

Title (en)

Method for preparation of a liquid to be lyophilized and use of said liquid.

Title (de)

Verfahren zur Gefriertrocknung von Flüssigkeiten und ihre Anwendung.

Title (fr)

Procédé de conditionnement et d'utilisation d'un liquide à lyophiliser dans une poche souple.

Publication

EP 0065469 A2 19821124 (FR)

Application

EP 82400943 A 19820519

Priority

FR 8110069 A 19810520

Abstract (en)

1. Method of conditioning and utilization of a liquid involving its lyophilization, wherein : - in order to contain the liquid in the conditioning stage and in the utilization stage, there is employed one and the same container constructed in the form of a flexible bag having a first and a second wall (1) bonded along their external contour (82) so as to form an envelope and a rigid neck (6) which extends through said envelope in leak-tight manner, thus forming an opening of the bag ; - in the conditioning stage : the liquid container is partially filled with liquid, the container is placed in a substantially horizontal position on a support of the lyophilization device in such a manner as to ensure that a first wall and the neck are in contact with said support, the two walls being maintained in relatively spaced relation solely by the neck in the vicinity of this latter, said second wall is lifted in its remaining non-spaced portion so as to ensure that the liquid which rests substantially on said first wall has a free surface which is not in contact with the second wall, the liquid is cooled to freezing point, it is reheated in a vacuum while discharging through the neck the steam extracted by sublimation of the frozen product, the opening of the neck is hermetically sealed-off, said container is stored until direct utilization of the conditioned liquid ; - and in the utilization stage : the liquid is reconstituted by injecting water into the container without impairing leak-tightness, the reconstituted liquid is withdrawn from said container.

Abstract (fr)

Réceptient pour liquide à lyophiliser réalisé sous forme d'une poche souple, caractérisé en ce qu'il comporte un goulot rigide (6) traversant de manière étanche l'enveloppe de la poche souple, largement dimensionné pour permettre l'évacuation de la vapeur produite lors de la lyophilisation d'un liquide reçu dans la poche.

IPC 1-7

A61J 1/00

IPC 8 full level

A61J 1/00 (2006.01); **A61J 1/05** (2006.01); **F26B 5/06** (2006.01)

CPC (source: EP)

A61J 1/10 (2013.01); **F26B 5/06** (2013.01)

Cited by

US5871110A; US5925029A; US6090093A; GB2361709A; EP0426475A1; US6003566A; DE4405965A1; US5520677A; US6213994B1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0065469 A2 19821124; **EP 0065469 A3 19830622**; **EP 0065469 B1 19880824**; AT E36645 T1 19880915; DE 3278928 D1 19880929; FR 2506264 A1 19821126; FR 2506264 B1 19850104

DOCDB simple family (application)

EP 82400943 A 19820519; AT 82400943 T 19820519; DE 3278928 T 19820519; FR 8110069 A 19810520