

Title (en)

METHOD AND INSTALLATION FOR PACKAGING A LIQUID PRODUCT IN A PACKAGE

Title (de)

VERFAHREN UND ANLAGE ZUM VERPACKEN EINER FLÜSSIGKEIT

Title (fr)

PROCEDE ET INSTALLATION ET CONDITIONNEMENT DE PRODUIT LIQUIDE DANS UN EMBALLAGE

Publication

EP 1332087 B1 20050928 (FR)

Application

EP 01982535 A 20011023

Priority

- FR 0103294 W 20011023
- FR 0013734 A 20001026

Abstract (en)

[origin: US2004035089A1] To package liquids in thin-walled packages while at the same time conferring good mechanical strength upon these packages, an inert gas such as nitrogen and/or carbon dioxide, in the gaseous state is or are introduced into the liquid by means of an injector (22), the liquid becoming saturated or supersaturated with which gas(es); the product obtained is stored in a reservoir (14) at a constant level above which an overhead of the said gas is created at a raised pressure which is constant by virtue of regulating means (3). On demand, this product is transferred, by tapping means (4), to packages which are partially filled with product the surface of which is surmounted with an overhead of the said gas at a raised pressure after the package has been sealed. Use: packaging of liquids, particularly food liquids.

IPC 1-7

B65B 31/00

IPC 8 full level

B65B 3/10 (2006.01); **B65B 31/00** (2006.01)

CPC (source: EP US)

B65B 31/006 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2004035089 A1 20040226; AT E305411 T1 20051015; AU 1409002 A 20020506; BR 0114946 A 20030916; BR 0114946 B1 20110920; CA 2427200 A1 20020502; CA 2427200 C 20090414; DE 60113710 D1 20051103; DE 60113710 T2 20060713; EP 1332087 A1 20030806; EP 1332087 B1 20050928; ES 2249487 T3 20060401; FR 2815937 A1 20020503; FR 2815937 B1 20030124; JP 2004512235 A 20040422; WO 0234624 A1 20020502

DOCDB simple family (application)

US 41523603 A 20030425; AT 01982535 T 20011023; AU 1409002 A 20011023; BR 0114946 A 20011023; CA 2427200 A 20011023; DE 60113710 T 20011023; EP 01982535 A 20011023; ES 01982535 T 20011023; FR 0013734 A 20001026; FR 0103294 W 20011023; JP 2002537628 A 20011023