

Title (en)  
THERMOPLASTIC POLYMER YARNS AND FILMS INCLUDING DRY LUBRICANTS AND INDUSTRIAL TEXTILES MADE THEREFROM

Title (de)  
THERMOPLASTISCHE POLYMERGARNE UND FILME MIT TROCKENEN SCHMIERMITTELN SOWIE DARAUS HERGESTELLTE INDUSTRIELLE TEXTILSTOFFE

Title (fr)  
FILS ET FILMS POLYMÈRES THERMOPLASTIQUES COMPRENANT DES LUBRIFIANTS SECS ET TEXTILES INDUSTRIELS FABRIQUÉS À PARTIR DESDITS FILS ET FILMS

Publication  
**EP 2545212 A4 20140101 (EN)**

Application  
**EP 11752768 A 20110302**

Priority  
• CA 2696648 A 20100309  
• CA 2011000236 W 20110302

Abstract (en)  
[origin: CA2696648A1] Oriented thermoplastic polymer monofilaments comprised of a polyester having an intrinsic viscosity of at least 0.55 in the final monofilament, and further including in the polymer an effective amount of from about 0.1% up to about 10% parts by weight (pbw) based on the total weight of the monofilament, of molybdenum disulphide particles. When incorporated into industrial textiles, such as papermakers fabrics, as a portion of either or both the machine direction or cross-machine direction yarns, the novel monofilaments are effective to reduce the overall coefficient of friction of the fabric when compared to similar polyester monofilaments not containing the molybdenum disulphide, thus reducing fabric drive loads and associated energy costs to the user. The novel monofilaments further exhibit excellent resistance to abrasive wear in comparison to comparable monofilaments formed from a similar polyester which does not contain molybdenum disulphide particles.

IPC 8 full level  
**D01F 1/10** (2006.01); **D01F 6/60** (2006.01); **D01F 6/62** (2006.01); **D03D 15/58** (2021.01); **D21F 1/00** (2006.01); **D21F 1/10** (2006.01); **D21F 7/08** (2006.01); **D04H 3/04** (2012.01)

CPC (source: EP US)  
**D01F 1/10** (2013.01 - EP US); **D01F 6/60** (2013.01 - EP US); **D01F 6/62** (2013.01 - EP US); **D03D 15/58** (2021.01 - EP US); **D04H 3/011** (2013.01 - EP US); **D04H 3/04** (2013.01 - EP US); **D21F 1/0027** (2013.01 - EP US); **Y10T 428/19** (2015.01 - EP US); **Y10T 428/249922** (2015.04 - EP US); **Y10T 428/268** (2015.01 - EP US); **Y10T 428/2904** (2015.01 - EP US); **Y10T 428/2916** (2015.01 - EP US); **Y10T 428/2927** (2015.01 - EP US); **Y10T 442/339** (2015.04 - EP US); **Y10T 442/3976** (2015.04 - EP US); **Y10T 442/643** (2015.04 - EP US)

Citation (search report)  
• [X] JP H10102320 A 19980421 - UNITIKA LTD  
• [XD] EP 0063380 A2 19821027 - DU PONT [US]  
• [X] JP S57183414 A 19821111 - GOSEN KK  
• [I] JP H01148805 A 19890612 - NICHIBI KK  
• [A] US 2008135199 A1 20080612 - ROUHLING JEAN ALPHONSE MARIE [FR]  
• See references of WO 2011109890A1

Designated contracting state (EPC)  
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DOCDB simple family (application)  
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