

Title (en)
FLEXIBLE MULTI-LAYER MATERIAL, PREFERABLY FOR AN INFLATABLE BALLOON CASING, AND METHOD FOR THE PRODUCTION OF AN INFLATABLE CASING

Title (de)
FLEXIBLES MEHRSCHICHTIGES MATERIAL, VORZUGSWEISE FÜR EINE AUFBLASBARE BALLONHÜLLE, SOWIE EIN VERFAHREN ZUR HERSTELLUNG EINER AUFBLASBAREN HÜLLE

Title (fr)
MATIÈRE MULTICOUCHE SOUPLE, DE PRÉFÉRENCE POUR UNE ENVELOPPE DE BALLON GONFLABLE, ET PROCÉDÉ POUR PRODUIRE UNE ENVELOPPE GONFLABLE

Publication
EP 2142365 A2 20100113 (DE)

Application
EP 08749127 A 20080425

Priority
• EP 2008003347 W 20080425
• CH 7022007 A 20070428

Abstract (en)
[origin: WO2008131916A2] The invention relates to a flexible multi-layer material that can be used in particular for an inflatable balloon casing, a blimp, an airbag, a sail, a flexible solar cell, or a flexible antenna. At least one layer (11, 13) is provided, which is particularly made of ultra high molecular weight polyethylene (UHMWPE), or of ultra high molecular weight polypropylene (UHMWPP). The same is surrounded on each of the two sides by a layer, or a film (10, 12; 12, 14) made of polyethylene or polypropylene, and connected thereto, wherein the layers, or films (10-14) placed on top of each other can be connected to each other by means of heating. Such a material layer is lightweight and has high stability, or tear resistance, and a high modulus of elasticity.

IPC 8 full level
B32B 5/02 (2006.01); **B32B 27/02** (2006.01); **B32B 27/12** (2006.01); **B64B 1/14** (2006.01); **B64B 1/58** (2006.01)

CPC (source: EP KR US)
B32B 5/02 (2013.01 - EP KR US); **B32B 15/08** (2013.01 - KR); **B32B 27/12** (2013.01 - EP KR US); **B32B 27/304** (2013.01 - EP US); **B32B 27/306** (2013.01 - EP US); **B32B 27/34** (2013.01 - EP US); **B64B 1/14** (2013.01 - EP US); **B32B 2255/10** (2013.01 - EP US); **B32B 2255/205** (2013.01 - EP US); **B32B 2255/26** (2013.01 - EP US); **B32B 2262/0253** (2013.01 - EP US); **B32B 2307/71** (2013.01 - EP US); **B32B 2457/10** (2013.01 - EP US); **B32B 2605/00** (2013.01 - EP US); **B60R 2021/23523** (2013.01 - EP US); **B82Y 99/00** (2013.01 - KR); **Y10T 428/1338** (2015.01 - EP US); **Y10T 428/31504** (2015.04 - EP US); **Y10T 428/31757** (2015.04 - EP US); **Y10T 428/31913** (2015.04 - EP US); **Y10T 428/31938** (2015.04 - EP US)

Citation (search report)
See references of WO 2008131916A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008131916 A2 20081106; **WO 2008131916 A3 20090212**; AU 2008243333 A1 20081106; CA 2685360 A1 20081106; CN 101711200 A 20100519; CN 101711200 B 20141203; EG 25963 A 20121113; EP 2142365 A2 20100113; IL 201616 A0 20100531; JP 2010524734 A 20100722; JP 5645656 B2 20141224; KR 20100085831 A 20100729; MX 2009011477 A 20100322; RU 2009144102 A 20110610; UA 102997 C2 20130910; US 2010239797 A1 20100923; ZA 200907512 B 20100825

DOCDB simple family (application)
EP 2008003347 W 20080425; AU 2008243333 A 20080425; CA 2685360 A 20080425; CN 200880013990 A 20080425; EG 2009101582 A 20091020; EP 08749127 A 20080425; IL 20161609 A 20091019; JP 2010504554 A 20080425; KR 20097023498 A 20080425; MX 2009011477 A 20080425; RU 2009144102 A 20080425; UA A200910858 A 20080425; US 59754508 A 20080425; ZA 200907512 A 20091026