

Title (en)  
Manufacturing method of polyester fiber having improved light fastness

Title (de)  
Verfahren zur Herstellung von Polyesterfasern mit verbesserter Lichtechtheit

Title (fr)  
Procédé de fabrication de fibres de polyester ayant une stabilité à la lumière améliorée

Publication  
**EP 1424414 A1 20040602 (EN)**

Application  
**EP 02026477 A 20021127**

Priority  
EP 02026477 A 20021127

Abstract (en)  
A manufacturing method of polyester fiber having improved light fastness is provided, which comprises copolymerizing dicarboxylic acid, diol component and the ester forming monomer into a copolyester, wherein said ester forming monomer is present in an amount of 0.05 mole % above based upon the total dicarboxylic acid components and is represented by the following formula (1)  $R_2OOC-R_1-COOR_3$  (wherein  $R_1$  is a naphthalene ring,  $R_2$  and  $R_3$  are selected from group of hydrogen atoms or C1 SIMILAR C4 alkyl, and  $R_2$  is independent from  $R_3$ , it can be the same or different with  $R_3$ ; the position of substitute group for the naphthalene ring on the ester forming monomer can be: -2,3-, -2,5-, -2,6-, -2,7-, -1,2-, -1,3-, -1,4-, -1,5-, -1,6-, -1,7-, -1,8-), subjecting the formed copolyester component to spin-draw process to obtain fiber which possess excellent light fastness after dyeing. Said fiber is suitable for automobile interior decoration, curtain and outdoor application and can keep fresh color without fading even being exposed to sunlight for a long time.

IPC 1-7  
**D01F 6/84**

IPC 8 full level  
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CPC (source: EP)  
**D01F 6/84** (2013.01)

Citation (search report)

- [X] DATABASE WPI Section Ch Week 200233, Derwent World Patents Index; Class A23, AN 2002-291801, XP002238279
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 09 30 September 1996 (1996-09-30)
- [X] DATABASE WPI Section Ch Week 198802, Derwent World Patents Index; Class A23, AN 1988-012365, XP002045080, ANONYMOUS: "Copolyester with terephthalate and naphthalate di-carboxylate unit - from ethylene glycol, butane diol and/or cyclohexane di:methanol, with improved resistance to UV and weathering" & RESEARCH DISCLOSURE, vol. 284, no. 042, 10 December 1987 (1987-12-10), Emsworth, GB

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