

Title (en)  
CARTRIDGE HAVING A PLUG

Title (de)  
KARTUSCHE MIT VERSCHLUSSSTOPFEN

Title (fr)  
CARTOUCHE AVEC BOUCHON DE FERMETURE

Publication  
**EP 2512933 A1 20121024 (DE)**

Application  
**EP 10794970 A 20101215**

Priority  
• EP 09179483 A 20091216  
• EP 2010069745 W 20101215  
• EP 10794970 A 20101215

Abstract (en)  
[origin: WO2011073251A1] The invention relates to a method for producing a cartridge (1), wherein a reservoir (5, 6, 7) for receiving a filling material (8, 9, 15), a neck (2) having an outlet channel (11, 12) for the filling material (8, 9, 15), and a sealing plug (20) are produced in an injection molding process in a first step. An outlet opening (10, 14) is disposed at one end (16, 17) of the outlet channel (11, 12). The outlet opening (10, 14) is at least partially closed off by means of an arm (21, 22) of the sealing plug (20). A first end (23, 24) of the arm (21, 22) is connected to the neck (2) by means of a bridge element (18, 19). A predetermined breaking point is implemented by the bridge element (18, 19), at which the sealing plug (20) is integrally connected to the cartridge (1). The sealing plug (20) has a second end (26) that can be manipulated in a second, subsequent step, so that the bridge element (18, 19) separates from the filling material (8, 9, 15) prior to the filling of the cartridge (1), and then the arm (21, 22) is inserted in the outlet opening (10, 14), in order to close off the outlet opening (10, 14).

IPC 8 full level  
**B65D 1/02** (2006.01); **B29C 45/00** (2006.01); **B65B 3/18** (2006.01); **B65D 81/32** (2006.01)

CPC (source: EP KR US)  
**B29C 45/00** (2013.01 - KR); **B29C 45/0081** (2013.01 - EP US); **B65B 3/18** (2013.01 - KR); **B65D 1/02** (2013.01 - KR); **B65D 1/0238** (2013.01 - EP US); **B65D 81/32** (2013.01 - KR); **B65D 81/325** (2013.01 - EP US); **B29L 2023/20** (2013.01 - EP US); **B29L 2031/715** (2013.01 - EP US); **Y10T 29/49792** (2015.01 - EP US)

Citation (search report)  
See references of WO 2011073251A1

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

DOCDB simple family (publication)  
**WO 2011073251 A1 20110623**; CN 102781785 A 20121114; EP 2512933 A1 20121024; KR 20120092671 A 20120821; TW 201138983 A 20111116; US 2012248058 A1 20121004

DOCDB simple family (application)  
**EP 2010069745 W 20101215**; CN 201080057320 A 20101215; EP 10794970 A 20101215; KR 20127015422 A 20101215; TW 99143482 A 20101213; US 201013515612 A 20101215