

Title (en)  
Synthetic tracking fiber

Title (de)  
Synthetische Faser geeignet erfasst zu werden

Title (fr)  
Fibre synthétique apte à être détectée

Publication  
**EP 2843128 A1 20150304 (EN)**

Application  
**EP 13182796 A 20130903**

Priority  
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Abstract (en)  
A tracking fiber for non-destructive testing of linear tension members wherein the tracking fiber comprises a fiber and a composition, wherein the fiber comprises a synthetic polymer and the composition comprises at least one component chosen from: i) an alkali metal, an earth alkali metal, a metal chosen from cerium, neodymium, zinc, iron, zirconium, tantalum, silver, gold, platinum, titanium or iridium, a metal alloy and/or a derivative thereof, ii) a halogen and/or derivative thereof, or iii) an organic compound. Also a linear tension member with said tracking fiber and the use of said tracking fiber for testing of a linear tension member, e.g. by X-ray, terahertz, electromagnetic, permanent magnetic field analysis, NMR or electric conductivity is disclosed.

IPC 8 full level  
**D07B 1/14** (2006.01)

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Citation (applicant)  
• US 6886666 B2 20050503 - STUCKY PAUL A [US], et al  
• EP 0731209 A1 19960911 - INVENTIO AG [CH]  
• US 5182779 A 19930126 - D AGOSTINO WILLIAM L [US], et al  
• US 6289742 B1 20010918 - DE ANGELIS CLAUDIO [CH]  
• EP 2385963 A2 20111116 - TEIJIN ARAMID BV [NL]  
• EP 2300644 A1 20110330 - TEIJIN ARAMID BV [NL]  
• RAHAMAN ET AL., POLYMER DEGRADATION AND STABILITY, vol. 92, 2007, pages 1412 - 1432

Citation (search report)  
• [X] EP 1435407 A1 20040707 - TEIJIN TWARON BV [NL]  
• [X] DE 202010013519 U1 20101125 - BARTHEL FELDHOFF GMBH & CO KG [DE], et al  
• [XY] WO 9303219 A1 19930218 - UNIV STRATHCLYDE [GB]  
• [Y] WO 2009137709 A1 20091112 - RHODE ISLAND BOARD OF GOVERNOR [US], et al  
• [Y] WO 2006127569 A2 20061130 - RHODE ISLAND EDUCATION [US], et al  
• [X] GB 2187217 A 19870903 - ANZAI YUTAKA

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