

Title (en)  
PACKAGING MATERIAL WITH A BARRIER LAYER

Title (de)  
VERPACKUNGSMATERIAL MIT WASSERBASIERTER BARRIERESCHICHT

Title (fr)  
MATIÈRE D'EMBALLAGE DOTÉ D'UNE COUCHE BARRIÈRE À BASE D'EAU

Publication  
**EP 3943661 A1 20220126 (DE)**

Application  
**EP 20186744 A 20200720**

Priority  
EP 20186744 A 20200720

Abstract (en)  
[origin: JP2022020609A] To provide a method of producing a packaging material having a functional layer on a substrate using a casting process to coat the substrate.SOLUTION: A manufacture of a packaging material having at least one functional layer in which a water-based multilayer curtain is formed, the curtain to a substrate is applied, the outer layer of the curtain which comes into contact with air during casting includes surface activation additive, and the difference in a surface tension between the two outer layers of the curtain and the adjacent one or plurality of inner layers is at least 5 mN/m is described.SELECTED DRAWING: None

Abstract (de)  
Beschrieben wird die Herstellung eines Verpackungsmaterials mit wenigstens einer Funktionsschicht, umfassend das Ausbilden eines mehrschichtigen Vorhangs auf wässriger Basis und das Aufbringen dieses Vorhangs auf ein Substrat, wobei die äußeren mit der Luft während des Gießens in Kontakt tretenden Schichten des Vorhangs oberflächenaktive Additive enthalten, die Differenz der Oberflächenspannung zwischen den beiden äußeren Schichten und der/den angrenzenden inneren Schichten des Vorhangs wenigstens 5 mN/m beträgt.

IPC 8 full level  
**D21H 19/82** (2006.01); **B05C 5/00** (2006.01); **B05D 1/30** (2006.01); **D21H 23/48** (2006.01); **D21H 27/10** (2006.01)

CPC (source: EP)  
**D21H 19/82** (2013.01); **D21H 23/48** (2013.01); **D21H 27/10** (2013.01); **B05C 5/005** (2013.01); **B05D 1/305** (2013.01)

Citation (applicant)  
• EP 1416087 B1 20100929 - DOW GLOBAL TECHNOLOGIES INC [US]  
• EP 1666637 A1 20060607 - SAKATA INX CORP [JP]  
• EP 1395705 B1 20110525 - DOW GLOBAL TECHNOLOGIES LLC [US]  
• EP 1255615 B1 20090415 - TETRA LAVAL HOLDINGS & FINANCE [CH]

Citation (search report)  
• [XDY] EP 1416087 B1 20100929 - DOW GLOBAL TECHNOLOGIES INC [US]  
• [Y] JP 2016203400 A 20161208 - OSAKA SEALING LABEL PRINT  
• [Y] US 3508947 A 19700428 - HUGHES DONALD J  
• [Y] JP 2004181459 A 20040702 - KONICA MINOLTA HOLDINGS INC  
• [Y] EP 1236518 A2 20020904 - FUJI PHOTO FILM CO LTD [JP]  
• [Y] JP 2012197545 A 20121018 - JUJO PAPER CO LTD  
• [XD] EP 1395705 B1 20110525 - DOW GLOBAL TECHNOLOGIES LLC [US]  
• [XD] EP 1255615 B1 20090415 - TETRA LAVAL HOLDINGS & FINANCE [CH]

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

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DOCDB simple family (application)  
**EP 20186744 A 20200720**; JP 2021119954 A 20210720