

Title (en)
Rope formed of threads, yarns or twines made of textile fibrous material

Title (de)
Seil aus Fäden, Garnen oder Litzen aus textilem Fasermaterial

Title (fr)
Cordage de fils, filés ou retors issus de matière textile fibreuse

Publication
EP 0150702 B2 19961002 (DE)

Application
EP 84890232 A 19841128

Priority
AT 31784 A 19840201

Abstract (en)
[origin: US4640178A] A rope comprises of twisted textile fibers in the form of threads, yarns, twines, ply yarns or strands, which fibers consist mainly of synthetic resin, and a reinforcement made of a material which has strength properties differing from those of the textile fibers. The rope is intended for industrial use or as a safety rope, particularly as a climbing rope. In order to increase the life and the abrasion resistance of the rope when it is frequently flexed and to increase the tensile strength of the rope when it extends around a sharp edge, those threads, yarns, twines, ply yarns and strands which consist of twisted textile fibers and are disposed on the outside surface of the rope or of a core of the rope are reinforced by monofilaments of synthetic resin or metal, and/or said threads, yarns, twines, ply yarns or strands of twisted textile fibers are or a core of the rope or the entire rope is provided with a covering consisting of wound or braided monofilaments.

IPC 1-7
D07B 1/02

IPC 8 full level
D07B 1/02 (2006.01)

CPC (source: EP US)
D07B 1/02 (2013.01 - EP US); **D07B 1/04** (2013.01 - EP US); **D07B 2201/2089** (2013.01 - EP US); **D07B 2201/209** (2013.01 - EP US)

Citation (opposition)
Opponent :

- DE 2222312 A1 19731122 - BATTELLE INSTITUT E V
- DE 2455273 A1 19760526 - FELTEN & GUILLEAUME CARLSWERK
- DE 1221926 B 19660728 - ALFRED DIETZ
- DE 1510114 A1 19700102 - KAUTSCHUK KUNSTSTOFF GMBH
- FR 2166695 A5 19730817 - SEINE & LYS

Cited by
US7797919B2; DE4035814A1; CN107815905A; EP2028308A3; CN109868666A; EP2415957A1; KR101137334B1; AT512517A4; AT512517B1; AT512508A4; AT512508B1; KR101137337B1; KR101137338B1; US9803482B2; US9845572B2; US9845571B2; US7703372B1; WO2006055995A1; WO2012045715A2; US10273609B2; US8136438B2; EP3967799A1; US11802372B2

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0150702 A2 19850807; EP 0150702 A3 19870429; EP 0150702 B1 19890705; EP 0150702 B2 19961002; AT E44395 T1 19890715; CA 1247471 A 19881228; DE 3478865 D1 19890810; FI 78129 B 19890228; FI 78129 C 19890612; FI 850402 A0 19850130; FI 850402 L 19850802; US 4640178 A 19870203

DOCDB simple family (application)
EP 84890232 A 19841128; AT 84890232 T 19841128; CA 472013 A 19850114; DE 3478865 T 19841128; FI 850402 A 19850130; US 69508085 A 19850125