

Title (en)
POLYESTER YARN AND PROCESS FOR PRODUCING

Title (de)
POLYESTERGARN UND HERSTELLUNGSVERFAHREN

Title (fr)
FIL DE POLYESTER ET PROCESSUS DE FABRICATION

Publication
EP 1979516 A1 20081015 (EN)

Application
EP 06840340 A 20061221

Priority
• US 2006062480 W 20061221
• US 75406805 P 20051227

Abstract (en)
[origin: US2007148450A1] A multi-filament poly(trimethylene terephthalate) yarn is provided. The poly(trimethylene terephthalate) yarn has a crystal orientation function of at least 0.6 and an elongation at break of between 65% and 110%. A process for producing the yarn is also provided in which poly(trimethylene terephthalate) is melt-spun into a multi-filament yarn, the yarn is cooled to a yarn temperature of less than 50° C., and the cooled yarn is taken-up at a take-up speed of at least 3500 m/min while maintaining the temperature of the yarn at a yarn temperature of less than 50° C.

IPC 8 full level
D01F 6/62 (2006.01)

CPC (source: EP KR US)
D01F 6/62 (2013.01 - EP KR US); **D02G 3/02** (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US)

Citation (search report)
See references of WO 2007076433A1

Cited by
KR20180085408A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007148450 A1 20070628; AU 2006330497 A1 20070705; BR PI0620768 A2 20111122; CA 2634795 A1 20070705; CN 101336317 A 20081231; EP 1979516 A1 20081015; JP 2009521625 A 20090604; KR 20080079691 A 20080901; TW 200741049 A 20071101; WO 2007076433 A1 20070705

DOCDB simple family (application)
US 61551806 A 20061222; AU 2006330497 A 20061221; BR PI0620768 A 20061221; CA 2634795 A 20061221; CN 200680051884 A 20061221; EP 06840340 A 20061221; JP 2008548816 A 20061221; KR 20087017680 A 20080718; TW 95146649 A 20061213; US 2006062480 W 20061221