

Title (en)
Monofilaments modified with perfluoropolyethers

Title (de)
Mit Perfluoropolyethern modifizierte Monofilamente

Title (fr)
Monofilaments modifiés à l'aide de perfluoropolyéthers

Publication
EP 2135982 A3 20100526 (DE)

Application
EP 09007803 A 20090613

Priority
DE 102008028617 A 20080618

Abstract (en)
[origin: EP2135982A2] The method of producing a monofilament made of a mixture of a melt-spinnable, thread-forming polymer and an additional modifying polymer, comprises spinning the polymer and 0.001-10 wt.% of a perfluorinated polyether such as inert perfluoropolyether liquid into monofilaments. The perfluoropolyether liquid has a molecular weight of 500-6000. The mixture further contains stabilizers such as hydrolysis-, thermal- and/or UV stabilizers, and pigment dyes. The monofilament has a diameter of 0.1-1 mm, and is rotated with a circular-, non-circular-, oval or n-angular cross-section, where $n \geq 3$. An independent claim is included for a monofilament.

IPC 8 full level
D01F 6/88 (2006.01); **B29C 48/30** (2019.01); **D01F 6/94** (2006.01)

CPC (source: EP US)
D01F 6/88 (2013.01 - EP US); **D01F 6/94** (2013.01 - EP US); **Y10T 428/249921** (2015.04 - EP US); **Y10T 442/30** (2015.04 - EP US)

Citation (search report)

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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 TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2135982 A2 20091223; **EP 2135982 A3 20100526**; DE 102008028617 A1 20091224; JP 2010001596 A 20100107; US 2009318047 A1 20091224

DOCDB simple family (application)
EP 09007803 A 20090613; DE 102008028617 A 20080618; JP 2009144846 A 20090618; US 48552409 A 20090616