Dec. 8, 1953 H. PUCKMAN 2,661,741

FOUNTAIN SYRINGE BAG

Filed Sept. 2, 1949

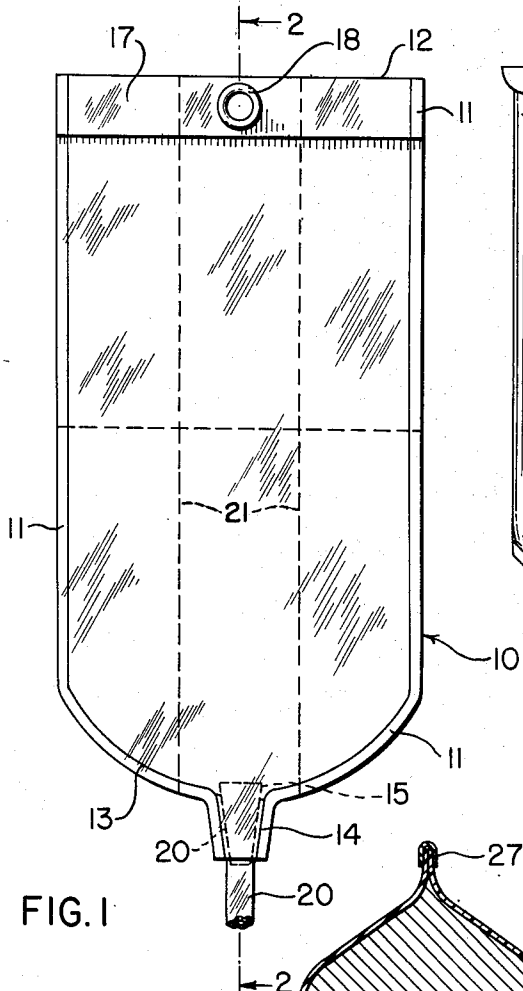


FIG. 1

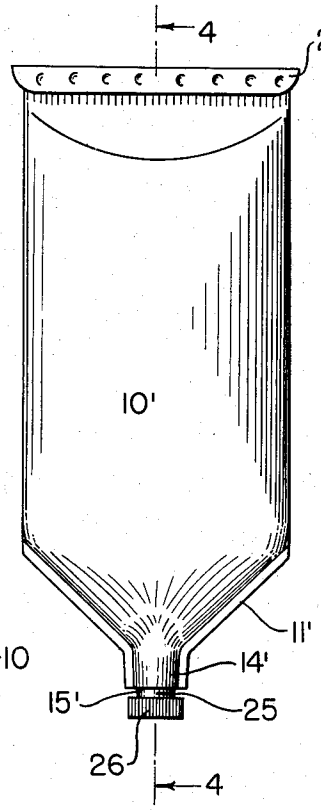


FIG. 3

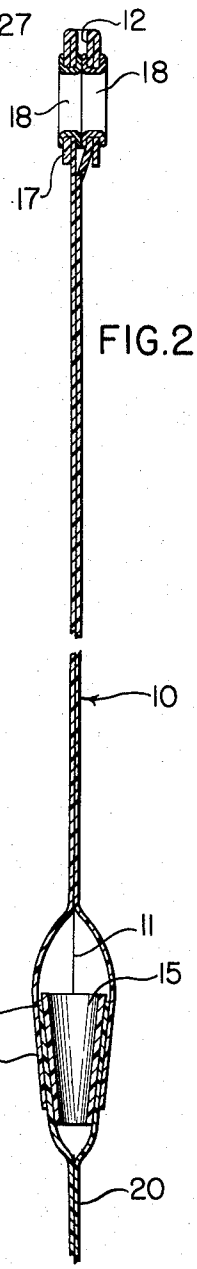


FIG. 2

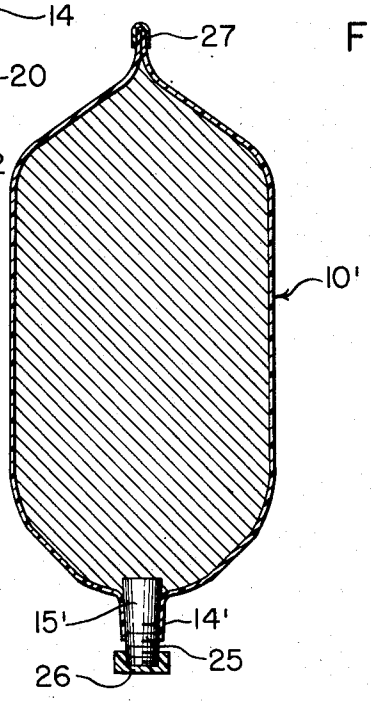


FIG. 4

INVENTOR.
Hyman Puckman
BY
ATTORNEY

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FOUNTAIN SYRINGE BAG

Hyman Puckman, New York, N. Y., assignor to Hermac International, Ltd., New York, N. Y., a corporation of New York

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2 Claims. (Cl. 128—227)

1

The present invention relates to a dispensing receptacle.

It is an object of the present invention to provide a dispensing receptacle which is thin walled and of little bulk and which is collapsibly flexible, so that it may, if desired, be compactly folded into a substantially flat package to occupy a minimum of space in a pocket or a transporting receptacle.

It is another object of the present invention to provide a dispensing receptacle of the character described which is of little bulk and of light weight so that it may not only occupy a minimum of space when folded, but will also be of minimum weight.

It is a further object of the present invention to provide a dispensing receptacle of the character described which is economical to produce, being capable of mass production from relatively cheap material so that it may constitute an economically practical disposable receptacle.

It is a still further object of the present invention to provide a dispensing receptacle of the character described which, although disposable from an economical, practical point of view after a single use, is, nevertheless, of ample strength and durability to withstand continued and repeated use.

The foregoing and other advantages and superiorities of the receptacles of the present invention will become more readily apparent from the several embodiments thereof shown in the accompanying drawings, one of which is in the form of a collapsible and foldable douche bag and the other of which is in the form of a dispensing tube, as for tooth paste or shaving cream or the like. It is to be understood, however, that such embodiments are shown by way of illustration only, to make the principles and practice of the invention more readily comprehensible, and without any intent of limiting the invention to adaptation for the specific objects indicated or their structural details.

In the drawings:

Fig. 1 is an elevational view of a dispensing receptacle of the present invention as embodied in the form of a douche or enema bag shown empty and as associated with a conducting tube which is partly broken away;

Fig. 2 is a foreshortened vertical sectional view, on an enlarged scale, taken on line 2—2 of Fig. 1;

Fig. 3 is a view in elevation of a modification of the dispensing receptacle of the present invention embodied, as a paste dispensing tube, shown as filled; and,

Fig. 4 is a section taken on line 4—4 of Fig. 3.

2

Referring more specifically to the accompanying drawing, the dispensing receptacle of the present invention comprises a bag portion, 10, formed of a thin, tough, preferably transparent, collapsibly flexible sheet of organic, synthetic, plastic material as a vinylic plastic such as polyethelene, polythene and the like. The bag 10 may be formed of one or more thin sheets of the material as of about 0.003 thickness by heat adhesion or welding of the suitable edges as at 11, to leave an open end, 12, and to provide an opposed closed end, 13, tapering outwardly from the sides towards the center thereof and provided, at its center, with an open ended sleeve, 14, having a slight outward taper.

Also provided in association with the bag, 10, is a rigid nipple or coupling, 15, of a size and tapering shape suitable for insertion into and retention within the sleeve 14 through the interior of the bag. The nipple 15 may be formed of any suitably rigid material, such as hard rubber or a synthetic plastic.

In the embodiment of Figs. 1 and 2 wherein the dispensing receptacle is in the form of an enema or douche bag. The open end of the receptacle may be reinforced by doubling the edges over as at 17 and may have grommets, 18, set into the edges for purposes of suspension and support. A tube, 20, of the same material as the bag 10 which may be formed in the same manner as the receptacle, as by heat welding, or as a continuous tubing, and of a diameter adapted to fit over the nipple 15, is provided. Preferably the tube 20 may be thinner walled as of about 0.002 thickness.

The bag may be assembled by passing an end of the tube 20 from the exterior of the bag 10 through the sleeve 14 into the interior of the bag 10, then inserting the nipple 15, thinner end foremost, into the inserted end of the tube 20 and then forcing the assembled nipple and tube backwardly into the sleeve 14 to form a closed water tight assembly. Preferably the assembly may be made while the bag 10 is warm, so that the contraction on cooling will render the assembly uniformly tight and close. It will be readily apparent that when thus assembled the bag is ready for use by inserting a suitable nozzle at the other end of the tube 20 and then proceeding in the conventional manner.

It will also be readily apparent that the assembled douche bag may be readily disassembled, if desired, after use and may, whether assembled or disassembled, be compactly folded, as along the fold lines, 21, shown in the broken lines, to be inserted flatly, together with the folded

tube 20 and the requisite nozzle or nozzles, not shown, into a suitable carrying envelope, not shown, to form a substantially flat, compact package of light weight and occupying but little space, convenient to store and carry on the person or in luggage while traveling or otherwise.

In the embodiments of Figs. 3 and 4, the receptacle, 10', may be formed in the same manner as described above, or from a continuous flat tubing, with only the end 13' and the edges of the sleeve 14' being welded, as at 11'. Also, the nipple 15' may have threads 25 formed at its narrower end adapted to receive a threaded cap 26.

The receptacle or tube 10' may be filled with the desired material in the conventional manner, as by automatic machinery as with tooth paste, shaving cream or the like, and a metallic clamp, 27, applied in the conventional manner.

This completes the description of the dispensing receptacle of the present invention. The advantages and superiorities thereof by way of compactness, lightweight, convenience and economy will be obvious to anyone skilled in the art. It will also be apparent that numerous modifications and variations thereof may be made as well as adaptations for use other than those hereinabove set forth, by anyone skilled in the art, in accordance with the principles of the invention set forth hereinabove, and without the use of any inventive ingenuity. I desire, therefore, to be protected for any and all such modifications and variations that may be made within the spirit of the present invention and the scope of the claims hereto appended.

What I claim is:

1. A dispensing receptacle comprising an inherently flat, dilatable tubular thin-walled receptacle member formed of a collapsible and foldable, flexible material, said receptacle member open at one end and having an integrally formed open-ended sleeve extending outwardly from a closed edge thereof, a foldable flexible, flat tube having an outer circumference substantially equal to the inner circumference of the outer portion of said sleeve and a rigid nonmetallic slightly conical tubular nipple adapted to be tightly disposed within said sleeve, one end of said tube fitted over said nipple and said tube covered nipple fitted tightly within said sleeve.

2. The dispensing receptacle of claim 1 wherein said sleeve tapers slightly outwardly and said nipple tapers conformingly to said sleeve.

HYMAN PUCKMAN.

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