

Title (en)  
OPENING/CLOSING DEVICE FOR A CONTAINER FOR POURABLE PRODUCTS

Title (de)  
VORRICHTUNG ZUM ÖFFNEN/SCHLIESSEN EINES BEHÄLTERS FÜR GIESSFÄHIGE PRODUKTE

Title (fr)  
DISPOSITIF D'OUVERTURE/ FERMETURE POUR UN RÉCIPIENT POUR PRODUITS POUVANT ÊTRE VERSÉS

Publication  
**EP 4253268 A2 20231004 (EN)**

Application  
**EP 23187574 A 20191126**

Priority  
• IT 201800010569 A 20181126  
• EP 19812738 A 20191126  
• EP 2019082528 W 20191126

Abstract (en)  
Opening/closing device (1) for a container (100) for pourable products, having at least one perforable portion (101), said opening/closing device comprising a collar (2) combinable with said container at said perforable portion, a cap (3) constrainedly movable by first guiding means (40), which are interposed between said cap (3) and said collar (2), on the outer surface (2a) of said collar (2), and a cutting element (5) constrainedly movable by second guiding means (60), which are interposed between said cutting element (5) and said collar (2), inside said collar (4) for severing said perforable portion, said device (1) further comprising pushing means (7) for said cutting element (5), which are actuated by said cap (3) during at least its first displacement on said outer surface (2a) of said collar (2), for promoting the displacement inside said collar of said at least one cutting element in the direction of said perforable portion, wherein said cap (3) is provided with at least one through hole (32) for pouring said pourable product and with at least one lid (10) integrally constrained to said cap and adapted to seal, or open, the passage of said at least one through hole (32), said first guiding means (40) only rotatably constraining said cap (3) to said collar (2), characterized further comprising means (11) for limiting the rotation of said cap with respect to the outer surface (2a) of said collar (2) between a first assembled position (P1) for said opening/closing device and a second locked position (P2) of said cap (3) on said collar (2), and in that by comprising a retaining ring (80) integrally constrained at the lower end of said cap by a plurality of frangible bridges, said frangible bridges being severed at least when said cap is displaced from said first assembled position

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

CPC (source: EP US)  
**B65D 5/747** (2013.01 - US); **B65D 5/748** (2013.01 - EP); **B65D 41/3428** (2013.01 - US); **B65D 51/222** (2013.01 - US); **B65D 2251/0025** (2013.01 - EP US); **B65D 2251/0093** (2013.01 - EP US)

Citation (applicant)  
• WO 9505996 A1 19950302 - INT PAPER CO [US]  
• DE 102010028518 A1 20111110 - BOSCH GMBH ROBERT [DE]

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 validation state (EPC)  
MA

DOCDB simple family (publication)  
**WO 2020109282 A1 20200604; WO 2020109282 A9 20200723**; BR 112021009987 A2 20210817; CN 113165771 A 20210723; EP 3887270 A1 20211006; EP 3887270 B1 20230906; EP 3887270 C0 20230906; EP 4253268 A2 20231004; EP 4253268 A3 20231129; IT 201800010569 A1 20200526; MA 54281 A 20220302; MX 2021006083 A 20210923; US 2021394953 A1 20211223

DOCDB simple family (application)  
**EP 2019082528 W 20191126**; BR 112021009987 A 20191126; CN 201980076567 A 20191126; EP 19812738 A 20191126; EP 23187574 A 20191126; IT 201800010569 A 20181126; MA 54281 A 20191126; MX 2021006083 A 20191126; US 201917296470 A 20191126