

Title (en)  
PRODUCTION OF NON-WOVEN MATERIALS FROM POLYHYDROXYALKANOATE

Title (de)  
HERSTELLUNG VON VLIESMATERIALIEN AUS POLYHYDROXYALKANOAT

Title (fr)  
PRODUCTION DE MATÉRIAUX NON TISSÉS À PARTIR DE POLYHYDROXYALCANOATE

Publication  
**EP 2379618 A1 20111026 (EN)**

Application  
**EP 09796908 A 20091223**

Priority

- US 2009069444 W 20091223
- US 20354208 P 20081223
- US 2009041023 W 20090417

Abstract (en)  
[origin: WO2010075530A1] Methods and compositions for making non-woven materials from polyhydroxyalkanoate polymers are provided. In certain aspects, the invention pertains to an extruded fiber comprising a polyhydroxyalkanoate polymer, a wet milled nucleating agent and a plasticizer, wherein the average particle size of the wet-milled nucleating agent is about 20 microns and is dispersed in the polymer.

IPC 8 full level  
**C08G 63/00** (2006.01); **C08L 67/02** (2006.01); **D04H 3/00** (2006.01)

CPC (source: EP)  
**C08L 67/04** (2013.01); **D01F 1/10** (2013.01); **D01F 6/625** (2013.01); **D01F 6/84** (2013.01); **C08K 3/38** (2013.01); **C08K 5/0016** (2013.01); **C08K 5/11** (2013.01)

C-Set (source: EP)  
**C08L 67/04 + C08L 2666/18**

Citation (search report)  
See references of WO 2010075530A1

Citation (examination)

- WO 9428061 A1 19941208 - ZENECA LTD [GB], et al
- JP H06264305 A 19940920 - UNITIKA LTD, et al

Citation (third parties)  
Third party :

- WO 9428061 A1 19941208 - ZENECA LTD [GB], et al
- US 5061743 A 19911029 - HERRING JOHN M [GB], et al
- DE 266116 C
- JP H06264305 A 19940920 - UNITIKA LTD, et al
- DE 4416357 A1 19951116 - BUNA GMBH [DE]
- WO 9607697 A1 19960314 - ZENECA LTD [GB], et al
- WO 2006012917 A1 20060209 - COGNIS BRASIL LTDA [BR], et al
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- GRIFFIN A. ET AL: "Plastics and synthetic fibres from microorganisms: a dream or a potential reality?", MICROBIOLOGICAL SCIENCES, vol. 4, 1 January 1987 (1987-01-01), pages 357 - 361, XP009163964
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- SCHMACK G. ET AL: "BIODEGRADABLE FIBERS OF POLY(3-HYDROXYBUTYRATE) PRODUCED BY HIGH-SPEED MELT SPINNING AND SPIN DRAWING", JOURNAL OF POLYMER SCIENCE PART B: POLYMER PHYSICS, vol. 38, no. 21, 1 November 2000 (2000-11-01), pages 2841 - 2850, XP002251502
- RENSTAD R. ET AL: "The influence of processing induced differences in molecular structure on the biological and non-biological degradation of poly (3-hydroxybutyrate-co-3-hydroxyvalerate), P(3-HB-co-3-HV)", POLYMER DEGRADATION AND STABILITY, vol. 63, no. 2, 1 February 1999 (1999-02-01), pages 201 - 211, XP004294588

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010075530 A1 20100701; WO 2010075530 A8 20100916**; CA 2748035 A1 20100701; EP 2379618 A1 20111026; IL 213684 A0 20110731; TW 201042103 A 20101201

DOCDB simple family (application)  
**US 2009069444 W 20091223**; CA 2748035 A 20091223; EP 09796908 A 20091223; IL 21368411 A 20110621; TW 98144381 A 20091222