

Title (en)
MULTILAYER FILM COMPRISING MICROFIBRILLATED CELLULOSE

Title (de)
MEHRSCHICHTIGE FOLIE MIT MIKROFIBRILLIERTER CELLULOSE

Title (fr)
FILM MULTICOUCHE COMPRENANT DE LA CELLULOSE MICROFIBRILLÉE

Publication
EP 3727849 A1 20201028 (EN)

Application
EP 18847151 A 20181221

Priority
• SE 1751637 A 20171222
• IB 2018060496 W 20181221

Abstract (en)
[origin: WO2019123405A1] The invention relates to a multilayer, oxygen barrier film comprising: - a first layer (1) comprising at least 80 % by weight of microfibrillated cellulose (MFC) as calculated on the total solid content of said layer, - a second layer (2) comprising a polymer and optionally pigments, and - a third layer (3) comprising at least 40 %, preferably at least 50 %, by weight of chemically modified microfibrillated cellulose as calculated on the total solid content of said layer. The multilayer film of the invention has shown to provide excellent and stable gas barrier properties, especially oxygen barrier properties, also at high humidity as well as good strength properties.

IPC 8 full level
B32B 23/02 (2006.01); **B32B 5/02** (2006.01); **B32B 23/08** (2006.01); **B32B 27/06** (2006.01); **B32B 27/10** (2006.01); **B32B 27/20** (2006.01); **B32B 27/30** (2006.01); **B32B 27/32** (2006.01); **B65D 65/40** (2006.01); **D21H 11/18** (2006.01)

CPC (source: EP SE)
B32B 5/02 (2013.01 - EP); **B32B 23/08** (2013.01 - EP); **B32B 27/06** (2013.01 - EP); **B32B 27/08** (2013.01 - SE); **B32B 27/10** (2013.01 - EP SE); **B32B 27/20** (2013.01 - EP); **B32B 27/306** (2013.01 - EP); **B32B 27/32** (2013.01 - EP); **B32B 29/00** (2013.01 - SE); **B82Y 30/00** (2013.01 - SE); **C08J 5/18** (2013.01 - SE); **C08L 1/02** (2013.01 - SE); **D21H 11/18** (2013.01 - EP SE); **D21H 19/34** (2013.01 - EP); **D21H 19/82** (2013.01 - EP); **B32B 2262/062** (2013.01 - EP); **B32B 2307/7244** (2013.01 - EP SE); **B32B 2307/7246** (2013.01 - EP); **B32B 2439/70** (2013.01 - EP); **B65D 5/563** (2013.01 - EP)

Citation (search report)
See references of WO 2019123405A1

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)
WO 2019123405 A1 20190627; EP 3727849 A1 20201028; JP 2021507830 A 20210225; SE 1751637 A1 20190623; SE 542054 C2 20200218

DOCDB simple family (application)
IB 2018060496 W 20181221; EP 18847151 A 20181221; JP 2020533700 A 20181221; SE 1751637 A 20171222