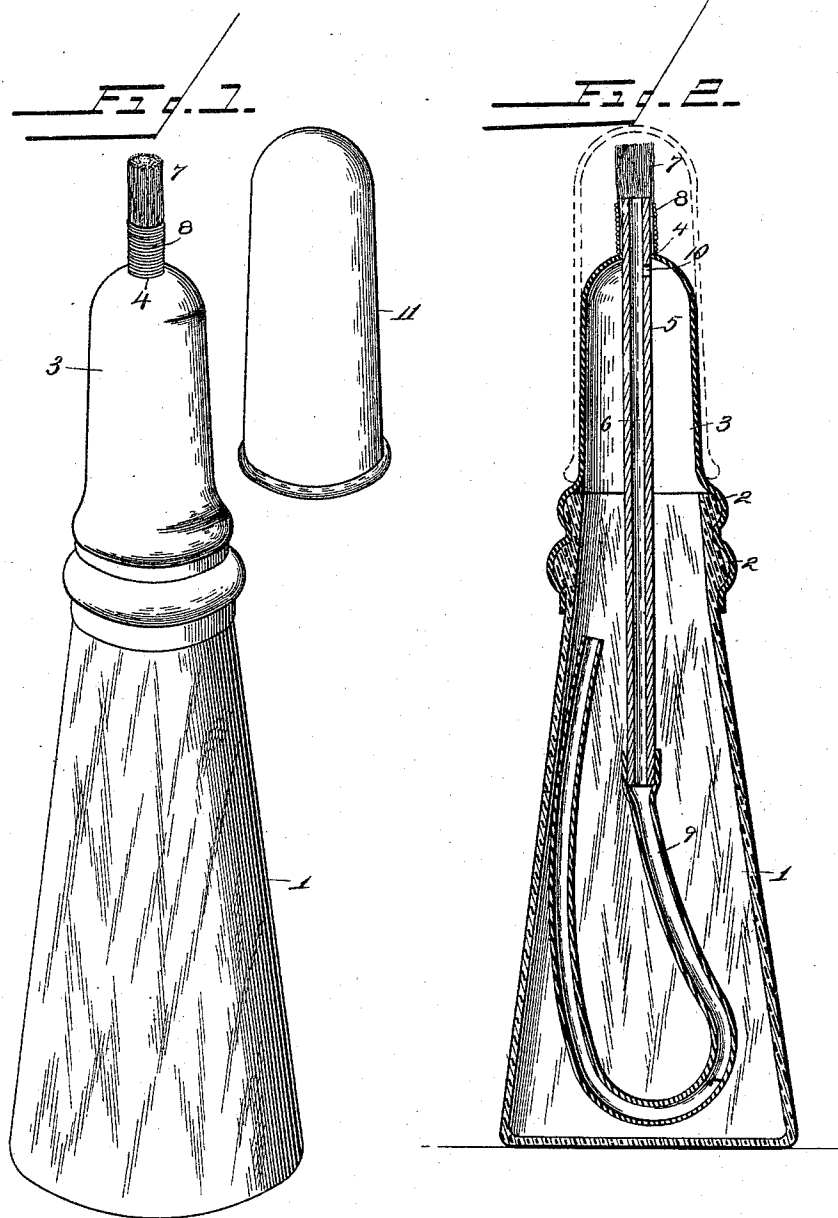


(No Model.)

A. B. NORLIN.
MUCILAGE BOTTLE.

No. 585,447.

Patented June 29, 1897.



Inventor

Alfred B Norlin

Witnesses

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UNITED STATES PATENT OFFICE.

ALFRED B. NORLIN, OF MINDEN, NEBRASKA.

MUCILAGE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 585,447, dated June 29, 1897.

Application filed April 27, 1896. Serial No. 589,308. (No model.)

To all whom it may concern:

Be it known that I, ALFRED B. NORLIN, a citizen of the United States, residing at Minden, in the county of Kearney and State of Nebraska, have invented a new and useful Mucilage-Bottle, of which the following is a specification.

This invention relates to an improvement in mucilage-bottles, more particularly to the form and arrangement of the stopper or cover, brush, &c., for conducting the mucilage from the interior of the bottle to the brush in any desired quantity.

The object of the invention is to provide a simple and inexpensive form and construction of mucilage-bottle, covering-bulb of elastic material, such as rubber, tubular brush-holder, &c., whereby the device as a whole is adapted to operate automatically for feeding the mucilage to the spreading-brush.

To this end the invention consists in a pneumatic mucilage spreading or distributing device comprising a mucilage-containing body, a spreading or distributing brush, a compressible bulb arranged between said body and brush, and a tubular duct and support for the brush attached to and entering said bulb; also, in certain features and details of construction hereinafter fully described, illustrated in the drawings, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a mucilage-bottle constructed in accordance with my improvement with the cap removed. Fig. 2 is a vertical section through the same.

Similar numerals of reference indicate corresponding parts in both figures of the drawings.

Referring to the drawings, 1 designates a hollow vessel or body containing a supply of mucilage, liquid paste, or glue. At its upper end or neck said body is formed with surrounding ribs 2 or in other suitable manner to receive the lower end of a rubber hood or compressible bulb 3, of a size adapting it to extend upwardly a short distance above the top or neck of the body 1. The bulb 3 is secured around the neck of the bottle or vessel 1 in any suitable or convenient manner, and is provided at its upper end with a central perforation 4, through which the brush-support is adapted to pass.

The brush-support 5 is tubular or provided with a central perforation 6, extending entirely through the same, and the bristles of the spreading-brush 7 surround said tubular support and are secured thereto by binding cord or wire 8 or in any convenient manner. The tubular support 5 extends well down into the bottle or body 1 and at its lower end receives a piece of flexible rubber tubing 9, through which the mucilage or other material contained in the bottle is adapted to pass to the tubular support 5 and thence to the spreading-brush 7.

The tubular support 5 fits tightly within the compressible bulb 3, and when the mucilage-bottle is inverted and a slight pressure applied to the spreading-brush the bulb 3 will be compressed slightly or with a corresponding pressure, and being air-tight the air within said bulb will be compressed, thereby forcing the mucilage through the tube 9 and tubular support 5 and discharging the same between the bristles of the spreading-brush 7. A vent or perforation 10 through the wall of the tubular support 5 is provided for the passage of the air to and from and between the air-chamber in the bulb 3 and the perforation in the tubular support. The perforation 10 also serves, when the supply of mucilage has become nearly exhausted and when the bottle is inverted, to conduct said mucilage to the perforation 6 and thence to the brush.

A covering hood or cap 11, preferably of metal, is adapted to be placed over the compressible bulb 3 and the spreading-brush 7 for providing an air-tight joint and excluding air from said spreading-brush, thereby preventing evaporation of the mucilage and the consequent drying of the brush.

By means of the construction above described it will be apparent that air is effectively excluded from the interior of the compressible bulb and the vessel 1, thereby preventing evaporation of the contents of the bottle and rendering the device very economical. It will also be apparent that the amount of mucilage supplied to the spreading-brush may be regulated by the pressure of said brush and the compression of the bulb 3. The more the bulb 3 is compressed the greater the amount of mucilage that will be forced through the tube 9 and tubular support 5

to the spreading-brush. It will be apparent therefore that the flow of the mucilage to the brush is under control and easily regulated, thereby preventing a surplus of mucilage from adhering to the outside of the brush and securing an even spreading of the mucilage, thus saving time and annoyance. The flexible tube 9 may in some instances be dispensed with.

10 Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

15 Having thus described my invention, I claim—

1. A mucilage-containing body, and a compressible bulb secured thereto, in combination with a spreading or distributing brush arranged outside of said bulb, and a tubular support for said brush passing through the bulb and into the mucilage-containing body, substantially as described.

2. A mucilage-containing body, and a compressible bulb secured thereto, in combination with a spreading or distributing brush arranged outside of said bulb, a tubular support for said brush passing through the bulb and into the mucilage-containing body, and

a flexible extension or rubber tube attached to the inner end of said tubular support, all arranged for joint operation, substantially as specified. 30

3. A mucilage spreading and distributing device, having a mucilage-containing body, a compressible bulb attached thereto, and an exteriorly-arranged spreading or distributing brush, in combination with a tubular duct leading from the interior of said body to the spreading-brush, and having a vent or perforation therein leading from the interior of the compressible bulb to the interior of said tubular duct, substantially as and for the purpose described. 35 40

4. A mucilage spreading or distributing device comprising a body 1, a compressible bulb 3, a spreading-brush 7, a tubular support 5 for the spreading-brush, and a flexible tubular extension secured to the latter, in combination with a removable cover or hood, substantially as and for the purpose described. 45 50

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALFRED B. NORLIN.

Witnesses:

W. W. PHAR,
C. A. VEDENE.