Title (en)

Device for detecting the end of service life for synthetic fibre ropes

Title (de)

Einrichtung zur Ablegereifeerkennung von Kunstfaserseilen

Title (fr)

Dispositif de détection de la fin de la durée d'utilisation pour câbles en fibres synthétiques

Publication

EP 1010803 B1 20030521 (DE)

Application

EP 99123810 A 19991201

Priority

- EP 99123810 A 19991201
- EP 98811203 A 19981207

Abstract (en)

[origin: EP1010803A2] Aramide fiber cable is built up of concentric strand layers (7,14) with opposite twist directions to give a balanced structure when new. Due to internal wear during use, the structure becomes unbalanced resulting in external twist. An indicator, e.g., an external visual marking (11) on the surface, is used to show the end of useful life when the cable has to be discarded.

IPC 1-7

D07B 1/14

IPC 8 full level

D07B 1/02 (2006.01); **D06H 1/00** (2006.01); **D07B 1/14** (2006.01)

CPC (source: EP KR US)

D07B 1/02 (2013.01 - KR); **D07B 1/14** (2013.01 - EP US); **D07B 1/145** (2013.01 - EP US); **D07B 1/148** (2013.01 - EP US); D07B 1/025 (2013.01 - EP US); D07B 2201/1016 (2013.01 - EP US); D07B 2201/1036 (2013.01 - EP US); D07B 2201/108 (2013.01 - EP US); D07B 2201/2074 (2013.01 - EP US); D07B 2205/205 (2013.01 - EP US); D07B 2401/2015 (2013.01 - EP US)

Cited by

EA017642B1; EP2657122A3; DE102007042680A1; DE102007042680B4; US10472765B2; USRE47035E; WO2008141623A3; US7866245B2; US8205535B2; US8176718B2; US10640922B2; WO2017068054A1; US10822742B2; US11008702B2

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EP 99123810 A 19991201; AR P990106244 A 19991207; AT 99123810 T 19991201; AU 6315999 A 19991206; BR 9907454 A 19991207; CA 2291582 A 19991206; CN 99125411 A 19991207; DE 59905634 T 19991201; DK 99123810 T 19991201; EG 155999 A 19991207; ES 99123810 T 19991201; HK 00107683 A 20001130; IL 13305099 A 19991119; JP 33365699 A 19991125; KR 19990055194 A 19991206; NO 996013 A 19991207; PT 99123810 T 19991201; TR 9902986 A 19991207; US 44933299 A 19991124; ZA 997230 A 19991122