Title (en)

CONTAMINATION-FREE, FLEXIBLE CLOSURE SYSTEM FOR USE ON AT LEAST PARTIALLY FLEXIBLE CONTAINERS

Title (de)

KONTAMINATIONSFREIES, FLEXIBLES VERSCHLUSSSYSTEM ZUR VERWENDUNG AN MINDESTENS TEILWEISE FLEXIBLEN GEBINDEN

Title (fr)

SYSTÈME DE FERMETURE SOUPLE SANS CONTAMINATION DESTINÉ À ÊTRE UTILISÉ SUR DES EMBALLAGES AU MOINS PARTIELLEMENT SOUPLES

Publication

EP 2941388 A1 20151111 (DE)

Application

EP 14700331 A 20140102

Priority

- DE 102013000011 A 20130102
- EP 2014050013 W 20140102

Abstract (en)

[origin: CA2894274A1] The invention relates to a closure (10, 20) having two profiled strips (11, 12; 21, 22) for an at least partially flexible container (1, 2) for connecting a first container (1) to a second container (2) in an environmentally sealed manner and in a closed docking position, and for conducting a flow in a flow direction (D) through the closure (10, 20) from the first container (1) into the second container (2) in an environmentally sealed manner and in an open docking position. The second container (2) has an identical closure (10, 20) which faces the first container (1) and which, in the open docking position, is in engagement with the closure (10, 20) of the first container (1), and together with the closure (10, 20) of the first container (1) defines a flow channel (3) for the throughflow in the flow direction (D). A substantial advantage of the invention is that the closures (10, 20) can be docked to each other and opened jointly in a single step by a separate slider. A further substantial advantage of the invention is that due to the dual functional nature of all the closure elements no closure element (13, 14; 23, 24) is exposed in the channel-upward direction to the material to be transferred during the transfer of material. The invention further relates to a slider (30) for connecting and separating such closures (10, 20), comprising an insertion side (31), on which the closures (10, 20) can be inserted into the slider (30) in insertion directions (A, B), which form an acute angle, and an output side (32) opposite the insertion side (31), on which the closures (10, 20), which are connected to each other and are open, can be led out from the slider (30) in a common slide direction (C).

IPC 8 full level

B65D 33/25 (2006.01); **B65D 33/00** (2006.01)

CPC (source: EP US)

B65D 33/00 (2013.01 - EP US); **B65D 33/2541** (2013.01 - EP US); **B65D 33/2566** (2013.01 - US); Y10T 24/158 (2015.01 - EP US)

Citation (search report)

See references of WO 2014106632A1

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 extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102013000011 A1 20140703; AU 2014204347 A1 20150604; BR 112015015676 A2 20170711; CA 2894274 A1 20140710; CN 104903204 A 20150909; CN 104903204 B 20170524; EP 2941388 A1 20151111; EP 2941388 B1 20181010; JP 2016501796 A 20160121; JP 6404830 B2 20181017; KR 20150103167 A 20150909; MX 2015008604 A 20150904; RU 2015128607 A 20170208; SG 11201504100P A 20150730; US 10124931 B2 20181113; US 2015314922 A1 20151105; WO 2014106632 A1 20140710

DOCDB simple family (application)

DE 102013000011 A 20130102; AU 2014204347 A 20140102; BR 112015015676 A 20140102; CA 2894274 A 20140102; CN 201480004020 A 20140102; EP 14700331 A 20140102; EP 2014050013 W 20140102; JP 2015550116 A 20140102; KR 20157020473 A 20140102; MX 2015008604 A 20140102; RU 2015128607 A 20140102; SG 11201504100P A 20140102; US 201414648753 A 20140102