS H. LIVINGSTON, JR., OF SAME PLACE.

BOTTLE-CLEANER.

SPECIFICATION forming part of Letters Patent No. 261,106, dated July 11, 1882.

Application filed April 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES VONDERLINDEN, of Rhinebeck, in the county of Dutchess and State of New York, have invented an Improved Bottle-Cleaner, of which the following is a full, clear, and exact description.

The object of my invention is to facilitate the cleaning of bottles.

The invention, which is an improvement on the device for which Letters Patent No. 251,323 were issued to me on the 20th day of December, 1881, consists in a series of metal balls or blocks flexibly connected with each other and provided with bristles projecting from the sides and with bristles projecting from the ends.

The invention also consists in a rod to which the upper end of the chain of balls is attached, which rod has bristles projecting from the lower end.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal elevation of a part of my improved bottle-cleaner, and Fig. 2 is a longitudinal view of the end of the handle-rod.

The metal balls or blocks A are provided with a series of brushes, B B, of bristles or wire, and a series of these balls are connected by links C, or the balls or blocks are attached at certain distances from each other on a cord or equivalent device.

A rod, F, provided at its lower end with projecting bristles E', is attached to one end of the chain of balls for inserting and withdrawing this chain of balls into and from the bottle.

Bristles E project from the lower ends of the balls or blocks A, these bristles projecting over the next lower balls or blocks, as shown.

The balls or blocks are made larger or smaller, as may be desired, and the brushes B

may be replaced by bristles projecting from the ball or block at all sides, so that the blocks or balls will have the appearance of a chest-nut-burr.

The chain of balls or blocks is passed into the bottle and the cleansing-fluid is poured into the bottle. The same is then shaken, and the brushes B and the bristles E, which are thus thrown about in the bottle, clean the inner surfaces of the same, the long bristles E passing into the recessed parts of the bottle—for instance, those parts between the sides and the inner raised portion of the bottom—which recessed parts are very difficult to clean by means of shot and the ordinary devices used heretofore.

The chain of balls may be made longer or shorter, and the balls may be separated greater or less distances, as may be required.

This device can also be used to clean barrels and casks, and, if desired, the bristles E can be provided at both ends of the balls or blocks.

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

1. A device for cleaning bottles, made substantially as herein shown and described, and consisting of a series of balls or blocks flexibly united with each other, and provided with bristles projecting from the sides and with bristles projecting from the ends, as set forth.

2. The combination, with the balls A, flexibly connected with each other and provided with bristles B and E, of the rod F, attached to one end of the chain of balls A, and the bristles E', projecting from the lower end of this rod, substantially as herein shown and described, and for the purpose set forth.

CHARLES VONDERLINDEN.

Witnesses:

GEO. ESSELSTYN,
PETR. J. MENDEL.