

Title (en)

RECLOSABLE POUR ELEMENT FOR CARDBOARD/PLASTIC COMPOSITE PACKAGING WITH AN ANCHOR RING FOR SECURELY ATTACHING A SCREW CAP

Title (de)

WIEDERVERSCHLIESSBARES AUSGIESSELEMENT FÜR KARTON/KUNSTSTOFF-VERBUNDPACKUNGEN MIT EINEM ANKERRING ZUR SICHEREN ANBINDUNG EINES SCHRAUBDECKELS

Title (fr)

ÉLÉMENT VERSEUR REFERMABLE POUR EMBALLAGE COMPOSITE CARTON/PLASTIQUE DOTÉ D'UNE BAGUE D'ANCRAGE POUR FIXER SOLIDEMENT UN BOUCHON À VIS

Publication

EP 4065483 B1 20230927 (DE)

Application

EP 20812302 A 20201125

Priority

- DE 102019132541 A 20191129
- DE 102020106661 A 20200311
- EP 2020083309 W 20201125

Abstract (en)

[origin: WO2021105176A1] The invention relates to a reclosable pour element for cardboard/plastic composite packaging (P), in particular a beverage packaging, comprising a base element (2, 2', 2'') which has a circumferential securing flange (1, 1', 1'') and an outer thread (10, 10'); opening means arranged in the interior of the base element (2, 2', 2'') at least in the unopened state of the pour element; and a screw cap (3, 3', 3'') with an inner thread, wherein the opening means is designed such that when the composite packaging (P) is first opened, a pour opening is produced within the pour element upon unscrewing the screw cap (3, 3', 3'') by breaking open the composite material of the packaging (P) or a barrier layer located in the base element (2, 2', 2''). In order to ensure the attachment of the screw cap to the pour element when using such a reclosable pour element even when the screw cap is screwed off, an anchor ring (4, 4', 4'') which is rotationally fixed to the screw cap (3, 3', 3'') is arranged below same, said anchor ring being freely rotatable radially about the base element (2, 2', 2'') and connected to the base element (2, 2', 2'') in a tension-resistant manner in the axial direction, and the anchor ring (4, 4', 4'') is connected to the screw cap (3, 3', 3'') in an articulated manner via a hinge element (5, 5'), the pivot axis of which is oriented tangentially to the outer circumference of the screw cap (3, 3', 3''), in order to securely attach the screw cap (3, 3', 3'') to the base element (2, 2', 2'') even when the screw cap is screwed off.

IPC 8 full level

B65D 5/74 (2006.01); **B65D 55/16** (2006.01)

CPC (source: EP US)

B65D 5/749 (2013.01 - EP US); **B65D 41/3447** (2013.01 - US); **B65D 55/024** (2013.01 - EP); **B65D 55/16** (2013.01 - EP US); **B65D 2251/1008** (2013.01 - EP US); **B65D 2401/30** (2020.05 - EP)

Citation (examination)

- EP 2308772 B1 20120509 - CROWN CORK JAPAN [JP]
- DE 102019132541 B3 20201105 - SIG TECHNOLOGY AG [CH]

Cited by

EP4166473A1; EP4166472A1

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 2021105176 A1 20210603; BR 112022010291 A2 20220816; CN 114746343 A 20220712; EP 4065483 A1 20221005; EP 4065483 B1 20230927; EP 4065483 B9 20231227; EP 4065483 C0 20230927; EP 4282774 A2 20231129; EP 4282774 A3 20240306; ES 2964001 T3 20240403; JP 2023507896 A 20230228; MX 2022006055 A 20220624; PL 4065483 T3 20240212; SA 522432761 B1 20231011; US 2023025075 A1 20230126

DOCDB simple family (application)

EP 2020083309 W 20201125; BR 112022010291 A 20201125; CN 202080083146 A 20201125; EP 20812302 A 20201125; EP 23199205 A 20201125; ES 20812302 T 20201125; JP 2022531400 A 20201125; MX 2022006055 A 20201125; PL 20812302 T 20201125; SA 522432761 A 20220529; US 202017780904 A 20201125