

Title (en)  
ECCENTRIC POLYESTER-POLYETHYLENE-BICOMPONENT FIBRE

Title (de)  
EXZENTRISCHE POLYESTER-POLYETHYLEN-BIKOMPONENTENFASER

Title (fr)  
FIBRE EXCENTRIQUE A DEUX CONSTITUANTS POLYESTER/POLYETHYLENE

Publication  
**EP 1543187 A1 20050622 (DE)**

Application  
**EP 03807760 A 20030726**

Priority

- DE 10244778 A 20020926
- EP 0308279 W 20030726

Abstract (en)  
[origin: US2005093197A1] A method for producing a skin/core type eccentric biocomponent fibre which is soft to touch and has improved latent crimp. An eccentric skin/core fibre which has a skin portion in relation to the cross-section of the fibre of 35%-70% is produced by melt spinning polyester as a core component and polyethylene as a skin component at a spinning speed of between 600 m/min-2000 m/min. The thus-obtained fibre stretches at a temperature of between 40° C.-70° C. at a ratio  $W_{\text{max}} \pm 20\%$  and is then compressed in a crimped manner. The fibre, which is produced in such a manner, is very soft to touch and has an additional latent crimp. The fibres are particularly suitable for producing hygiene products such as hygienic non-woven fabrics, and all kinds of hygienic textile flat items for producing nappies, bandages, inserts, cotton buds, and the like.

IPC 1-7  
**D01F 8/06**; **D01F 8/14**

IPC 8 full level  
**D01F 8/06** (2006.01); **D01F 8/14** (2006.01); **D03D 15/56** (2021.01); **D04H 3/005** (2012.01); **D04H 3/018** (2012.01)

CPC (source: EP KR US)  
**D01D 5/34** (2013.01 - KR); **D01F 8/06** (2013.01 - EP KR US); **D01F 8/14** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2004033771A1

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

DOCDB simple family (publication)  
**US 2005093197 A1 20050505**; **US 7927530 B2 20110419**; AT E333526 T1 20060815; AU 2003253338 A1 20040504; CN 1308508 C 20070404; CN 1630742 A 20050622; DE 10244778 A1 20040408; DE 10244778 B4 20060614; DE 50304302 D1 20060831; DK 1543187 T3 20061030; EP 1543187 A1 20050622; EP 1543187 B1 20060719; JP 2006500484 A 20060105; JP 4376185 B2 20091202; KR 101057424 B1 20110819; KR 20050045942 A 20050517; PT 1543187 E 20061229; WO 2004033771 A1 20040422

DOCDB simple family (application)  
**US 50447204 A 20041221**; AT 03807760 T 20030726; AU 2003253338 A 20030726; CN 03803681 A 20030726; DE 10244778 A 20020926; DE 50304302 T 20030726; DK 03807760 T 20030726; EP 0308279 W 20030726; EP 03807760 A 20030726; JP 2004542277 A 20030726; KR 20047014243 A 20030726; PT 03807760 T 20030726