

Title (en)

PRODUCTION OF A FLEXIBLE, GAS-TIGHT, AND TRANSPARENT COMPOSITE FILM

Title (de)

HERSTELLUNG EINER FLEXIBLEN, GASDICHTEN UND TRANSPARENTEN VERBUNDFOLIE

Title (fr)

FABRICATION D'UNE FEUILLE COMPOSITE FLEXIBLE, ÉTANCHE AU GAZ ET TRANSPARENTE

Publication

EP 2076389 A1 20090708 (DE)

Application

EP 07820836 A 20071002

Priority

- EP 2007060454 W 20071002
- DE 102006046961 A 20061004

Abstract (en)

[origin: WO2008040730A1] The invention relates to a method for the production of a flexible, gas-tight, and transparent composite film, comprising a transparent carrier layer made of plastic and a glass-like layer. The method comprises the following steps: a) a temperature-resistant substrate is coated with a lacquer comprising glass or glass-forming pre-stages by a wet chemical process, b) the coating is thermally compressed to form the glass-like layer, c) the transparent carrier layer made of plastic is applied onto the glass-like layer and bonded thereto, and d) the composite of the carrier layer and the glass-like layer is separated from the substrate. The composite films obtained in this way are suitable as encapsulation material or packing material, particularly for the use in displays, illumination and photovoltaics, for example for light-emitting diodes, solar cells, displays, or electronic circuits.

IPC 8 full level

B32B 37/15 (2006.01); **B32B 37/26** (2006.01)

CPC (source: EP US)

B32B 17/06 (2013.01 - EP US); **B32B 37/15** (2013.01 - EP US); **B32B 37/26** (2013.01 - EP US); **B32B 2305/80** (2013.01 - EP US); **B32B 2307/412** (2013.01 - EP US); **B32B 2315/08** (2013.01 - EP US); **B32B 2553/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2008040730A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006046961 A1 20080410; EP 2076389 A1 20090708; US 2010203308 A1 20100812; WO 2008040730 A1 20080410

DOCDB simple family (application)

DE 102006046961 A 20061004; EP 07820836 A 20071002; EP 2007060454 W 20071002; US 31156307 A 20071002