

Title (en)

Synthetic fibre rope for use with a traction sheave

Title (de)

Kunstfaserseil zum Antrieb durch eine Seilscheibe.

Title (fr)

Câble en fibres synthétiques destiné à être utilisé avec une poulie d'entraînement

Publication

EP 1061172 B1 20040519 (DE)

Application

EP 00111777 A 20000603

Priority

- EP 00111777 A 20000603
- EP 99810512 A 19990611

Abstract (en)

[origin: US6508051B1] A synthetic fiber rope to be driven by a rope sheave is constructed as a twin rope consisting of two ropes with opposite directions of twist which extend parallel to and a fixed distance from each other. The ropes are surrounded by a rope sheath so as not to rotate when the twin rope runs over a rope sheave. The sheave acts as a torque neutralizer which, when the twin rope is loaded longitudinally, mutually offsets the oppositely oriented torques of the ropes which arise due to the structure of the rope, thereby causing over the entire cross-section of the twin rope equalization of the torques from the sum of all the parts having right-hand twist strands and all the parts having left-hand twist strands.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

B66B 7/062 (2013.01 - EP KR US); **D07B 1/025** (2013.01 - EP KR US); **D07B 1/162** (2013.01 - EP KR US); **D07B 1/22** (2013.01 - EP KR US); **D07B 2201/1008** (2013.01 - EP KR US); **D07B 2205/205** (2013.01 - EP KR US); **D07B 2401/2015** (2013.01 - EP KR US); **D07B 2501/2007** (2013.01 - EP KR US); **D10B 2331/021** (2013.01 - EP KR US)

Cited by

WO2011128224A1; DE10240988B4; EP3323769A1; EP1478801A4; EP1905891A3; EP1416082A1; EP1555233A4; EP1905892A3; DE102009027251A1; DE102009027251B4; US7086217B2; DE102008037541A1; WO2015113823A1; US8632432B2; US8939261B2; TWI420009B; EP1728916A1; EP1728915A1; US7757472B2; US8375691B2; WO2018091470A1

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US 6508051 B1 20030121; AR 024321 A1 20020925; AT E267287 T1 20040615; AU 3940900 A 20001214; AU 765731 B2 20030925; BR 0002617 A 20010109; BR 0002617 B1 20101228; CA 2311207 A1 20001211; CA 2311207 C 20070410; CN 1130487 C 20031210; CN 1277281 A 20001220; DE 50006459 D1 20040624; DK 1061172 T3 20040809; EP 1061172 A2 20001220; EP 1061172 A3 20010110; EP 1061172 B1 20040519; ES 2220295 T3 20041216; HK 1034547 A1 20011026; IL 136332 A0 20010520; IL 136332 A 20050619; JP 2000355888 A 20001226; JP 4748832 B2 20110817; KR 100656726 B1 20061215; KR 20010049493 A 20010615; NO 20002983 D0 20000609; NO 20002983 L 20001212; NO 316277 B1 20040105; PT 1061172 E 20041029; SG 106581 A1 20041029; TR 200001697 A2 20010122; TR 200001697 A3 20010122; ZA 200002574 B 20001201

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US 59197100 A 20000612; AR P000102847 A 20000607; AT 00111777 T 20000603; AU 3940900 A 20000609; BR 0002617 A 20000612; CA 2311207 A 20000609; CN 00109086 A 20000606; DE 50006459 T 20000603; DK 00111777 T 20000603; EP 00111777 A 20000603; ES 00111777 T 20000603; HK 01103925 A 20010607; IL 13633200 A 20000524; JP 2000157673 A 20000529; KR 20000030970 A 20000607; NO 20002983 A 20000609; PT 00111777 T 20000603; SG 200003476 A 20000620; TR 200001697 A 20000609; ZA 200002574 A 20000524