

Title (en)

Individually protected strand, its utilisation in construction and method for its manufacture

Title (de)

Individuell geschützte Litze, deren Verwendung in der Bautechnik und Verfahren zu deren Herstellung

Title (fr)

Toron individuellement protégé, son utilisation dans la construction, et procédé de fabrication

Publication

EP 1211350 B1 20040218 (FR)

Application

EP 01403085 A 20011130

Priority

FR 0015670 A 20001204

Abstract (en)

[origin: CA2364595A1] The strand comprises a group of twisted metal wires (2), a plastic sheath (4) and a pliant filling compound (3) which fills internal interstices between the twisted wires of the group and a peripheral interstice lying between the periphery of the group and the inner face of the sheath. This peripheral interstice has, in a cross section of the strand, an area of between $P \times e_{\min}$ and $0.6 \times S_2$, where P is the external perimeter of the group of wires, $e_{\min} = 0.05$ mm and S_2 is the cumulative area of the gaps lying between the periphery of the group and the smallest circle within which the group is inscribed.

IPC 1-7

D07B 1/14; **D07B 1/16**; **D07B 7/14**; **E01D 19/16**; **E04C 5/08**

IPC 8 full level

E01D 11/00 (2006.01); **D07B 1/06** (2006.01); **D07B 1/14** (2006.01); **D07B 1/16** (2006.01); **D07B 7/14** (2006.01); **E01D 11/02** (2006.01); **E01D 11/04** (2006.01); **E01D 19/16** (2006.01); **E04C 5/08** (2006.01)

CPC (source: EP KR US)

D07B 7/145 (2013.01 - EP US); **D07B 7/185** (2015.07 - EP US); **E01D 19/16** (2013.01 - EP US); **E04C 5/08** (2013.01 - EP KR US); **D07B 1/0693** (2013.01 - EP US); **D07B 2201/2044** (2013.01 - EP US); **D07B 2201/2046** (2013.01 - EP US); **D07B 2201/2076** (2013.01 - EP US); **D07B 2201/2085** (2013.01 - EP US); **D07B 2205/505** (2013.01 - EP US); **D07B 2401/2025** (2013.01 - EP US); **D07B 2501/2015** (2013.01 - EP US); **Y10T 428/2933** (2015.01 - EP US); **Y10T 428/2938** (2015.01 - EP US); **Y10T 428/294** (2015.01 - EP US)

Cited by

EP2339094A1; WO2011076866A1; FR2950094A1; CN110607706A; US9649667B2; US8336285B2; WO2015022068A3; WO2010069837A1; WO2012017135A1; US9085832B2; WO2020025872A1; EP2339094B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1211350 A1 20020605; **EP 1211350 B1 20040218**; **EP 1211350 B3 20090722**; AR 032483 A1 20031112; AT E259904 T1 20040315; AU 770955 B2 20040311; AU 9703401 A 20020606; BR 0105770 A 20020716; BR 0105770 B1 20100504; BR PI0105770 B8 20160705; CA 2364595 A1 20020604; CA 2364595 C 20060725; CN 1192141 C 20050309; CN 1357665 A 20020710; DE 60102061 D1 20040325; DE 60102061 T2 20041209; DE 60102061 T4 20091022; DK 1211350 T3 20040621; DK 1211350 T5 20091005; ES 2215867 T3 20041016; ES 2215867 T7 20091105; FR 2817566 A1 20020607; FR 2817566 B1 20030207; HK 1044575 A1 20021025; HK 1044575 B 20041224; JP 2002235291 A 20020823; KR 100513357 B1 20050907; KR 20020043447 A 20020610; MX PA01012437 A 20041110; MY 128643 A 20070228; PL 202247 B1 20090630; PL 351016 A1 20020617; PT 1211350 E 20040730; US 2002086158 A1 20020704; US 6692829 B2 20040217

DOCDB simple family (application)

EP 01403085 A 20011130; AR P010105467 A 20011123; AT 01403085 T 20011130; AU 9703401 A 20011203; BR 0105770 A 20011203; CA 2364595 A 20011203; CN 01142722 A 20011204; DE 60102061 A 20011130; DE 60102061 T 20011130; DK 01403085 T 20011130; ES 01403085 T 20011130; FR 0015670 A 20001204; HK 02105726 A 20020806; JP 2001369873 A 20011204; KR 20010075957 A 20011203; MX PA01012437 A 20011203; MY PI20015433 A 20011128; PL 35101601 A 20011203; PT 01403085 T 20011130; US 610701 A 20011204