

Title (en)

Extensible self-locking lace, in particular for manufacturing shoe laces

Title (de)

Ausziehbare selbsthemmende Schnur, insbesondere zur Herstellung eines Schnürsenkels

Title (fr)

Cordon de liaison extensible et autobloquant, notamment pour la réalisation de lacets de chaussures

Publication

EP 1795085 A1 20070613 (FR)

Application

EP 06125084 A 20061130

Priority

FR 0512327 A 20051206

Abstract (en)

The shoelace (1) has a flexible envelope for covering an elastic core which is constituted of rubber threads. The envelope has a twisted loop (12) stretched under a traction action applied to the lace on both sides of the twisted loop for lacing and tightening a shoe on a foot. The twisted loop is reformed after relaxation of the traction action for maintaining the tightening of the shoe using the lace.

IPC 8 full level

A43C 1/02 (2006.01); **A43C 11/22** (2006.01)

CPC (source: EP)

A43C 1/02 (2013.01); **A43C 9/00** (2013.01); **A43C 11/22** (2013.01); **D04C 1/02** (2013.01); **D04C 1/12** (2013.01); **D10B 2401/061** (2013.01); **D10B 2403/0333** (2013.01); **D10B 2501/063** (2013.01)

Citation (applicant)

- US 2005217089 A1 20051006 - LIN TZU S [TW]
- WO 0061844 A1 20001019 - QUEST TECHNOLOGIES INC [US], et al
- FR 2820003 A1 20020802 - PETROFF PIERRE GEORGES [FR]
- DE 20010500 U1 20011025 - KNAPP FRIEDRICH [DE], et al

Citation (search report)

- [AD] US 2005217089 A1 20051006 - LIN TZU S [TW]
- [AD] FR 2820003 A1 20020802 - PETROFF PIERRE GEORGES [FR]
- [A] US 5746265 A 19980505 - HOYT DAVID [US], et al
- [AD] DE 20010500 U1 20011025 - KNAPP FRIEDRICH [DE], et al
- [A] CH 224196 A 19421115 - STALDER OSKAR [CH]
- [A] WO 2004075676 A1 20040910 - KANG SHIN-GAB [KR]
- [A] US 5613283 A 19970325 - YUSFAN SHAY [IL]

Citation (third parties)

Third party :

EP 1216317 B1 20070328 - QUEST TECHNOLOGIES INC [US]

Cited by

WO2013149246A1; EP3792383A4; CN104486961A; FR2971676A1; US10165831B2; JP2015112445A; EP3805439A4; US11560656B2; US11339512B2; US9375052B2; WO2019084688A1; US9204689B2; WO2015014374A1; WO2022031516A1

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1795085 A1 20070613; EP 1795085 B1 20110720; AT E516719 T1 20110815; FR 2894115 A1 20070608; FR 2894115 B1 20080822

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