

Title (en)
ONE-WAY VALVE AND APPARATUS AND METHOD OF USING THE VALVE

Title (de)
EINWEGEVENTIL UND VORRICHTUNG UND VERFAHREN ZUR VERWENDUNG DES VENTILS

Title (fr)
SOUPAPE UNIDIRECTIONNELLE ET PROCÉDÉ D'UTILISATION AFFÉRENT

Publication
EP 1973792 A4 20110831 (EN)

Application
EP 07709610 A 20070105

Priority
• US 2007000419 W 20070105
• US 75716106 P 20060105

Abstract (en)
[origin: WO2007133297A2] A flexible pouch and valve assembly is provided for aseptically storing a substance, dispensing multiple portions of the stored substance therefrom, and maintaining substance remaining in the pouch in an aseptic condition sealed with respect to ambient atmosphere. The flexible pouch and valve assembly are receivable within a relatively rigid housing, and are adapted to cooperate with a pump for pumping discrete portions of substance from the pouch and through the one-way valve to dispense the substance therefrom. The assembly comprises a Flexible pouch defining therein a variable-volume storage chamber sealed with respect to the ambient atmosphere for aseptically storing therein multiple portions of the substance. A one way valve of the assembly includes a valve body defining an axially-extending valve seat and at least one flow aperture extending through the valve body and/or the valve seat. A valve cover is mounted on the valve body, and includes an axially-extending portion formed of an elastic material overlying the valve seat and covering a substantial axially-extending portion thereof. The valve portion defines a predetermined radial thickness and forms an interference fit with the valve seat. The valve portion and the valve seat define an axially-extending seam therebetween forming a normally closed, axially-extending valve opening, and the valve portion is movable radially between (i) a normally closed position with the valve portion engaging the valve seat, and (ii) an open position with at least a segment of the valve portion spaced radially away from the valve seat to connect the valve opening in fluid communication with the at least one flow aperture and thereby allow the passage of substance from the variable-volume storage chamber through the valve opening. In the normally closed and open positions, the one-way valve maintains substance remaining in the variable- volume storage chamber in an aseptic condition and sealed with respect to the ambient atmosphere.

IPC 8 full level
B65D 37/00 (2006.01); **B65D 1/04** (2006.01)

CPC (source: EP)
B67D 1/0004 (2013.01); **B67D 1/0082** (2013.01); **B67D 1/10** (2013.01); **B67D 1/108** (2013.01); **F16K 15/145** (2013.01);
B67D 2001/0827 (2013.01)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007133297 A2 20071122; WO 2007133297 A3 20080228; AU 2007250178 A1 20071122; AU 2007250178 B2 20110901;
AU 2007250178 C1 20120712; BR PI0706436 A2 20110329; CA 2636311 A1 20071122; CA 2636311 C 20140923; CN 101389542 A 20090318;
CN 103964052 A 20140806; CN 103964052 B 20171017; EP 1973792 A2 20081001; EP 1973792 A4 20110831; MX 2008008761 A 20080912;
RU 2008127114 A 20100210; RU 2527119 C2 20140827; ZA 200805870 B 20100224

DOCDB simple family (application)
US 2007000419 W 20070105; AU 2007250178 A 20070105; BR PI0706436 A 20070105; CA 2636311 A 20070105;
CN 200780006559 A 20070105; CN 201410113685 A 20070105; EP 07709610 A 20070105; MX 2008008761 A 20070105;
RU 2008127114 A 20070105; ZA 200805870 A 20070105