

Title (en)  
STEEL FOR FRACTURE SPLIT CONNECTING RODS

Title (de)  
STAHL FÜR BRUCHGESPALTENE VERBINDUNGSSTÄBE

Title (fr)  
ACIER POUR BIELLES FRACTIONNÉES DE TYPE FS

Publication  
**EP 2216423 A4 20141210 (EN)**

Application  
**EP 08858217 A 20081128**

Priority  
• JP 2008071702 W 20081128  
• JP 2007312523 A 20071203

Abstract (en)  
[origin: EP2216423A1] The present invention provides a steel for a fracture splitting type connecting rod, in which: the steel contains C: 0.25 - 0.5% (in mass %, the same is applied hereunder), Si: 0.01 - 2.0%, Mn: 0.50 - 2.0%, P: 0.015 - 0.080%, S: 0.01 - 0.2%, V: 0.02 - 0.20%, Cr: 0.05 - 1.0%, Ti: 0.01 - 0.10%, and N: 0.01% or less; an f-value represented by the expression shown below is in the range of 0.003 to 0.04; and the average aspect ratio of sulfide system inclusions is 15 or less,  $f = \text{Ti} - \text{N} \times 48 / 14$  (in the expression, [Ti] and [N] represent the contents (mass %) of Ti and N in a steel, respectively).

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)  
**C22C 38/002** (2013.01 - KR); **C22C 38/008** (2013.01 - KR); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR US); **C22C 38/38** (2013.01 - EP KR US)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 2009072445A1

Cited by  
EP2816131A4; US9951403B2; US9994943B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2216423 A1 20100811**; **EP 2216423 A4 20141210**; **EP 2216423 B1 20150930**; BR PI0819104 A2 20150707; CN 101883873 A 20101110; CN 101883873 B 20121031; JP 2009155724 A 20090716; JP 4264460 B1 20090520; KR 20100070386 A 20100625; US 2010266439 A1 20101021; WO 2009072445 A1 20090611

DOCDB simple family (application)  
**EP 08858217 A 20081128**; BR PI0819104 A 20081128; CN 200880118575 A 20081128; JP 2008071702 W 20081128; JP 2008286237 A 20081107; KR 20107012205 A 20081128; US 74049208 A 20081128