

Title (en)
A microalloy bainitic steel with high resistance to fatigue and to fretting fatigue

Title (de)
Mikrolegierter bainitischer Stahl mit hoher Ermüdungsfestigkeit

Title (fr)
Acier bainitique microallié hautement résistant à la fatigue

Publication
EP 1538231 B1 20100825 (EN)

Application
EP 04016413 A 20040713

Priority
IT MI20032370 A 20031203

Abstract (en)
[origin: EP1538231A1] A microalloy bainitic steel with high resistance to fatigue and to fretting fatigue comprising: C in quantities comprised between 0.15 and 0.35% by weight; Si and Mn in quantities comprised between 0.50 and 1.50% by weight for each element; Cr, Ni and Mo in quantities comprised between 0.10 and 1.00% by weight for each element and, small quantities of trace elements with microalloying properties.

IPC 8 full level
C22C 38/44 (2006.01); **C21D 1/18** (2006.01); **C21D 9/34** (2006.01); **C21D 1/78** (2006.01)

CPC (source: EP)
C21D 1/18 (2013.01); **C21D 9/34** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01); **C21D 1/78** (2013.01); **C21D 2211/002** (2013.01)

Cited by
EP3483298A4; AU2008265498B2; EP3460089A4; DE112008001181B4; CN104975229A; CN100374606C; CN104325838A; CN113186446A; WO2008154680A1; WO2019229693A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1538231 A1 20050608; EP 1538231 B1 20100825; AT E478970 T1 20100915; DE 602004028791 D1 20101007; ES 2350204 T3 20110120; IT MI20032370 A1 20050604; PL 1538231 T3 20110228

DOCDB simple family (application)
EP 04016413 A 20040713; AT 04016413 T 20040713; DE 602004028791 T 20040713; ES 04016413 T 20040713; IT MI20032370 A 20031203; PL 04016413 T 20040713