

Title (en)
BICONSTITUENT POLYPROPYLENE/POLYETHYLENE FIBERS

Publication
EP 0260974 A3 19890524 (EN)

Application
EP 87308249 A 19870917

Priority
• US 1065187 A 19870204
• US 1385387 A 19870212
• US 90934586 A 19860919
• US 94656286 A 19861224

Abstract (en)
[origin: EP0260974A2] Biconstituent fibers consist essentially of polypropylene as a continuous phase having distributed therein 20 to 45 weight percent of linear low density polyethylene (LLDPE) fibrils as a dispersed phase arrayed in a substantially omni-directional splayed manner. The LLDPE has a melt flow rate of 12 to 120 g/10 mins (ASTM) and preferably a density of 0.92 to 0.94 g/cm³. The preferred alkylene comonomers of the LLDPE have 4 to 8 carbon atoms, especially 1-octene in an amount of 5 to 10 percent. Fibers of deniers below 30, preferably below 15, can be obtained and have improved tenacity and hand as compared to polypropylene fibers.

IPC 1-7
D01F 6/46; **D01F 8/06**

IPC 8 full level
D01F 6/46 (2006.01); **D01F 8/06** (2006.01)

CPC (source: EP KR)
D01F 6/06 (2013.01 - KR); **D01F 6/46** (2013.01 - EP); **D01F 8/06** (2013.01 - EP)

Citation (search report)
• [A] DE 3544523 A1 19860626 - BARMAG BARMER MASCHF [DE]
• [AD] EP 0192897 A2 19860903 - DU PONT [US]
• [AD] EP 0080274 A2 19830601 - ICI PLC [GB]
• [A] US 4296022 A 19811020 - HUDSON ROBERT L

Cited by
US5643240A; FR2721949A1; EP0462188A4; EP0620294A3; US5554441A; US5554437A; EP0621356A3; US5487943A; CN116695280A; DE4321560A1; US5514751A; US5585172A; US6521709B2; WO9116374A1; WO9915586A1; EP2218811A1; EP2341174A1; US8420557B2; EP0663965B2

Designated contracting state (EPC)
AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)
EP 0260974 A2 19880323; **EP 0260974 A3 19890524**; **EP 0260974 B1 19921216**; AU 606357 B2 19910207; AU 7864987 A 19880324; BR 8704808 A 19880517; CA 1296498 C 19920303; DE 3783109 D1 19930128; DE 3783109 T2 19930609; ES 2036579 T3 19930601; FI 874086 A0 19870918; FI 874086 A 19880320; FI 89188 B 19930514; FI 89188 C 19930825; KR 880004141 A 19880601; MX 160047 A 19891110; NO 170499 B 19920713; NO 170499 C 19921021; NO 873921 D0 19870918; NO 873921 L 19880321; PH 24516 A 19900718

DOCDB simple family (application)
EP 87308249 A 19870917; AU 7864987 A 19870918; BR 8704808 A 19870918; CA 547252 A 19870918; DE 3783109 T 19870917; ES 87308249 T 19870917; FI 874086 A 19870918; KR 870010401 A 19870919; MX 836887 A 19870918; NO 873921 A 19870918; PH 35834 A 19870921