

Title (en)
READY-TO-USE METAL WIRE AND METHOD FOR PRODUCING SAME

Title (de)
GEBRAUCHTSFERTIGES METALLDRAHT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
FIL METALLIQUE PRET A L'EMPLOI ET PROCEDE POUR OBTENIR CE FIL

Publication
EP 0877824 A1 19981118 (FR)

Application
EP 97900245 A 19970108

Priority
• FR 9700028 W 19970108
• FR 9600406 A 19960116

Abstract (en)
[origin: WO9726379A1] A ready-to-use metal wire comprising microalloyed steel with a structure almost entirely made up of work-hardened annealed martensite is disclosed. The wire diameter is of at least 0.10 mm and at most 0.50 mm, and the ultimate tensile strength of the wire is of at least 2800 MPa. The method for producing said wire comprises shaping a drawing stock wire, performing a tempering heat treatment on the shaped wire and heating it to an annealing temperature to cause the formation of a structure almost entirely made up of annealed martensite. The wire is then cooled and shaped. Assemblies comprising at least one such wire, and wires or assemblies used in particular for reinforcing tyre casings, are also disclosed.

IPC 1-7
C21D 8/06

IPC 8 full level
B21C 1/00 (2006.01); **C21D 1/26** (2006.01); **C21D 8/06** (2006.01); **C21D 9/52** (2006.01); **C22C 38/00** (2006.01); **C22C 38/12** (2006.01); **C22C 38/18** (2006.01); **C22C 38/24** (2006.01)

CPC (source: EP KR US)
C21D 8/06 (2013.01 - EP US); **C21D 8/065** (2013.01 - KR); **C21D 9/525** (2013.01 - KR); **C22C 38/12** (2013.01 - KR); **C22C 38/18** (2013.01 - KR); **C21D 2211/001** (2013.01 - KR); **C21D 2211/008** (2013.01 - EP KR US); **Y10T 428/12354** (2015.01 - EP US); **Y10T 428/12375** (2015.01 - EP US); **Y10T 428/12431** (2015.01 - EP US)

Citation (search report)
See references of WO 9726379A1

Designated contracting state (EPC)
BE DE ES FR GB IT

DOCDB simple family (publication)
WO 9726379 A1 19970724; AU 1383497 A 19970811; BR 9706987 A 19990720; CA 2243324 A1 19970724; CN 1079117 C 20020213; CN 1214085 A 19990414; DE 69703149 D1 20001026; DE 69703149 T2 20010517; EP 0877824 A1 19981118; EP 0877824 B1 20000920; ES 2150752 T3 20001201; FR 2743573 A1 19970718; JP 2000503724 A 20000328; KR 19990077252 A 19991025; RU 2177510 C2 20011227; US 6106637 A 20000822

DOCDB simple family (application)
FR 9700028 W 19970108; AU 1383497 A 19970108; BR 9706987 A 19970108; CA 2243324 A 19970108; CN 97193103 A 19970108; DE 69703149 T 19970108; EP 97900245 A 19970108; ES 97900245 T 19970108; FR 9600406 A 19960116; JP 52572697 A 19970108; KR 19980705397 A 19980715; RU 98115314 A 19970108; US 10165298 A 19980714