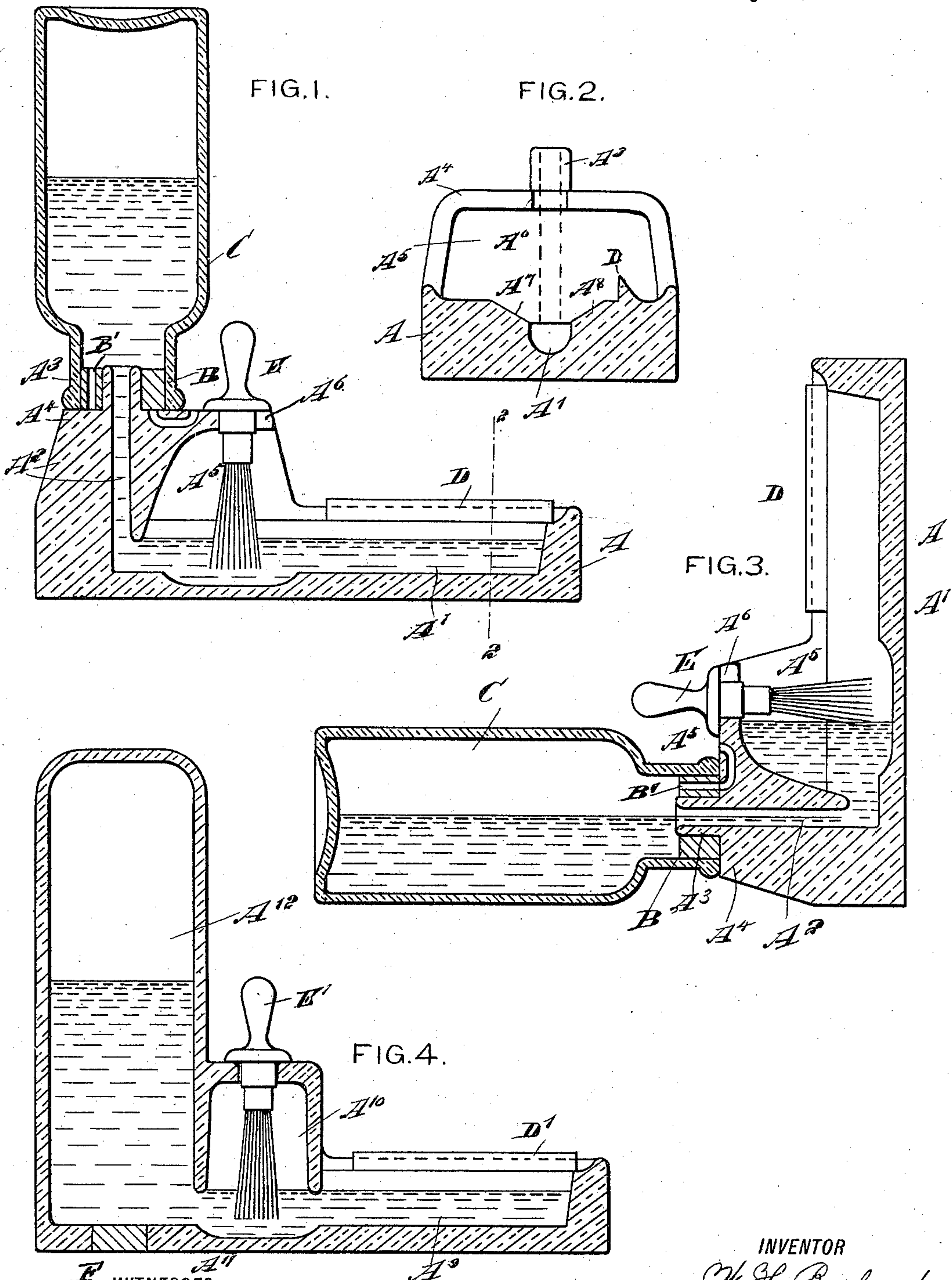


(No Model.)

W. H. BURLAND.
GUMMING APPARATUS.

No. 586,010.

Patented July 6, 1897.



WITNESSES:

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WILLIAM HENRY BURLAND, OF PUNTA GORDA, FLORIDA.

GUMMING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 586,010, dated July 6, 1897.

Application filed September 19, 1896. Serial No. 606,375. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY BURLAND, of Punta Gorda, in the county of De Soto and State of Florida, have invented a new and Improved Gumming Apparatus, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved gumming apparatus, more especially designed for conveniently and rapidly applying an adhesive liquid to a label or similar device to be attached to a medicine or other bottle or other article.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

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

Figure 1 is a sectional side elevation of the improvement. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1. Fig. 3 is a sectional side elevation of the improvement in position for returning the adhesive liquid to the supply-vessel, and Fig. 4 is a sectional side elevation of a modified form of the improvement.

The improved gumming apparatus is provided with a body A, made of glass or other suitable material, having a trough A' in its upper face, connected at one end with an upwardly-extending opening A², the top end of which terminates in a pipe-like nipple A³, formed on the flat top surface of a projection A⁴, integral with the end of the body through which the opening A² passes. The nipple A³ is adapted to engage an opening in the stopper B of the supply-vessel C, containing the adhesive liquid and preferably in the form of the ordinary mucilage-bottle. The mouth of the vessel C rests on the flat top surface of the projection A⁴ when the device is in use, as is plainly illustrated in Fig. 1. It is evident that the adhesive liquid contained in the vessel C flows through the opening A² into the trough A', so as to fill the same and keep the same supplied as the liquid is removed from the trough by the articles to be gummed, as hereinafter more fully described.

The body A is provided on its top with

bevels A⁷ A⁸, leading at their lower ends to the sides of the trough A', as is plainly shown in Fig. 2, to permit of conveniently drawing a label or other article to be gummed transversely down over the bevel A⁷, and over the surface of the liquid contained in the trough A', then up over the bevel A⁸, and over a scraper D, secured to or formed on the body A, and extending longitudinally on the top edge of the bevel A⁸, parallel to the trough A'. It is evident that when this is done the bottom of the label receives a coating of the adhesive liquid and the surplus liquid taken up by the label is scraped off by coming in contact with the scraper D. This surplus liquid flows down the bevel A⁸ back into the trough A'.

The projection A⁴ is formed in its front with a chamber A⁵, open at the front and having its bottom open to the trough A'. In the overhanging top of this chamber A⁵ is formed a seat A⁶, adapted to receive a mucilage-brush E of any approved construction, the seat being so arranged that the lower ends of the bristles of the brush extend into the adhesive liquid contained in the trough A', and the handle of the brush can be conveniently taken hold of by the operator to remove the brush from its seat whenever it is desired to apply the adhesive liquid on the bristles to an article to be gummed.

In using the device it is only necessary to form an opening in the stopper B of the ordinary mucilage-bottle, and then hold the body A in an upside-down position to pass the nipple A³ in engagement with the opening in the stopper B. The body A is then returned to its normal position, so that the mucilage-bottle rests on the top surface of the projection A⁴, as indicated in Fig. 1. The liquid can now flow from the mucilage-bottle through the opening A² and fill the trough, as previously explained.

In order to prevent evaporation and waste of the adhesive substance during the time the device is not in use, I prefer to return the adhesive liquid back into the bottle or vessel C, and for this purpose I tilt the body A over into the position shown in Fig. 3, so that the adhesive liquid contained in the trough A' can flow into the chamber A⁵, and then into and through the opening A² back into the re-

ceptacle C. The latter can then be removed from the nipple A³ until it is again desired to use the gumming apparatus. The above-described operation is then repeated—that is, 5 the bottle is again applied to the body projection A⁴, as previously explained.

In order to allow the air to pass into the bottle to insure a ready return flow of the adhesive liquid, I provide the stopper B with a 10 vent-hole B', adapted to register with a vent-groove b in the top of the projection A⁴. By turning the bottle on the nipple B³ the vent-hole can be brought in and out of register with the vent-groove, as shown in Figs. 1 and 3.

15 In the modified form shown in Fig. 4 the body is formed with a trough A⁹, which opens at one end into a dust-proof brush-receptacle A¹⁰, adapted to support and receive the mucilage-brush E' of the usual construction. The 20 inner wall of this receptacle A¹⁰ is connected by an opening A¹¹ with the lower end of a receptacle A¹², integral with the body and adapted to form a supply-vessel containing the adhesive liquid. A scraper D' is arranged 25 on the top of the body parallel to the trough A⁹, and the article to be gummed is treated in the same manner as above described in reference to Figs. 1 and 2. By tilting the body the receptacle A¹² is caused to assume 30 a vertical position, and then the adhesive liquid is poured into the lower end of the trough A⁹ to pass through the brush-receptacle A¹⁰ and opening A¹¹ into the receptacle A¹².

A stopper F is arranged in the bottom of the 35 receptacle A¹² to permit of conveniently filling the said receptacle A¹² at this point when the device is held in an upside-down position.

The troughs A' and the bottom of the receptacle A¹⁰ are preferably deepened below 40 the brush E to permit of using a brush with long bristles and to obtain a large amount of adhesive liquid for the brush at every dip of the brush.

When the device shown in Figs. 1 and 3, 45 inclusive, is in use, the operator takes hold of one end of the label or other article with

one hand and draws it transversely over the top of the body A and presses with a finger of the other hand on the label directly over the trough A', so that the under side of the 50 label moves down the bevel A⁷ and over the surface of the adhesive liquid and causes the latter to gum the under side of the label. The label is then passed up the incline A⁷ and over the scraper D, which removes the 55 surplus adhesive liquid, which flows back into the trough A', as previously described.

It will be seen that the device is very serviceable for the use of druggists and other persons for conveniently and quickly coating a 60 label or the like with an adhesive substance.

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

1. A mucilage-receptacle having a body 65 portion with a trough running longitudinally therewith, the body portion also having two beveled portions respectively on the sides of the trough and slanting downwardly toward the trough, the body portion also having a 70 scraper running parallel with one of the beveled portions and the body portion having an overhanging seat capable of carrying a brush, and the body having an upwardly-projecting nipple communicating with the trough, and 75 a reservoir having a neck wherein the nipple is received, substantially as described.

2. A mucilage-receptacle having a body portion with a trough running along a part of 80 the upper side of the body portion, the body portion also having a seat overhanging one end of the trough and capable of carrying a brush, and the body portion further having an upwardly-projecting nipple adjacent to 85 the seat and communicating with the trough and adapted for connection with the reservoir, substantially as described.

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Witnesses:

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