

Title (en)  
HIGH-DPF YARNS WITH IMPROVED FATIGUE

Title (de)  
HOCH EINZELTITRIGE GARNE MIT VERBESSERTEM ERMÜDUNGSWIDERSTAND

Title (fr)  
FILS POSSEDANT UN DPF ELEVE ET UNE RESISTANCE ACCRUE A LA FATIGUE

Publication  
**EP 1470275 A4 20100602 (EN)**

Application  
**EP 02713509 A 20020129**

Priority  
• US 0202751 W 20020129  
• US 30763002 A 20021202

Abstract (en)  
[origin: WO03064744A1] A product comprises a dimensionally stable polymeric multifilament yarn having a decitex per fiber count DPF of at least 7.5 and a fatigue strength retention FR, wherein preferred yarns are spun and drawn such that FR increases when DPF increases. Particularly preferred yarns are fabricated from poly(ethylene terephthalate) and have a DPF

IPC 1-7  
**D02G 3/00**; **D02G 3/02**; **D02G 3/36**; **B32B 9/00**; **D03D 15/00**

IPC 8 full level  
**D06M 15/41** (2006.01); **B32B 9/00** (2006.01); **D01F 6/62** (2006.01); **D02G 3/00** (2006.01); **D02G 3/02** (2006.01); **D02G 3/26** (2006.01); **D02G 3/36** (2006.01); **D02G 3/48** (2006.01); **D03D 15/00** (2006.01); **D06M 101/32** (2006.01)

CPC (source: EP)  
**D01D 5/16** (2013.01); **D01F 6/62** (2013.01); **D02G 3/48** (2013.01)

Citation (search report)  
• [X] US 5658665 A 19970819 - KIM KYEOGHYEON [KR], et al  
• [X] US 5397527 A 19950314 - RIM PETER B [US], et al  
• [E] US 2005106389 A1 20050519 - RIM PETER B [US], et al  
• [A] US 4475330 A 19841009 - KIMURA AKIO [JP], et al  
• See references of WO 03064744A1

Citation (examination)  
EP 0546859 A2 19930616 - KOLON INC [KR]

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 03064744 A1 20030807**; CN 100572625 C 20091223; CN 1620530 A 20050525; CZ 2004615 A3 20041110; CZ 302323 B6 20110309; EP 1470275 A1 20041027; EP 1470275 A4 20100602; MX PA04007087 A 20041029

DOCDB simple family (application)  
**US 0202751 W 20020129**; CN 02821550 A 20020129; CZ 2004615 A 20020129; EP 02713509 A 20020129; MX PA04007087 A 20020129