

FORM 2

THE PATENTS ACT 1970

(39 OF 1970)

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The Patent Rules, 2003

COMPLETE SPECIFICATION

(See section 10 and Rules 13)

TITLE OF THE INVENTION

BURSTABLE AND DISPOSABLE LIQUID / SOLUTION APPLICATION DEVICE

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PREAMBLE TO THE DESCRIPTION

The following specification particularly describes the invention and the manner in which it is to be performed.

FIELD OF INVENTION

This invention relates to a burstable and disposable liquid/solution application device. Particularly this invention relates to a disposable device to contain medicinal liquids/solution in it for use by the doctors and patient in first-aid situation or when its required.

PRIOR ART

Normally, the medicinal solution is added to the foamed polymer during the manufacture of the treatment pad and the wetted pad is then shipped in a hermetically sealed pouch, or bag, for subsequent opening and removal of the treatment pad for use on a patient.

European patent application no. EP0681546B1, teaches about a treatment delivery system comprising an outer container, an inner container which is substantially smaller than the outer container and is fixedly positioned within said outer container, said inner container containing a treatment solution and being readily burst upon the application of pressure thereto, a dry foam element placed within said outer container characterised in that: the outer container is hermetically sealed and flexible, the inner container occupies only a specified region of the outer container, means are provided on said outer container for indicating the position of said inner container within said outer container, the dry foam element is located separate from the inner container and loosely placed within the outer container, and when the pressure is applied to the outer container at said indicated means, the inner container bursts and said treatment solution comes into contact

with said dry foam element so as to wet said foam element with the treatment solution, whereby the wetted foam element is available for delivery of said treatment solution.

European patent application no. EP1038793B1, teaches about a cell system comprising at least one burstable cell filled with an active composition said at least one cell comprising an easy opening means, said cell system being characterized in that the material for making said at least one cell is selected from: one thick layer of thermoplastic material selected from: a layer of high-density polyethylene (HDPE) more than 50µm thick; a layer of polypropylene (PP) more than 100 µm thick; a layer of low density polyethylene (LDPE) more than 150 µm thick; a laminate material comprising at least one layer of a barrier material wherein said laminate is made of polyolefin and metallic layers, preferably polyolefin and aluminum layers, more preferably an LDPE/Alu/Pet laminate, said material for making said at least one cell (11) having a water vapor transmission rate (WVTR) of less than 6g/sqm/day at 40°C/90%RH.

There are disadvantages associated with the prior art. One of the disadvantages is that the conventional system, are very costly and are not affordable by the common man.

Another disadvantage associated with the prior art is that the construction of the conventional system is very complex in nature.

Yet another disadvantage associated with the prior art is that the conventional systems take long time to use it.

Still another disadvantage associated with the prior art is that the conventional systems are very big in size.

A further disadvantage associated with the prior art is that the conventional systems the formulation sometimes get spoiled and thus is wasted.

Another disadvantage associated with the prior art is that the conventional systems have a risk of contamination of formulation filled.

A further disadvantage associated with the prior art is that the conventional systems have a high risk of infection generation in first-aid situations.

OBJECTS OF THE INVENTION

Therefore, an object of the present invention is to provide a burstable and disposable liquid/solution application device which obviates the disadvantages associated with the prior art.

Another object of the present invention is to provide a burstable and disposable liquid/solution application device wherein the pouch is compact in size.

Yet another object of the present invention is to provide a burstable and disposable liquid/solution application device wherein the pouch is easily accessible by big population and can be used once only.

Still another object of the present invention is to provide a burstable and disposable liquid/solution application device wherein the pouch is cost effective.

A further object of the present invention is to provide a burstable and disposable liquid/solution application device wherein there is no wastage and there is no risk of spoilage.

Another object of the present invention is to provide a burstable and disposable liquid/solution application device wherein the risk of contamination of medicinal formulation filled-in the pouch is reduced drastically.

A further object of the present invention is to provide a burstable and disposable liquid / solution application device wherein the risk of infection generation in the first-aid situation is decreased.

STATEMENT OF THE INVENTION

According to this invention there is provided a burstable and disposable liquid / solution application device comprising a flexible pouch adapted to be disposed into a cover pouch such that to break open the same by applying a little pressure on the cover pouch so as to get the medicinal liquid absorbed by the cover pouch for application purposes on the body of a patient as and when required.

BRIEF DESCRIPTION OF THE ACCOMPANYING DRAWINGS

A burstable and disposable liquid / solution application device according to a preferred embodiment of the present invention is herein described and illustrated in the accompanying drawings, wherein:

Figure 1 & 2, illustrates the device,

Figure 3, illustrates the device in open position,

DETAILED DESCRIPTION

A burstable and disposable liquid / gel application device is herein described with numerous specific details so as to provide a complete understanding of the invention. However, these specific details are exemplary details and should not be treated as the limitation to the scope of the invention. Throughout this specification

the word “comprise” or variations such as “comprises or comprising”, will be understood to imply the inclusions of a stated element, integer or step, or group of elements, integers or steps, but not the exclusions of any other element, integer or step or group of elements, integers or steps.

Referring to the drawing, particularly figure 1, 2 and 3, a burstable and disposable liquid / gel application device is shown. The device comprises a flexible pouch (1) adapted to be disposed into a cover pouch (2) made of an absorbable paper or cotton. The pouch is provided to store a medicinal liquid or solution to be applied on a particular part / portion of the body of a patient. In one embodiment the liquid / solution comprises an antiseptic liquid / solution.

The flexible pouch (1) is made of a thin plastic sheet, made of low-density polyethylene (LDPE) having a thickness of 0.5 to 2 mm and is adapted to burst upon applying a little pressure thereon. The absorbable paper comprises a conventional blotting paper. The cotton comprises a layer of cotton or cotton balls of a thickness of 2 to 3 mm.

During use, the pouch is placed between the two fingers and thumb and a little pressure is applied to break open the pouch. The medicinal liquid / solution is thus spread throughout the tissue paper or cotton layer / ball such that to be applied on the body of a patient as and when required.

Certain features of the invention have been described with reference to the example embodiments. However, the description is not intended to be construed in a limiting sense. Various modifications of the example embodiments as well as other embodiments of the invention, which are apparent to the persons skilled in

the art to which the invention pertains, are deemed to lie within the spirit and scope of the invention.

WE CLAIM:

1. A burstable and disposable liquid / solution application device comprising a flexible pouch adapted to be disposed into a cover pouch such that to break open the same by applying a little pressure on the cover pouch so as to get the medicinal liquid absorbed by the cover pouch for application purposes on the body of a patient as and when required.
2. The burstable and disposable liquid / solution application device as claimed in claim 1, wherein the flexible pouch is made of low density polyethylene (LDPE) having a thickness of 0.5 to 2 mm.
3. The burstable and disposable liquid / solution application device as claimed in claim 1, wherein the cover pouch is made of absorbable paper having a thickness of 2 to 3 mm.
4. The burstable and disposable liquid / solution application device as claimed in claim 1, wherein the cover pouch is made of cotton / cotton ball.
5. The burstable and disposable liquid / solution application device as claimed in claim 1, wherein the medicinal liquid / solution comprises, for example, antiseptic liquid / solution.

Dated this 16th day of October, 2019

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[Sec Rule 22(1)]
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CBR Detail:

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1	202011007395	TEMP/E-1/7883/2020-DEL	1600	6296	FORM 1	BURSTABLE AND DISPOSABLE LIQUID / SOLUTION APPLICATION DEVICE

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