

Title (en)  
FILLED THERMOPLASTIC CUT-RESISTANT FIBER

Title (de)  
GEFÜLLTE THERMOPLASTISCHE SCHNITTFESTE FASER

Title (fr)  
FIBRES THERMOPLASTIQUES CHARGEES RESISTANTES A LA COUPURE

Publication  
**EP 0845056 A1 19980603 (EN)**

Application  
**EP 96916969 A 19960531**

Priority  
• US 9608358 W 19960531  
• US 48220795 A 19950607

Abstract (en)  
[origin: WO9641042A1] A fiber having increased cut resistance is made from an isotropic polymer and a hard filler having an average particle size in the range of about 0.25 to about 10 microns and having a Mohs Hardness Value greater than about 3. The filler is included in an amount of at least about 0.1 % by weight. The preferred isotropic polymer is poly(ethylene terephthalate). The preferred filler is calcined alumina.

IPC 1-7  
**D01F 1/10**; **D01F 6/62**; **D01F 6/60**; **C08K 3/08**; **C08K 3/22**; **A41D 13/10**; **A41D 31/00**

IPC 8 full level  
**A41D 31/00** (2006.01); **C08K 3/22** (2006.01); **D01F 1/10** (2006.01); **D01F 6/60** (2006.01); **D01F 6/62** (2006.01); **D02G 3/44** (2006.01); **D04H 3/10** (2006.01); **D04H 3/16** (2006.01)

CPC (source: EP KR)  
**A41D 31/24** (2019.01 - EP); **C08K 3/22** (2013.01 - EP); **D01F 1/10** (2013.01 - EP KR); **D01F 6/60** (2013.01 - EP KR); **D01F 6/62** (2013.01 - EP KR); **D02G 3/442** (2013.01 - EP)

Citation (search report)  
See references of WO 9641042A1

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

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**WO 9641042 A1 19961219**; AU 5967796 A 19961230; AU 717702 B2 20000330; BR 9609091 A 19990202; CA 2221615 A1 19961219; CA 2221615 C 20060801; CN 1092254 C 20021009; CN 1190444 A 19980812; EP 0845056 A1 19980603; JP H11511209 A 19990928; KR 19990022515 A 19990325; TW 307802 B 19970611

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**US 9608358 W 19960531**; AU 5967796 A 19960531; BR 9609091 A 19960531; CA 2221615 A 19960531; CN 96195351 A 19960531; EP 96916969 A 19960531; JP 50098497 A 19960531; KR 19970708996 A 19971205; TW 85106334 A 19960528