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(11)

**EP 0 799 773 A2**

(12)

**EUROPEAN PATENT APPLICATION**

(43) Date of publication:  
**08.10.1997 Bulletin 1997/41**

(51) Int Cl.<sup>6</sup>: **B65D 81/26**

(21) Application number: **97302350.0**

(22) Date of filing: **04.04.1997**

(84) Designated Contracting States:  
**DE ES FR GB IT PT**

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(30) Priority: **04.04.1996 GB 9607236**

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(54) **Dispenser with means for absorption of deleterious agents**

(57) The invention relates to apparatus (1) for obviating deterioration of a product in a container (2), such as a "beg-in-box" for dispensing of say wine, comprising means (3) adapted for absorption of agents deleterious

to the wine, particularly ambient oxygen. In the embodiment, this means (3) comprises a socket of oxygen-absorbing material in a compartment (5) of a body (7) of a tap (6).

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## Description

The invention relates to a dispenser, particularly to a dispenser for dispensing a product such as wine, fruit juice etc. from a container for example a "bag in box".

Such "bag in box" containers are very popular, particularly for wine. However, it is the case that deterioration of the product, e.g. wine, can occur owing to oxygen which can remain present within the container. Such oxygen can affect product (wine, for example) shelf life.

It is an object of the invention to seek to mitigate this disadvantage.

According to a first aspect of the invention there is provided apparatus for obviating deterioration of a product in a container, comprising a dispenser having means adapted for absorption of deleterious agents.

The means may comprise an oxygen absorbing means. This effectively prolongs the life of the product.

The oxygen absorbing means may comprise a container for an oxygen absorbent, which container may in turn comprise a sachet of oxygen absorbing material.

The sachet may be mounted in a compartment of the dispenser. This provides a compact construction.

The dispenser may comprise a press-operable tap.

According to a second aspect of the invention, there is provided a container, comprising apparatus for obviating deterioration of a product in the container as hereinbefore defined.

Apparatus for obviating deterioration of a product in a container is hereinafter described, by way of example, with reference to the accompanying drawing, which shows a partially-sectioned dispenser in the form of a press tap according to the invention for "bag-in-box" use.

Referring to the drawing, there is shown apparatus 1, for obviating deterioration of a product in a container 2, such as a "bag-in-box" for dispensing of say wine, comprising means 3 adapted for absorption of deleterious agents, particularly in the embodiment, ambient oxygen.

The means 3 comprises a sachet 4 of oxygen-absorbing agent which in the embodiment is mounted in a compartment or void 5 of a dispenser 6 such as a push-operated tap which is adapted by a body 7 and a flange 8 for mounting in the "bag-in-box" 2, in the embodiment.

The product, on operation of a push valve of the tap 6, allows flow from the container 2 to the outside, to say a glass, in the direction of the arrows 'X'. When the tap 6 is closed, the interior of the box 2 and the interior of the body of the tap are in communication, as is the compartment 5.

Thus any oxygen in the box which would otherwise tend to cause deterioration of the product, is absorbed by the material in the sachet 4. This material is a standard absorber of oxygen. Thus the "life" of the product is enhanced.

It will be understood that modifications are possible. Thus the sachet 4 may be in a location different from

that shown, for example in the container itself, or in a wall thereof.

## Claims

1. Apparatus for obviating deterioration of a product in a container, characterised by means (3) adapted for absorption of deleterious agents.
2. Apparatus according to Claim 1, characterised by the means (3) comprising an oxygen absorbing means.
3. Apparatus according to Claim 2, characterised by the oxygen absorbing means (4) comprising a container for an oxygen absorbent.
4. Apparatus according to Claim 3, characterised by the container comprising a sachet (4) of oxygen absorbing material.
5. Apparatus according to Claim 4, characterised by the sachet (4) being mounted in a compartment (5) of a dispenser (6).
6. Apparatus according to Claim 5, characterised by the dispenser (6) comprising a press-operable tap.
7. Apparatus according to claim 6, characterised by the compartment (5) being spaced from a flow path 'X' for liquid through the dispenser (6).
8. Apparatus according to claim 7 characterised by the compartment (5) being above the flow path 'X'.
9. A container (2), characterised by apparatus (1) for obviating deterioration of a product in the container according to any preceding claim.

