

Title (en)

METHOD FOR PRODUCING A HIGH-STRENGTH TRACK ELEMENT AND TRACK ELEMENT THUS OBTAINED

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HOCHFESTEN GLEISTEILS SOWIE GLEISTEIL

Title (fr)

PROCEDE DE FABRICATION D'UN ELEMENT DE VOIE A RESISTANCE ELEVEE, ET ELEMENT DE VOIE AINSI OBTENU

Publication

EP 1003920 B1 20011205 (DE)

Application

EP 98943853 A 19980806

Priority

- DE 19735285 A 19970814
- EP 9804894 W 19980806

Abstract (en)

[origin: US6315844B1] The invention relates to a high-strength steel track element, and process of making the steel track element by rolling and heat treating. The steel comprises: 0.3-0.6% C, 0.8-1.5% Si, 0.7-1.0% Mn, 0.9-1.4% Cr, 0.6-1.0% Mo, balance iron and smelting-related impurities. The steel has a bainitic basic structure, a tensile strength of at least 1600 N/mm² and a technical yield strength of at least 1250 N/mm².

IPC 1-7

C21D 9/04; **C21D 1/20**; **C22C 38/22**

IPC 8 full level

C21D 1/20 (2006.01); **C21D 9/04** (2006.01); **C22C 38/22** (2006.01); **E01B 7/00** (2006.01)

CPC (source: EP US)

C21D 1/20 (2013.01 - EP US); **C21D 9/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **E01B 7/00** (2013.01 - EP US);
C21D 2211/002 (2013.01 - EP US)

Cited by

DE102011014877A1; WO2012126550A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI LU NL PT SE

DOCDB simple family (publication)

US 6315844 B1 20011113; AT E210197 T1 20011215; AU 736649 B2 20010802; AU 9159598 A 19990308; DE 19735285 A1 19990218; DE 19735285 C2 20010823; DE 59802362 D1 20020117; DK 1003920 T3 20020402; EP 1003920 A1 20000531; EP 1003920 B1 20011205; ES 2169547 T3 20020701; NO 20000707 D0 20000211; NO 20000707 L 20000211; PL 189758 B1 20050930; PL 338544 A1 20001106; PT 1003920 E 20020531; WO 9909222 A1 19990225

DOCDB simple family (application)

US 46396800 A 20000419; AT 98943853 T 19980806; AU 9159598 A 19980806; DE 19735285 A 19970814; DE 59802362 T 19980806; DK 98943853 T 19980806; EP 9804894 W 19980806; EP 98943853 A 19980806; ES 98943853 T 19980806; NO 20000707 A 20000211; PL 33854498 A 19980806; PT 98943853 T 19980806