

Title (en)

PROCESS FOR HIGH-SPEED SPINNING OF POLYESTER FIBER.

Title (de)

VERFAHREN ZUM SCHNELLSPINNEN VON POLYESTERFASERN.

Title (fr)

PROCEDE CONCERNANT LE FILAGE DU POLYESTER A HAUTE VITESSE.

Publication

EP 0605727 A1 19940713 (EN)

Application

EP 93906853 A 19930330

Priority

- JP 7977192 A 19920401
- JP 9300398 W 19930330

Abstract (en)

A process for the high-speed spinning of polyester fiber with remarkably reduced fluffing and yarn breakage to give a package with an excellent put-up in a stabilized manner, wherein the polyester is spun at a spinning rate of 3,000 m/min or above while applying thereto an aqueous emulsion of a spinning finish mainly comprising a monobasic acid ester having an average molecular weight of 300 to 500 and containing (a) 1-15 wt.% of a polyoxyalkylene glycol copolymer having an average molecular weight of 1,000 or above and (b) 0.1-3 wt.% of an organosiloxane compound or a fluoroalkylated compound.

Abstract (fr)

Un procédé concernant le filage des fibres de polyester à haute vitesse, réduit considérablement le peluchage et la rupture du fil et donne un paquet doté d'une présentation excellente et constante. On file le polyester au rythme de 300 m/min. ou plus tout en lui appliquant une émulsion aqueuse de finition de filage comprenant essentiellement un ester d'acide monobasique, d'un poids moléculaire moyen de 300 à 500, qui contient a) 1 à 15 % en poids d'un copolymère de polyoxyalkylèneglycol d'un poids moléculaire moyen de 1000 ou plus, et b) 0,1 à 3 % en poids d'un composé à base d'organosiloxane ou d'un composé fluoroalkylé.

IPC 1-7

D01F 6/62; D01F 11/08; D06M 15/53; D06M 13/224; D06M 13/50; D06M 13/08

IPC 8 full level

D01F 6/62 (2006.01); **D01F 11/08** (2006.01); **D06M 13/02** (2006.01); **D06M 13/08** (2006.01); **D06M 13/165** (2006.01); **D06M 13/17** (2006.01); **D06M 13/224** (2006.01); **D06M 13/236** (2006.01); **D06M 13/265** (2006.01); **D06M 13/322** (2006.01); **D06M 13/402** (2006.01); **D06M 13/408** (2006.01); **D06M 13/438** (2006.01); **D06M 13/50** (2006.01); **D06M 13/51** (2006.01); **D06M 13/513** (2006.01); **D06M 15/53** (2006.01); **D06M 15/643** (2006.01); **D06M 15/647** (2006.01); **D06M 101/00** (2006.01); **D06M 101/12** (2006.01); **D06M 101/16** (2006.01); **D06M 101/30** (2006.01); **D06M 101/32** (2006.01)

CPC (source: EP)

D01F 6/62 (2013.01); **D06M 7/00** (2013.01); **D06M 13/08** (2013.01); **D06M 13/165** (2013.01); **D06M 13/224** (2013.01); **D06M 13/265** (2013.01); **D06M 13/408** (2013.01); **D06M 13/438** (2013.01); **D06M 13/50** (2013.01); **D06M 15/53** (2013.01); **D06M 15/643** (2013.01); **D06M 15/6433** (2013.01); **D06M 15/6436** (2013.01); **D06M 15/647** (2013.01); **D06M 2200/40** (2013.01)

Cited by

US5952077A; AU717971B2; US8147956B2; US6695971B2; WO9621668A1; EP0687724B1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0605727 A1 19940713; **EP 0605727 A4 19951011**; **EP 0605727 B1 19981111**; DE 69322063 D1 19981217; DE 69322063 T2 19990520; JP 2962925 B2 19991012; JP H05287609 A 19931102; KR 0163204 B1 19981201; TW 221465 B 19940301; WO 9320268 A1 19931014

DOCDB simple family (application)

EP 93906853 A 19930330; DE 69322063 T 19930330; JP 7977192 A 19920401; JP 9300398 W 19930330; KR 930703656 A 19931130; TW 82102359 A 19930330