

Title (en)
VALVE STRUCTURE FOR A PET KEG

Title (de)
VENTILANORDNUNG FÜR EIN PET-FASS

Title (fr)
STRUCTURE DE CLAPET POUR FÛT EN PET

Publication
EP 3348517 A4 20190522 (EN)

Application
EP 17853533 A 20171002

Priority
• RU 2016137883 A 20160922
• RU 2017000726 W 20171002

Abstract (en)
[origin: EP3348517A1] The invention relates to corking constructions intended for polyethylene terephthalate tanks for dispensing, storage and transportation of beverages under pressure (s PET keg). A valve construction for a PET keg comprises a cover with a central opening and means of connection with a keg neck, a hollow stem, valve element, spring, annular nut; with the first end of the tube made open, and the second end made closed with an annular shoulder; with at least one window in the stem generatrix; where the valve element is installed on the stem and able to slide along thereof, having a central opening with an annular recess designed such that it can engage with the annular shoulder of the stem and the annular shoulder on the exterior surface made such that it can engage with the valve element; and the spring is installed between the valve element and the annular nut; and the cover is made in the form of a mushroom and connected to the annular nut using a threaded connection intended for direct installation of the valve construction on a keg neck; openings for gas flow are provided at the bottom of the annular nut; an annular gasket is provided between the flange and cylindrical surface of the mushroom leg of the cover to seal off the connection of the cover with the neck of a PET keg; the valve element is made such that it can function both as a relief valve and as an actuation indicator made of polymeric material with 40-60 Shore hardness. The invention ensures high reliability and leakproofness of the valve construction functioning at the same time as a relief valve if overpressure in a PET keg is above the maximum permissible value.

IPC 8 full level
B67D 1/08 (2006.01); **B67D 1/12** (2006.01)

CPC (source: EP)
B67D 1/0832 (2013.01); **B67D 1/0845** (2013.01); **B67D 1/125** (2013.01)

Citation (search report)
• [Y] EP 0890545 A1 19990113 - LEER KONINKLIJKE EMBALLAGE [NL]
• [Y] EP 0056295 A1 19820721 - ALUMASC LTD [GB]
• [Y] EP 1037850 A1 20000927 - MICRO MATIC AS [DK]
• [A] WO 2015004429 A1 20150115 - CYPHERCO LTD [GB]
• See references of WO 2018056870A1

Cited by
RU187723U1; EP3950571A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3348517 A1 20180718; EP 3348517 A4 20190522; EP 3348517 B1 20200415; EA 033500 B1 20191031; EA 201800194 A1 20180928; RU 2640988 C1 20180112; UA 122909 C2 20210120; WO 2018056870 A1 20180329

DOCDB simple family (application)
EP 17853533 A 20171002; EA 201800194 A 20171002; RU 2016137883 A 20160922; RU 2017000726 W 20171002; UA A201803353 A 20171002