

Title (en)
VALVE FOR FILLING PACKAGES WITH LIQUIDS

Title (de)
VENTIL ZUM ABFÜLLEN VON FLÜSSIGKEITEN IN VERPACKUNGEN

Title (fr)
SOUPAPE POUR LE REMPLISSAGE D'EMBALLAGES AVEC DES LIQUIDES

Publication
EP 0754144 A1 19970122 (DE)

Application
EP 95911305 A 19950307

Priority
• DE 4411629 A 19940402
• EP 9500838 W 19950307

Abstract (en)
[origin: WO9526906A1] A valve for filling packages with liquids has a housing (1) with inlet stubs (24), a frontal nozzle and an outlet device (16) having a plurality of outlet holes (4). A plug (3) is fitted movably in the housing (1) and can be engaged with a valve seat (23). There are also rear sealing devices (5, 7, 22). In order nevertheless to obtain a great volume flow of the liquid to be filled at a low discharge rate without any relative movement between the package and the outlet device (16), according to the invention the outlet holes (4) are made over the whole of the cross-sectional area of the nozzle (2) in an outlet plate (16), passing through it towards the longitudinal axis (28) of the nozzle (2), said plate (16) being in one piece with the nozzle (2), the diameter or width of the outlet holes (4) is larger than 1 mm and smaller than 5 mm and the length of the outlet holes (4) is greater than double their diameter or width.

IPC 1-7
B65B 39/00; **B67C 3/26**

IPC 8 full level
B65B 39/00 (2006.01); **B67C 3/28** (2006.01); **B67C 3/26** (2006.01)

CPC (source: EP US)
B65B 39/004 (2013.01 - EP US); **B67C 3/004** (2013.01 - EP US); **B67C 3/281** (2013.01 - EP US); **B65B 2039/008** (2013.01 - EP US); **B67C 2003/2645** (2013.01 - EP US); **B67C 2003/2671** (2013.01 - EP US)

Citation (search report)
See references of WO 9526906A1

Cited by
DE102010006005A1; WO2011092188A1; US10472218B2; WO2015074803A1; US9926088B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9526906 A1 19951012; AT E188661 T1 20000115; AU 1893595 A 19951023; DE 4411629 A1 19951102; DE 59507616 D1 20000217; EP 0754144 A1 19970122; EP 0754144 B1 20000112; ES 2140666 T3 20000301; US 5865221 A 19990202

DOCDB simple family (application)
EP 9500838 W 19950307; AT 95911305 T 19950307; AU 1893595 A 19950307; DE 4411629 A 19940402; DE 59507616 T 19950307; EP 95911305 A 19950307; ES 95911305 T 19950307; US 71642596 A 19960920