

Title (en)  
METHODS AND SYSTEMS FOR DISPENSING A COMPOSITION

Title (de)  
VERFAHREN UND SYSTEME ZUR AUSGABE EINER ZUSAMMENSETZUNG

Title (fr)  
PROCÉDÉS ET SYSTÈMES DE DISTRIBUTION D'UNE COMPOSITION

Publication  
**EP 3145813 B1 20210407 (EN)**

Application  
**EP 15729281 A 20150521**

Priority

- US 201462001277 P 20140521
- US 2015031870 W 20150521

Abstract (en)  
[origin: WO2015179584A1] The present disclosure relates to methods, and corresponding systems, for filling cavities (110, 111, 112) with a composition (300) into said cavities (110, 111, 112) of a web (100) that continuously moves in a machine direction (MD), said method comprising the steps of: providing a web (100) comprising a water-soluble film, typically disposed on a continuously moveable surface (116) in a machine direction (MD), said web (100) comprising at least two thermoformable cavities (110, 111, 112) aligned in said machine direction (MD); providing a filling apparatus (200) comprising at least two nozzles (210, 211, 212) aligned in said machine direction (MD), positioned to dispense a household care composition (300), into said cavities (210, 211, 212); dispensing said composition (300) from said at least two nozzles (210, 211, 212) into said at least two cavities (110, 111, 112) while said at least two nozzles (210, 211, 212) move from a first position (FP) to a second position (SP); and returning said at least two nozzles (210, 211, 212) to said first position (FP).

IPC 8 full level  
**B65B 3/02** (2006.01); **B65B 9/04** (2006.01); **B65B 37/00** (2006.01); **B65B 39/14** (2006.01); **B65B 47/02** (2006.01); **B65B 61/06** (2006.01); **C11D 17/04** (2006.01)

CPC (source: CN EP US)  
**B65B 3/022** (2013.01 - EP US); **B65B 3/04** (2013.01 - CN); **B65B 9/042** (2013.01 - EP US); **B65B 37/00** (2013.01 - EP US); **B65B 39/12** (2013.01 - CN); **B65B 39/14** (2013.01 - EP US); **B65B 39/145** (2013.01 - EP US); **B65B 47/02** (2013.01 - EP US); **B65B 61/06** (2013.01 - EP US); **C11D 17/042** (2013.01 - EP US); **B65B 2009/047** (2013.01 - EP US); **B65B 2220/14** (2013.01 - EP US); **B65B 2220/22** (2013.01 - EP US)

Citation (examination)

- WO 2014170882 A1 20141023 - RIDEAU MACHINERY INC [US]
- EP 2088187 A1 20090812 - PROCTER & GAMBLE [US]

Citation (opposition)  
Opponent : Henkel AG & Co. KGaA

- US 2012139139 A1 20120607 - CATLIN TANGUY MARIE LOUIS ALEXANDRE [BE], et al
- US 2013219827 A1 20130829 - PALLOTTA SHAWN CHRISTOPHER [US], et al
- DE 2119866 A1 19721116
- WO 2013126760 A2 20130829 - EMERSON REEM A [US], et al
- US 3218776 A 19651123 - CLOUD CHARLES E
- ORICSINDUSTRIESINC: "ORICS CMTS-1000 Continuous Motion Tray filling Sealing machine ready meals", YOUTUBE, 31 May 2012 (2012-05-31), XP055890704, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=2uRhQwJTprs>

Opponent : Kramer Barske Schmidtchen Patentanwälte PartG mbB

- US 2012139139 A1 20120607 - CATLIN TANGUY MARIE LOUIS ALEXANDRE [BE], et al
- US 2013219827 A1 20130829 - PALLOTTA SHAWN CHRISTOPHER [US], et al
- EP 1755955 A1 20070228 - EVIFILL S R L [IT]
- US 2757844 A 19560807 - LOUIS GREISSMAN
- US 6145552 A 20001114 - PRICE RICHARD T [US], et al
- EP 1840033 A2 20071003 - UNITED BISCUITS LTD [GB]
- EP 2088187 A1 20090812 - PROCTER & GAMBLE [US]
- US 2014054831 A1 20140227 - EMERSON REEM A [US], et al
- US 3218776 A 19651123 - CLOUD CHARLES E
- US 7797912 B2 20100921 - HAMMOND GEOFFREY ROBERT [GB], et al
- WO 9959874 A1 19991125 - ARCADE INC [US]
- US 2014124990 A1 20140508 - FOWLER JAMES [US], et al
- WO 2013190517 A2 20131227 - RIDEAU MACHINERY INC [US]
- US 2002169092 A1 20021114 - ALEXANDRE CATLIN TANGUY MARIE [BE], et al

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 2015179584 A1 20151126**; CN 106163928 A 20161123; EP 3145813 A1 20170329; EP 3145813 B1 20210407; ES 2870424 T3 20211027; HU E054541 T2 20210928; JP 2017515761 A 20170615; JP 6396500 B2 20180926; US 2015336692 A1 20151126

DOCDB simple family (application)  
**US 2015031870 W 20150521**; CN 201580019233 A 20150521; EP 15729281 A 20150521; ES 15729281 T 20150521; HU E15729281 A 20150521; JP 2016567250 A 20150521; US 201514718139 A 20150521