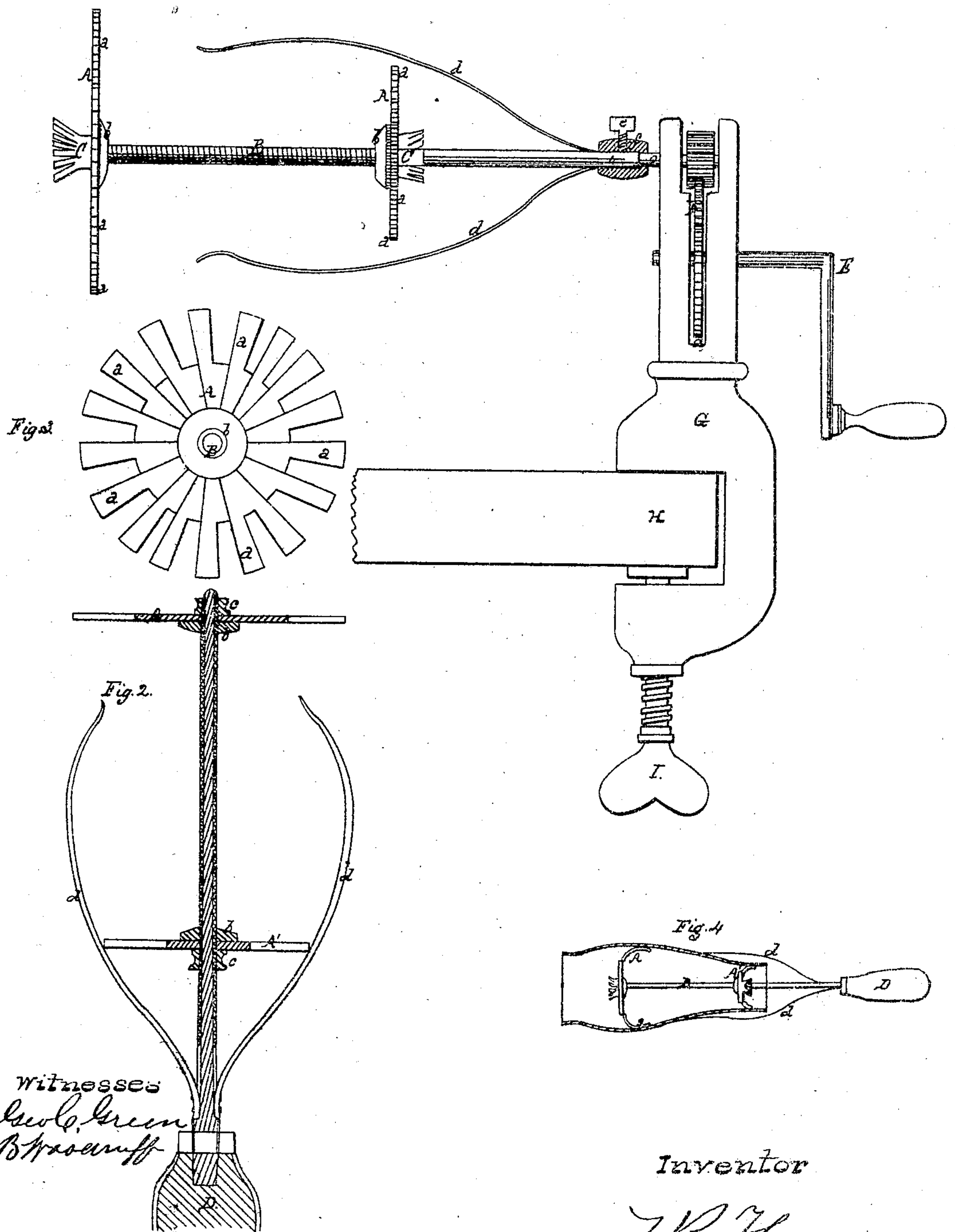


J. R. Hamilton.
 Lamp-Chimney Cleaner.
 N^o 73324 Patented Jan. 14, 1868.



Witnesses
 Geo. Green
 J. B. W. W. W.

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JONATHAN R. HAMILTON, OF PORTLAND, OREGON.

Letters Patent No. 73,324, dated January 14, 1868.

IMPROVEMENT IN LAMP-CHIMNEY CLEANERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JONATHAN R. HAMILTON, of Portland, in the county of Multnomah, State of Oregon, have invented a certain new and useful Apparatus for Cleaning Vials, Bottles, Lamp-Chimneys, or other vessels which have small openings; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side view of the apparatus, and its attachment to gear-mechanism for operating it, and the manner of securing it to the top of a table for the purpose.

Figure 2 shows a vertical section through the same secured to a handle, (broken off.)

Figure 3 shows a flat view of one of the wipers or rubbers to act upon the inside surface of the vessel.

Figure 4 is a sectional view of the wiper as applied for cleaning a lamp-chimney.

The object of my invention is to facilitate the cleaning of vials, bottles, lamp-chimneys, or other articles having small openings, with more safety than can be done by the ordinary fixtures, or any method known or used; and it consists in the mode of constructing and arranging wipers, made of India rubber or other suitable material, so that they may be adjustable to any length or size of the articles to be cleansed, the same being so fitted to the socket of a handle that they may be used by hand, when desired, and also to be attached to gear-mechanism, so that the wipers can be rotated briskly by turning a crank, the whole being so constructed that it can be instantly secured to the edge of a common table, so that the wipers may be rotated either vertically or horizontally, as may be most desirable for the various articles for which it may be used.

To enable others to make and use my invention, I will describe it more fully, referring to the drawings, and to the letters marked thereon.

I make my scrubbers or wipers, A A', of India rubber, or any other suitable material, in a circular form, the outer portion of the disk being cut into slips or strips, *a a a a*, the centre being secured to a rod or shaft, B, by pressing it between a flange, *b*, and a screw-nut, *c*, on which end wipers C C are secured, they being made of India-rubber tubes, so constructed that they will spread out and fit into the corners of the bottom of vials, &c., the shaft B being provided with a screw, or other suitable means, by which the distance between the wipers A A' may be adjusted to any desired length. The shaft B may be fitted into a handle, D, so that it can be used by hand, or it may be fitted into a socket, *f*, and secured by a thumb-screw, *e*, which is connected to the pinion-shaft *g*, which is mounted, with the driving-wheel F and crank E, on a frame or standard, G, which is so constructed that it can be secured to the leaf or top of a table, H, by the clamp-screw I, where it can be operated with facility, for cleaning vials, lamp-chimneys, or any article of cylindrical ware. For cleaning vials, lamp-chimneys, or similar small articles, the outside may be acted on at the same time by the spring-fingers *d d*, they passing over on the outside, as seen in fig. 4. They may be covered with any suitable substance for effecting the purpose.

The invention, as shown and above described, is applicable to small cylindrical vessels of glass and earthenware; but it will readily be seen that the principle upon which the wiper is constructed is applicable to cleaning bottles, demijohns, carboys, casks, ale and beer-barrels, or any vessel which has a small opening, as the rod B may be of such dimensions, and the wipers A A' so constructed, that they can easily be inserted, and then expanded, so as to be made to act on all and every part of the inner surface.

It is a well-known fact that thousands of vials and bottles are constantly thrown into disuse, for the reason that there has been no efficient apparatus or mode of cleaning them, or of removing the precipitate of many articles for which they are used, and it will readily be seen that by my invention they can generally be thoroughly scrubbed out on the inside.

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

1. The scrubbers or wipers A A' and C C, when constructed and applied so as to operate substantially in the manner as and for the purposes herein set forth.

2. I claim the wiper, as constructed, in combination with the gear-mechanism for operating the same, as specified.

J. R. HAMILTON.

Witnesses:

GEO. C. GREENE,

J. B. WOODRUFF.