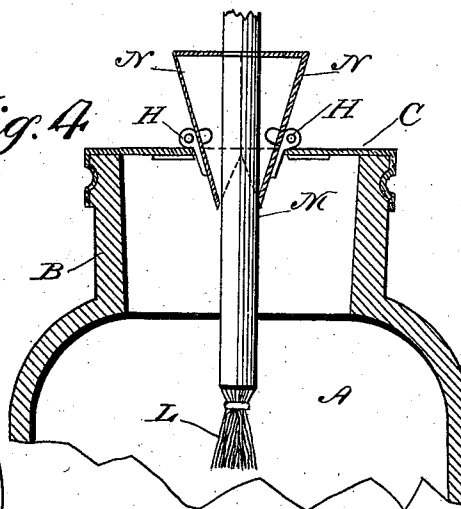
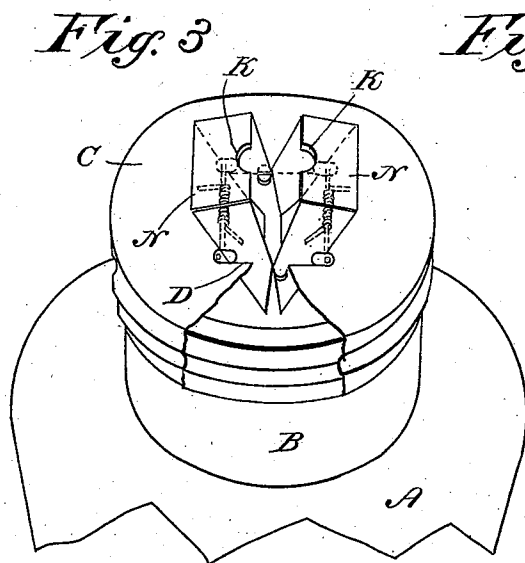
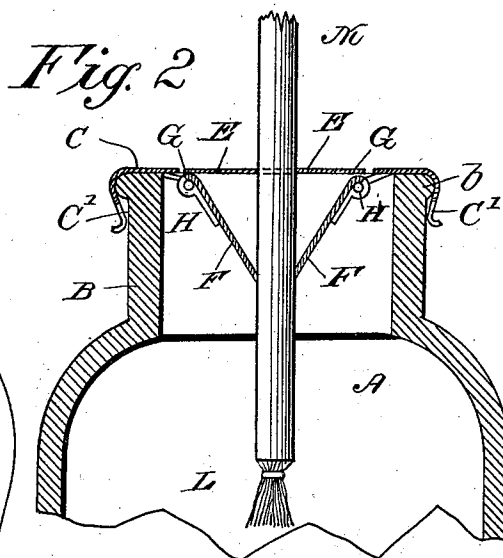
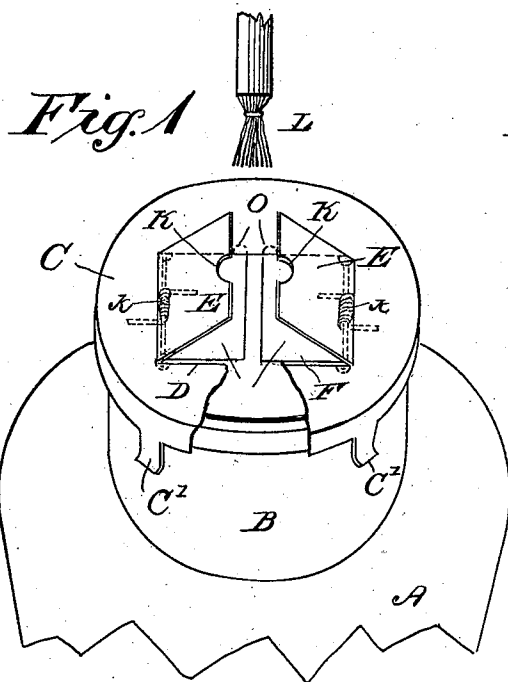


(No Model.)

D. T. ELLIS.
MUCILAGE BOTTLE.

No. 557,118.

Patented Mar. 31, 1896.



WITNESSES:

M. B. Harris
C. G. Gunt

INVENTOR

David T. Ellis

BY
Edgar Tate

ATTORNEYS

UNITED STATES PATENT OFFICE.

DAVID T. ELLIS, OF SPRINGFIELD, MASSACHUSETTS.

MUCILAGE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 557,118, dated March 31, 1896.

Application filed August 20, 1895. Serial No. 559,913. (No model.)

To all whom it may concern:

Be it known that I, DAVID T. ELLIS, a citizen of the United States, and a resident of Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Mucilage-Bottles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to mucilage-bottles, and the object thereof is to provide an improved device of this class having a removable cover, in which is hinged spring-operated doors or equivalent devices, through which the brush is inserted, and by means of which surplus mucilage is removed from the brush when the latter is withdrawn for use; and with this and other objects in view the invention consists in the construction, combination and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a perspective view of the upper part of a bottle provided with my improvement; Fig. 2, a transverse vertical section thereof; Fig. 3, a view similar to that of Fig. 1, showing a modified form of construction; and Fig. 4, a transverse vertical section thereof.

In the practice of my invention I employ a bottle A, of any desired form, provided with a neck B, having at the upper end thereof an annular body or flange b, and I also provide a removable cap or cover C, having downwardly-directed clips or spring-hooks C', by means of which the cap or cover is connected with the neck of the bottle.

Formed in the top of the cap or cover C is a square or oblong opening D, at the opposite ends of which are hinged doors, consisting of the separate plates E and F, which are united at G and secured to or connected with a rod H, which is secured at each end to the cap or cover, and mounted on each of the rods H is a wire spring K, (shown in dotted lines in Fig. 1,) one end of which bears upon the part F of the door and the other end of which bears upon the under side of the cap or cover.

The plates E of the door are provided with semicircular notches or recesses K, and in the normal position of the parts when the brush is removed the plates or parts F of the door are flush with the cap or cover, as shown in Fig. 1, but when the brush is inserted the plates or parts F are depressed, as shown in Fig. 2, and the handle of the brush rests in the semicircular cavities or recesses K in the plates E. The operation of this form of construction will be readily understood. When the brush L, the handle of which is shown at M, is withdrawn, the surplus mucilage is removed from the brush by the plates F, and the doors assume the position shown in Fig. 1, thus closing the opening D. When the brush is again inserted, the plates E and F assume the position shown in Fig. 2, and the opening D is closed by the plates E.

In the construction shown in Figs. 3 and 4 the cap C is secured in place by means of a screw-threaded flange or rim, which operates in connection with a screw-thread formed on the neck B, and in place of the doors, consisting of the plates E and F, I employ triangular-shaped scoops or boxes N, the fronts of which are open and the bases of which are directed upward and the ends thereof provided with the semicircular notches or recesses. These scoops or boxes are hinged to the sides of the opening D, in the same manner as the plates E and F, by means of the rods H, on each of which is mounted a wire spring K, one end of which bears upon the outer side of the corresponding box or scoop and the other end of which bears upon the under side of the top or cover, and the operation of these springs normally is to hold the boxes or scoops in the position shown in Fig. 3, in which the upper ends or bases thereof are separated and the lower pointed ends, which are directed into the neck of the bottle, are brought together.

When the brush is inserted, the parts assume the position shown in Fig. 4, in which the bases are brought together and the semicircular notches or recesses K surround the handle M of the brush. When the brush is withdrawn, the inner pointed ends of the boxes or scoops remove the surplus mucilage from the brush and the parts assume the position shown in Fig. 3, and when the brush is

again inserted the inner ends of the boxes or scoops are separated and the upper ends thereof are again brought together, as shown in Fig. 4.

5 It will thus be seen that I accomplish the object of my invention by means of devices which are simple in construction and operation and well adapted to accomplish the result for which they are intended.

10 In the construction shown in Fig. 1 the adjacent edges of the plates F are provided with outwardly-directed points or projections O, by means of which said plates are held in the position shown in Fig. 1 when the brush is
15 removed, said points or projections striking against the under surface of the cap or cover, as will be readily understood.

My invention is not limited to the exact form, construction, and arrangement of the
20 parts shown and described, and I therefore reserve the right to make all such alterations therein as fairly come within the scope of the invention.

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

1. A mucilage-bottle, provided with a cap or cover, in which is formed an oblong or square opening, said opening being provided
30 with hinged devices at the opposite sides thereof consisting of two parts, the upper part being provided with notches or recesses adapted to inclose the handle of the brush, and the lower part being projected into the
35 bottle and adapted to be separated by the brush or the handle thereof, substantially as shown and described.

2. A mucilage-bottle, the neck of which is provided with a removable cap or cover in
40 which is formed an oblong or square opening, to the opposite sides of which are hinged doors or closing devices comprising two parts or plates, which extend inwardly and obliquely from the hinged connections, the upper plates
45 being provided with semicircular notches or recesses adapted to inclose the handle of

the brush, substantially as shown and described.

3. A mucilage-bottle, the neck of which is provided with a removable cap or cover in
50 which is formed an oblong or square opening, to the opposite sides of which are hinged doors or closing devices comprising two parts or plates, which extend inwardly and obliquely from the hinged connections, the upper plates
55 being provided with semicircular notches or recesses adapted to inclose the handle of the brush, and the arrangement being such that when the brush is inserted, the upper plates close the opening in the cap and when the
60 brush is withdrawn the lower plates close the opening in the cap, substantially as shown and described.

4. A mucilage-bottle, the neck of which is provided with a removable cap or cover in
65 which is formed an oblong or square opening, to the opposite sides of which are hinged doors or closing devices comprising two parts or plates, which extend inwardly and obliquely from the hinged connections, the upper plates
70 being provided with semicircular notches or recesses adapted to inclose the handle of the brush, and the arrangement being such that when the brush is inserted the upper plates close the opening in the cap and when the
75 brush is withdrawn the lower plates closing the opening in the cap, this operation being effected by means of wire springs mounted upon the rod by which the plates or closing
80 devices are connected with the cap or cover, one end of said springs being adapted to press upon one of said plates and the other to press upon the lower surface of the cap or cover, substantially as shown and described.

In testimony that I claim the foregoing as
85 my invention I have signed my name, in presence of the subscribing witnesses, this 15th day of August, 1895.

DAVID T. ELLIS.

Witnesses:

C. GERST,

M. A. KNOWLES.