

Title (en)
TOW AND PROCESS OF MAKING

Title (de)
FADENBÜNDEL UND VERFAHREN ZUR DESSEN HERSTELLUNG

Title (fr)
CABLE DE FILAMENTS ET SON PROCEDE DE FABRICATION

Publication
EP 1183410 A1 20020306 (EN)

Application
EP 00928918 A 20000509

Priority
• US 0012554 W 20000509
• US 13339499 P 19990510

Abstract (en)
[origin: WO0068476A1] A three-dimensionally crimped spreadable continuous filament tow band is made by extruding polymers through a capillary, spinning the extruded polymers into filaments to form fibers, quenching the fibers, grouping the quenched fibers together to form two or more separate ropes, drawing the separate ropes simultaneously to form flat ribbons, stacking the flat ribbons on top of each other to form a single uniform tow band, and removing tension from the band. The batting produced by deregistering and spreading the tow band uniformly is useful, for example, to make filled articles, such as sleeping bags, duvets, and pillows.

IPC 1-7
D01F 8/14; **A47G 9/00**; **D02G 1/00**; **D02J 1/18**; **D04H 3/04**

IPC 8 full level
D06M 15/643 (2006.01); **A47G 9/02** (2006.01); **D01F 8/14** (2006.01); **D02G 1/00** (2006.01); **D02J 1/18** (2006.01); **D04H 3/04** (2012.01)

CPC (source: EP KR)
A47G 9/0207 (2013.01 - EP); **D01F 8/14** (2013.01 - EP); **D02G 1/00** (2013.01 - EP KR); **D02J 1/18** (2013.01 - EP); **D04H 3/04** (2013.01 - EP)

Citation (search report)
See references of WO 0068476A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0068476 A1 20001116; AU 4708200 A 20001121; CN 1349571 A 20020515; DE 60029441 D1 20060831; DE 60029441 T2 20070215; EP 1183410 A1 20020306; EP 1183410 B1 20060719; JP 2002544398 A 20021224; KR 20010112483 A 20011220

DOCDB simple family (application)
US 0012554 W 20000509; AU 4708200 A 20000509; CN 00807169 A 20000509; DE 60029441 T 20000509; EP 00928918 A 20000509; JP 2000617242 A 20000509; KR 20017014284 A 20011109