

Title (en)
FLAT SELF-OPENING CLOSURE FOR COMPOSITE PACKAGINGS OR FOR CONTAINER NOZZLES OR BOTTLE NECKS TO BE CLOSED BY FILM MATERIAL

Title (de)
FLACHER SELBSTÖFFNER-VERSCHLUSS FÜR VERBUNDPACKUNGEN ODER FÜR MIT FOLIENMATERIAL ZU VERSCHLIESSENDE BEHÄLTER- ODER FLASCHENSTUTZEN

Title (fr)
ELEMENT DE FERMETURE PLAT A OUVERTURE AUTOMATIQUE POUR EMBALLAGES COMPOSITES OU POUR TUBULURES DE RECIPIENT OU DE BOUTEILLE A REFERMER PAR UN FILM DE MATIERE

Publication
EP 1812298 A1 20070801 (DE)

Application
EP 05798732 A 20051104

Priority
• CH 2005000644 W 20051104
• CH 18752004 A 20041115

Abstract (en)
[origin: WO2006050624A1] The self-opening closure comprises a pouring spout (3), a screw cap (1) and a self-opening cylinder (2) which is disposed inside the pouring spout (3) and can be set rotating by the screw cap (1). The self-opening cylinder (2), on its lower rim and protruding therefrom, comprises three combined piercing and cutting elements (5, 6, 7). These elements are disposed on two opposite positions on the periphery and in a position between the two. The interior of the self-opening cylinder (2) is provided with three nail-type integrally molded elements (9, 10, 11) which are evenly distributed across the periphery and extend towards the center of the cylinder and have a nail shank (12) and a nail head (13). The nail shank (12) and the bottom side of the nail head of every integrally molded element acts as a guide for one of the three cylinder wall segments that are located on the interior of the cap concentrically to the axis of rotation of the cap. The screw cap (1), on its lower rim (25), is connected to a flat retaining element (21) via at least two material bridges (22, 23, 24) that extend non-radially in relation thereto and that are configured as predetermined breaking points. Said retaining element can engage with the flange (20) of the pouring spout (3) in a horizontal position by means of pins.

IPC 8 full level
B65D 5/74 (2006.01); **B65D 51/22** (2006.01)

CPC (source: EP KR US)
B65D 5/74 (2013.01 - KR); **B65D 5/748** (2013.01 - EP US); **B65D 51/22** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2006050624A1

Cited by
WO2021018998A1; WO2017207367A1; WO2017202494A1; DE102022208931A1; US10676261B2; US11718457B2; DE102017212142A1; WO2019020399A1; US12115763B2; DE102016213838A1; WO2018019834A1; DE102017215078A1; WO2019042942A1

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