

Title (en)
Hydrophilic additive

Title (de)
Hydrophilieadditiv

Title (fr)
Additif hydrophile

Publication
EP 1138810 A1 20011004 (DE)

Application
EP 01102561 A 20010206

Priority
DE 10015554 A 20000330

Abstract (en)
Reaction products (I) of 1 part polyethylene glycol (PEG) with 2 parts fatty acids having 10-12 carbon (C) atoms or their derivatives are used as additives for permanently hydrophilizing polyolefin-containing materials. Independent claims are also included for: (1) polypropylene fibers containing 0.5-10 wt.% (I); and (2) production of polypropylene fibers by mixing polyolefins with (I), heating the mixture to form a melt and spinning the melt to form fibers.

Abstract (de)
Beschrieben wird die Verwendung von Umsetzungsprodukten von 1 Teil Polyethylenglykol mit 2 Teilen Fettsäuren mit 10 bis 12 C-Atomen oder deren Derivaten als Additiv zur permanenten Hydrophilisierung von Polyolefinen enthaltenden Materialien.

IPC 1-7
D01F 1/10; **D01F 6/46**; **C08K 5/103**

IPC 8 full level
C07C 67/08 (2006.01); **C07C 69/28** (2006.01); **C08K 5/103** (2006.01); **C08L 23/00** (2006.01); **D01F 1/10** (2006.01); **D01F 6/46** (2006.01)

CPC (source: EP KR US)
D01F 1/10 (2013.01 - EP KR US); **D01F 6/46** (2013.01 - EP US); **Y10T 442/20** (2015.04 - EP US); **Y10T 442/2484** (2015.04 - EP US); **Y10T 442/60** (2015.04 - EP US)

Citation (search report)

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- [A] US 3048266 A 19620807 - HACKHEL ROBERT H, et al
- [A] EP 0943724 A1 19990922 - CHISSO CORP [JP]

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EP 1138810 A1 20011004; **EP 1138810 B1 20030416**; AT E237705 T1 20030515; BR 0109646 A 20030422; CA 2405407 A1 20020930; CN 1170015 C 20041006; CN 1416480 A 20030507; CZ 20023252 A3 20030416; DE 10015554 A1 20011011; DE 50100167 D1 20030522; DK 1138810 T3 20030728; ES 2197129 T3 20040101; HK 1051881 A1 20030822; JP 2003529672 A 20031007; KR 100752974 B1 20070830; KR 20030011806 A 20030211; MX PA02009270 A 20040812; SK 13822002 A3 20030401; SK 285314 B6 20061005; TR 200300987 T4 20040121; US 2002019184 A1 20020214; US 6699922 B2 20040302; WO 0175199 A1 20011011

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