

Title (en)

HIGH TRACKING INDEX LIQUID CRYSTALLINE POLYMERS AND RELATED APPLICATIONS

Title (de)

FLÜSSIGKRISTALLINE POLYMERE MIT HOHER KRIECHSTROMFESTIGKEIT UND VERWANDTE ANWENDUNGEN

Title (fr)

POLYM RES CRISTAUX LIQUIDES COEFFICIENT DE CHEMINEMENT LEV ET APPLICATIONS CONNEXES

Publication

EP 1299501 A2 20030409 (EN)

Application

EP 01950885 A 20010705

Priority

- US 0121267 W 20010705
- US 21581300 P 20000705
- US 21581400 P 20000705

Abstract (en)

[origin: WO0202717A2] Excellent tracking index as well as flame-resistant properties are achieved with other desirable characteristics of LCPs in a resin composition consisting essentially of: a) a wholly aromatic polyester which is melt processible and which displays anisotropy in the molten state; b) a non-conductive filler material having a diameter of less than about 3 μm , with said non-conductive filler material being present in an amount sufficient to increase the comparative tracking index (CTI) rating of said composition to above 220 volts and render the composition non-burning. Optionally, an extraordinarily small amount of non-volatile fluorescent brightener can be added to the resin composition. In combination with the non-conductive filler, the fluorescent brightener is found to surprisingly and significantly improve the flame-retardant property of the resin.

IPC 1-7

C09K 19/38; **C08K 11/00**; **C08L 67/00**; **C09K 19/52**

IPC 8 full level

C08L 67/00 (2006.01); **C08K 3/00** (2006.01); **C08K 3/22** (2006.01); **C08K 7/00** (2006.01); **C08L 77/12** (2006.01); **C08L 79/08** (2006.01); **C09K 21/14** (2006.01); **C08G 63/60** (2006.01)

CPC (source: EP KR)

C08K 3/22 (2013.01 - EP); **C08K 7/00** (2013.01 - EP); **C09K 19/38** (2013.01 - KR); **C09K 21/14** (2013.01 - EP); **C08G 63/605** (2013.01 - EP); **C08K 2003/2237** (2013.01 - EP)

Citation (search report)

See references of WO 0202717A2

Cited by

US11901499B2

Designated contracting state (EPC)

AT BE CH CY DE FR GB IT LI

DOCDB simple family (publication)

WO 0202717 A2 20020110; **WO 0202717 A3 20020425**; AU 7183701 A 20020114; CA 2410570 A1 20020110; CN 100489029 C 20090520; CN 1451033 A 20031022; EP 1299501 A2 20030409; JP 2004502828 A 20040129; JP 5349724 B2 20131120; KR 20030019953 A 20030307

DOCDB simple family (application)

US 0121267 W 20010705; AU 7183701 A 20010705; CA 2410570 A 20010705; CN 01812195 A 20010705; EP 01950885 A 20010705; JP 2002507962 A 20010705; KR 20037000102 A 20030104