Title (en)

Synthetic fibre rope, method for monitoring the service life of a synthetic fibre rope and lift with a synthetic fibre rope

Title (de)

Kunstfaserseil, Verfahren zur Überwachung der Seillebensdauer eines Kunstfaserseils sowie Aufzug mit Kunstfaserseil

Title (fr)

Câble en fibres synthétiques, procédé pour contrôler la durée de vie d'un câble en fibres synthétiques et ascenseur avec un câble en fibres synthétiques

Publication

EP 1930497 B1 20120516 (DE)

Application

EP 07120990 A 20071119

Priority

- EP 06125290 A 20061204
- EP 07120990 A 20071119

Abstract (en)

[origin: US2008148704A1] A synthetic fiber rope can be used to the limit of failure by setting a sensitivity of detection of the state of wear of the rope. Strands of the rope have indicator fibers or indicator yarn that have a high probability of losing electrical conductivity and thereby indicate cable wear. The matrix of the strand with indicator fibers or with at least one indicator yarn has a lower resistance to abrasion than the matrix of the other strands without indicator fibers or indicator yarns.

IPC 8 full level

D07B 1/02 (2006.01); D07B 1/14 (2006.01)

CPC (source: EP KR US)

B66B 7/06 (2013.01 - EP US); B66B 7/1223 (2013.01 - EP US); D07B 1/025 (2013.01 - EP US); D07B 1/145 (2013.01 - EP KR US); D07B 1/24 (2021.01 - EP US); D07B 2201/2041 (2013.01 - KR); D07B 2205/205 (2013.01 - EP US); D07B 2205/3003 (2013.01 - EP US); D07B 2501/2007 (2013.01 - EP KR US)

Cited by

US10472765B2; EP3392404A1; US10808355B2; WO2017068054A1; US11008702B2; EP2628698B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2008148704 A1 20080626; **US 7665289 B2 20100223**; AR 064128 A1 20090311; AU 2007237327 A1 20080619; AU 2007237327 A2 20090528; AU 2007237327 B2 20120517; BR PI0704413 A 20080722; CA 2638139 A1 20080604; CA 2638139 C 20150623; CN 101195970 A 20080611; CN 101195970 B 20121010; EP 1930497 A2 20080611; EP 1930497 A3 20090603; EP 1930497 B1 20120516; HK 1120840 A1 20090409; JP 2008150210 A 20080703; JP 5542302 B2 20140709; KR 101495343 B1 20150224; KR 20080051073 A 20080610; MX 2007014201 A 20090217; MY 151157 A 20140430; NO 20076205 L 20080605; NZ 563352 A 20081224; RU 2007144978 A 20090610; RU 2425187 C2 20110727; SG 143143 A1 20080627; TW 200837247 A 20080916; TW I472665 B 20150211; ZA 200710257 B 20081126

DOCDB simple family (application)

US 99922307 A 20071204; AR P070105417 A 20071204; AU 2007237327 A 20071203; BR PI0704413 A 20071130; CA 2638139 A 20071130; CN 200710194006 A 20071126; EP 07120990 A 20071119; HK 08112602 A 20081118; JP 2007300099 A 20071120; KR 20070124207 A 20071203; MX 2007014201 A 20071113; MY PI20071958 A 20071109; NO 20076205 A 20071203; NZ 56335207 A 20071113; RU 2007144978 A 20071203; SG 2007174683 A 20071105; TW 96141964 A 20071107; ZA 200710257 A 20071127