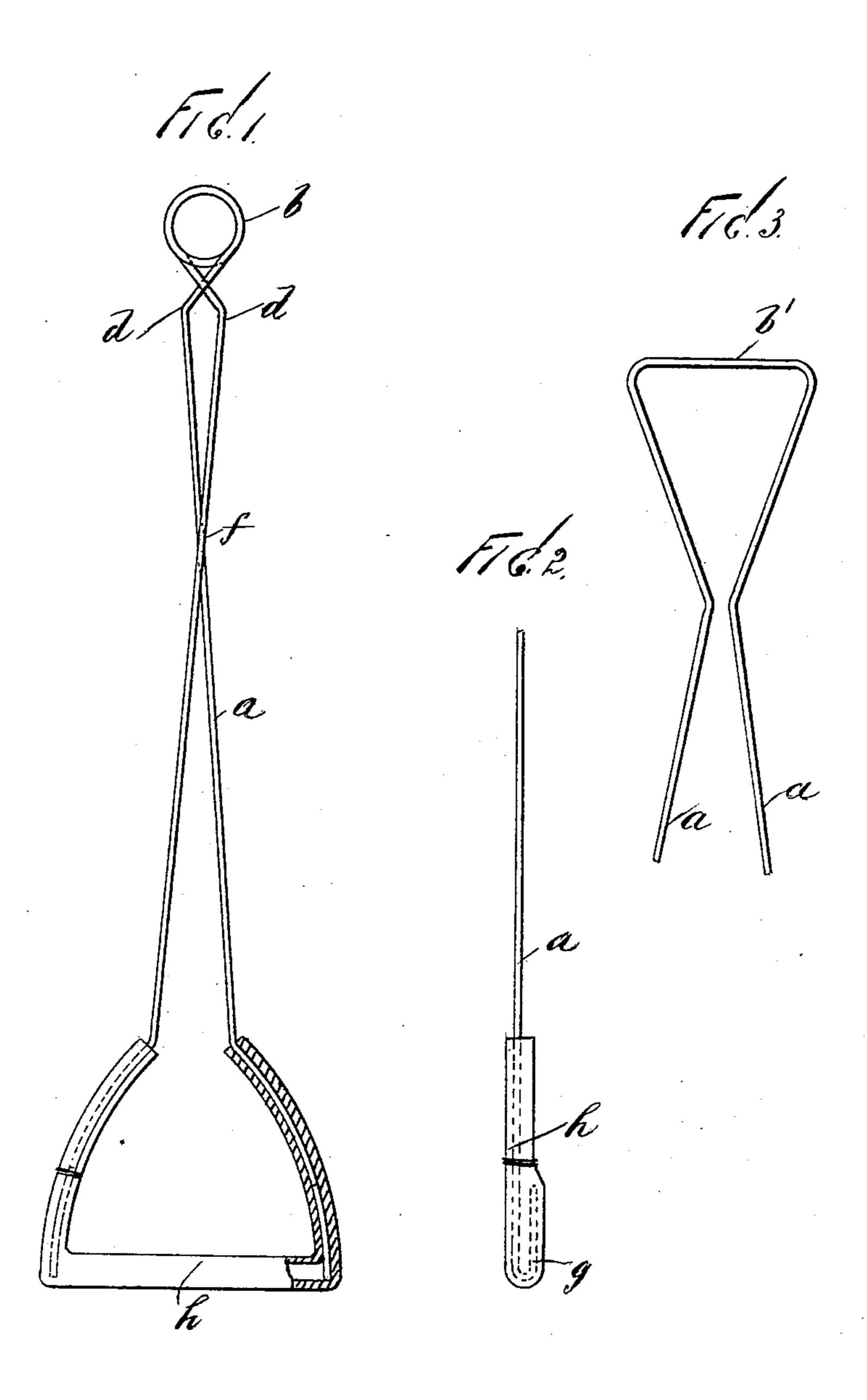
(No Model.)

L. J. WIDNESS. CLEANER.

No. 602,592.

Patented Apr. 19, 1898.



WITNESSES: She Buckler,

b. Gersto

Jawrence J. Widness.

Colgan Saltho.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LAWRENCE J. WIDNESS, OF BROOKLYN, NEW YORK.

CLEANER.

SPECIFICATION forming part of Letters Patent No. 602,592, dated April 19, 1898.

Application filed August 23, 1897. Serial No. 649, 232. (No model.)

To all whom it may concern:

Be it known that I, LAWRENCE J. WIDNESS, a citizen of the United States, residing at Brooklyn, in the county of Kings and State 5 of New York, have invented certain new and useful Improvements in Lamp-Chimney or Bottle Cleaners, of which the following is a full and complete specification, such as will enable those skilled in the art to which it ap-

10 pertains to make and use the same.

This invention relates to lamp-chimney or bottle cleaners, and has for its object the production of an implement of the above-described class which can be readily inserted 15 in the small neck-aperture of the lamp-chimney or bottle and which when within the same will automatically extend itself so as to come into intimate contact with the interior thereof, a further object being to pro-20 vide an implement, as above, which can be equipped with suitable material to clean and polish the bottle or lamp.

The invention consists in the novel features of construction hereinafter set forth 25 and described, and more particularly pointed

out in the claim hereto appended.

Referring to the drawings, Figure 1 is a view of my improved cleaner, partly in section; Fig. 2, a side view of the lower part 30 thereof, and Fig. 3 is a modification of its upper portion.

Like letters of reference designate like

parts throughout the several views.

In the drawings, the letter a represents the 35 shank of the cleaner, preferably made of spring-steel or other suitable material, which is twisted at its central point into a spring, as b, and then angled, as at d, to an extent which will readily admit of its being inserted 40 in the neck of an ordinary bottle. The free ends of the shank a are extended and crossed, as at f, so that the tendency of the lower extremities thereof will be to separate. These lower extremities are shaped, preferably, so 45 as to come in contact with the nether portion | of the bottle and are looped at their lower extremities, as shown in Fig. 2 at g, so as not to tear or entangle the material used in cleaning the bottle, which is attached to the lower 50 extremities of said shank. This swab is preferably composed of a tubular ribbon h, which is susceptible of receiving the free ends of said

| shank and which has a tendency to cling thereto, although it is preferable to attach the same by means of a string drawn tightly 55

above the looped end g of the shank a.

In operation my improved cleaner is used as follows: The extreme ends of the shank aare brought together sufficiently to enable them to be inserted within the neck of the 60 bottle or other article, the lower portion of the ribbon h forming a loop to facilitate said entrance.

When the implement is within the bottle, the spring b extends the lower ends of the 65 shank a till they come in contact with the interior thereof, and the bottle may be readily cleaned, including the bottom thereof, by merely twisting the cleaner and drawing it gradually out of the same.

The modification shown in Fig. 3 shows a modification in the formation of the spring b', which is more simple in construction and

quite as efficient in operation.

The operation of a device equipped with 75 the spring is idential to that hereinbefore described.

It is to be observed that there are many minor details of construction which come within the scope of my invention and which 80 it is not my intention to exclude therefrom.

Having fully described my invention, what I claim, and desire to have protected by Let-

ters Patent, is—

In a bottle-cleaner, the combination with 85 a shank formed centrally into a ring and angled so as to cross between said ring and the ends of the shank, of a tubular swab removably attached to the ends of said shank, said shank being outwardly curved whereby the 90 swab will be brought into intimate contact with every portion of the bottle, and each end of the shank being doubled upon itself whereby said swab is securely retained in position, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 21st

day of August, 1897.

LAWRENCE J. WIDNESS.

Witnesses:

C. Gerst, M. A. Knowles.