

Title (en)

THERMOPLASTIC FIBRES WITH REDUCED SURFACE TENSION

Title (de)

THERMOPLASTFASERN MIT REDUZIERTER OBERFLÄCHENSpannung

Title (fr)

FIBRES THERMOPLASTIQUES POSSÉDANT UNE TENSION SUPERFICIELLE RÉDUITE

Publication

EP 2844788 A1 20150311 (DE)

Application

EP 13721664 A 20130503

Priority

- EP 12166834 A 20120504
- EP 2013059259 W 20130503
- EP 13721664 A 20130503

Abstract (en)

[origin: EP2660372A1] Reducing the surface tension of thermoplastic based fibers or filaments, comprises adding at least one copolymer of at least one alpha -olefin and at least one acrylic ester or methacrylic ester of an aliphatic alcohol to the thermoplastic material, and spinning the copolymer by the melt spinning process. Independent claims are also included for: (1) fibers or filaments with a reduced surface tension which are obtainable by melt-spinning of thermoplastic materials, preferably thermoplastic materials of polyamide or polyester, which are additives with at least one copolymer of at least one alpha -olefin and at least one acrylic ester or methacrylic ester of an aliphatic alcohol; and (2) products, preferably fleece, nonwovens, clothes, woven fabrics or knitted fabric obtained from the thermoplastic materials based on fibers or filaments with a reduced surface tension.

IPC 8 full level

C08L 23/00 (2006.01); **D01F 1/10** (2006.01); **D01F 6/90** (2006.01); **D01F 6/92** (2006.01)

CPC (source: EP US)

D01D 5/08 (2013.01 - US); **D01F 1/10** (2013.01 - EP US); **D01F 6/10** (2013.01 - EP US); **D01F 6/60** (2013.01 - EP US); **D01F 6/62** (2013.01 - EP US); **D01F 6/84** (2013.01 - US); **D01F 6/90** (2013.01 - EP US); **D01F 6/92** (2013.01 - EP US); **D10B 2331/02** (2013.01 - US); **D10B 2331/04** (2013.01 - US); **D10B 2401/021** (2013.01 - US)

Citation (search report)

See references of WO 2013164452A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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