

Title (en)

POLYOLEFIN FIBRES AND THEIR USE IN THE PREPARATION OF NONWOVENS WITH HIGH BULK AND RESILIENCE

Title (de)

POLYOLEFINFASERN UND DEREN VERWENDUNG BEI DER HERSTELLUNG HOCHVOLUMINÖSER VLIESTOFFE MIT HOHEM RÜCKSTELLVERMÖGEN

Title (fr)

FIBRES EN POLYOLEFINE ET LEUR UTILISATION DANS LA PREPARATION DE NONTISSES A VOLUME ET RESILIENCE ELEVES

Publication

EP 1540051 B1 20061129 (EN)

Application

EP 03797183 A 20030917

Priority

- DK 0300600 W 20030917
- DK PA200201368 A 20020917

Abstract (en)

[origin: WO2004027130A1] Non-woven materials from polyolefin-based fibres which have bulk and resilience comparable to polyester fibres are described herein, thus expanding the utility of polyolefin fibres and nonwovens to a plethora of industrial applications which previously excluded products based on polyolefin fibres due to their hitherto inadequate bulk or resilience. Control of polyolefin fibre characteristics such as the fibre/fibre friction, fibre crystallinity, draw ratio, or selection of the spin finish so as to comprise essentially of an aqueous emulsion of polysiloxanes render them suitable for preparing bulky and resilient nonwovens.

IPC 8 full level

D01F 6/04 (2006.01); **C08F 10/00** (2006.01); **D01F 1/10** (2006.01); **D01F 6/06** (2006.01); **D01F 6/30** (2006.01); **D01F 6/46** (2006.01); **D04H 1/00** (2006.01); **D04H 1/42** (2012.01); **D04H 1/4291** (2012.01); **D06M 15/37** (2006.01); **D06M 15/643** (2006.01)

CPC (source: EP KR)

D01F 1/10 (2013.01 - EP); **D01F 6/04** (2013.01 - EP KR); **D01F 6/06** (2013.01 - EP); **D01F 6/30** (2013.01 - EP KR); **D01F 6/46** (2013.01 - EP); **D04H 1/00** (2013.01 - KR); **D04H 1/4291** (2013.01 - EP); **D06M 7/00** (2013.01 - EP); **D06M 15/643** (2013.01 - EP); **D06M 2101/20** (2013.01 - EP); **D06M 2200/40** (2013.01 - EP)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004027130 A1 20040401; AT E346967 T1 20061215; AU 2003263156 A1 20040408; CA 2499237 A1 20040401; CN 100336949 C 20070912; CN 1681979 A 20051012; DE 60310093 D1 20070111; DE 60310093 T2 20070628; DK 1540051 T3 20070402; EP 1540051 A1 20050615; EP 1540051 B1 20061129; JP 2005539154 A 20051222; KR 20050057377 A 20050616

DOCDB simple family (application)

DK 0300600 W 20030917; AT 03797183 T 20030917; AU 2003263156 A 20030917; CA 2499237 A 20030917; CN 03822023 A 20030917; DE 60310093 T 20030917; DK 03797183 T 20030917; EP 03797183 A 20030917; JP 2004536879 A 20030917; KR 20057004526 A 20050316