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E. C. BERNERS

2,314,383

FOUNTAIN PENCIL

Filed Aug. 28, 1941

Fig. 1.

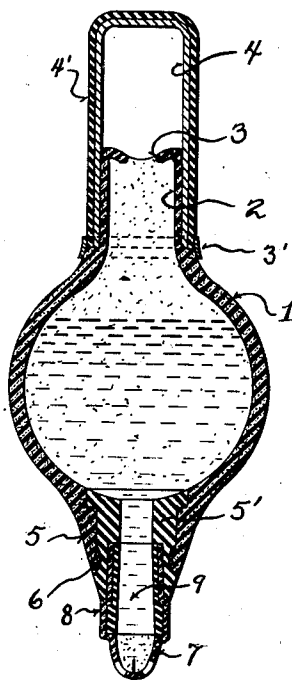
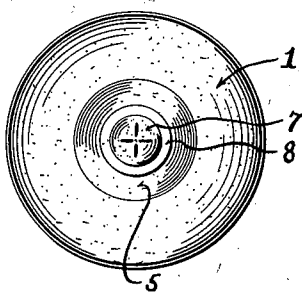


Fig. 2.



INVENTOR

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BY

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UNITED STATES PATENT OFFICE

2,314,383

FOUNTAIN PENCIL

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Application August 28, 1941, Serial No. 408,636

1 Claim. (Cl. 15—136)

The invention refers to fountain receptacles particularly pencils of this type for distributing mucilage or the like.

The specific object of the invention is to provide a fountain pencil having a mucilage containing flexible bulb associated with an air pressure dome and flexible discharge nipple whereby the nipple when gummed up can readily be freed, in manipulating the device through pressure upon the bulb.

Another object of the invention is to provide a fluid containing flexible bulb having a neck extension in a hollow jacket, of rigid construction, which serves as a handle and compression chamber, while the lower or nozzle end of the bulb is engaged by a removable nipple construction, which serves as a glue distributor and has a reinforcing rigid collar associated therewith for effecting a proper union with the nozzle.

With the above and other minor objects in view the invention consists in certain peculiarities of construction and combination of parts as will be fully set forth hereinafter with reference to the accompanying drawing and subsequently claimed.

In the drawing, Figure 1 represents a sectional elevation of a fountain pencil embodying the features of the invention, and Figure 2 a bottom plan view of the same.

Referring by characters to the drawing—1 indicates a soft rubber bulb which serves as a fluid container and the bulb terminates at its upper end with an integral neck 2, having a downwardly cupped restricted mouth 3 at its terminus. The neck 2 is permanently secured to a metallic hollow jacket 4 which jacket terminates in a closed end a considerable distance from the mouth of the neck, whereby said jacket forms an internal air compression chamber and also serves as a convenient hand grip for the operator. The metal jacket is provided with a hard rubber shell 4' which being of non-heat conducting material will preserve the proper temperature within the bulb and its associated parts. The bottom end of the jacket where it engages a shoulder of the bulb 1, is hermetically sealed by a band 3'.

The bottom end of the bulb is molded with an integral nozzle extension 5 which is secured to a hard rubber nozzle 5' suitably shouldered for assembly purposes and at the point where the nozzle extension and nozzle proper are secured the joint is perfectly sealed by a winding thread 6.

The discharge mouth of the nozzle is adapted

to receive a removable stopper, in the form of a soft rubber nipple 7, the same being perforated at this end in any suitable manner for the discharge of the fluid contained in the bulb. The soft rubber nipple is provided with a sleeve extension 8 which is snugly fitted over a rigid shouldered collar 9 and serves to stiffen the stopper at its upper end which is inserted in an accompanying recess formed in the nozzle 5'.

From the foregoing description it will be noted that when the pencil is functioning the operator presses the bulb, whereby the fluid therein is positively forced out through the perforated nipple 7, and this force is magnified due to the fact that the fluid and air which might rise, when the bulb is squeezed and thus produce an air pressure in the dome of the jacket. When the bulb is reversed for filling, some of the fluid will pass through the restricted mouth of the neck 3, but will drain from the dome back into the bulb proper, and thereafter when the bulb is compressed, a small quantity of the fluid may be discharged into the air dome through the restricted cuplike mouth 3. However, this minute quantity of the fluid will be slight, due to the fact that under compression the restricted opening in the nipple will partly close.

Thus it will be seen that applicant has produced a simple, effective and economical fluid pencil which will function at all times by a simple squeezing of the bulb and the structure, due to the simplicity, can be cheaply manufactured to maintain its utility without liability or wear in any part. Obviously when it is desired to refill the pencil with fluid, the stopper is removed and the device inverted from the working position shown.

What is claimed is:

A fountain pencil for the distribution of mucilage or the like comprising, a flexible bulb container, a rigid discharge nozzle extending therefrom having an open end, a combination spreader nipple and cork for the same comprising a shouldered sleeve, a soft rubber perforated nipple having its shank encasing the sleeve, an integral neck extending from the upper end of the bulb having a downwardly cupped restricted opening in its end, and a closed end hollow jacket secured to the neck and extending thereabove to form an air dome in conjunction with the cupped end of said neck.

CATHERINE PILON.

Administratrix of the Estate of Edward C. Berners, Deceased.