

Title (en)

EXTENSIBLE FIBERS AND NONWOVENS MADE FROM LARGE DENIER SPLITTABLE FIBERS

Title (de)

DEHNBARE FASERN UND VLIESTOFFE HERGESTELLT AUS SPALTBAREN HOCHDENIER-FASERN

Title (fr)

FIBRES ET NONTISSES EXTENSIBLES FABRIQUES A PARTIR DE FIBRES SEPARABLES A GRAND DENIER

Publication

EP 1377698 A1 20040107 (EN)

Application

EP 02728401 A 20020301

Priority

- US 0206531 W 20020301
- US 27597601 P 20010315

Abstract (en)

[origin: WO02075028A1] The present invention provides fibers (e.g. for nonwovens) that have high elongation to break at moderate to low fiber diameters. This is accomplished by spinning splittable multicomponent fibers under appropriate conditions to produce large diameter, low orientation fibers which can then be split into smaller segments that maintain the properties of the parent fiber. Thus, fibers are produced having elongations significantly higher than if a fiber of that same size had been spun directly.

IPC 1-7

D01D 5/32; **D01F 8/06**; **D01F 8/12**; **D01F 8/14**; **D04H 3/00**

IPC 8 full level

A61F 13/49 (2006.01); **A61F 13/15** (2006.01); **A61F 13/514** (2006.01); **D01D 5/32** (2006.01); **D01F 8/06** (2006.01); **D01F 8/12** (2006.01); **D01F 8/14** (2006.01); **D04H 1/42** (2012.01); **D04H 1/46** (2012.01); **D04H 1/54** (2012.01)

CPC (source: EP US)

D01D 5/32 (2013.01 - EP US); **D01F 8/06** (2013.01 - EP US); **D01F 8/12** (2013.01 - EP US); **D01F 8/14** (2013.01 - EP US); **D04H 1/4291** (2013.01 - EP US); **D04H 1/4334** (2013.01 - EP US); **D04H 1/435** (2013.01 - EP US); **D04H 1/43828** (2020.05 - EP US); **D04H 1/43832** (2020.05 - EP US); **D04H 1/43912** (2020.05 - EP US); **D04H 1/43914** (2020.05 - EP US); **D04H 1/49** (2013.01 - EP US); **D04H 1/54** (2013.01 - EP US); **D04H 1/43838** (2020.05 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2915** (2015.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 428/2931** (2015.01 - EP US); **Y10T 442/609** (2015.04 - EP US); **Y10T 442/614** (2015.04 - EP US); **Y10T 442/622** (2015.04 - EP US); **Y10T 442/637** (2015.04 - EP US); **Y10T 442/638** (2015.04 - EP US)

Citation (search report)

See references of WO 02075028A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02075028 A1 20020926; CA 2436212 A1 20020926; EP 1377698 A1 20040107; JP 2004532939 A 20041028; US 2004161994 A1 20040819

DOCDB simple family (application)

US 0206531 W 20020301; CA 2436212 A 20020301; EP 02728401 A 20020301; JP 2002574413 A 20020301; US 66166403 A 20030912