Title (en)

ROLLED MATERIAL FOR FRACTURE SPLIT CONNECTING ROD EXCELLING IN FRACTURE SPLITTABILITY, HOT FORGED PART FOR FRACTURE SPLIT CONNECTING ROD EXCELLING IN FRACTURE SPLITTABILITY, AND FRACTURE SPLIT CONNECTING ROD

Title (de)

GEROLLTES MATERIAL FÜR EINEN BRUCHGESPALTENEN VERBINDUNGSSTAB MIT HERVORRAGENDER BRUCHSPALTBARKEIT, GESCHMIEDETES TEIL FÜR EINEN BRUCHGESPALTENEN VERBINDUNGSSTAB MIT HERVORRAGENDER BRUCHSPALTBARKEIT UND BRUCHGESPALTENER VERBINDUNGSSTAB

Title (fr)

MATERIAU LAMINE POUR BIELLE A FISSURE DE RUPTURE PRESENTANT UNE EXCELLENTE CAPACITE DE FISSURE DE RUPTURE, ELEMENT FORGE A CHAUD POUR BIELLE PRÉSENTANT UNE EXCELLENTE CAPACITÉ DE FISSURE DE RUPTURE ET BIELLE A FISSURE DE RUPTURE

Publication

EP 2000553 B1 20120905 (EN)

Application

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Priority

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Abstract (en)

[origin: EP2000553A1] The present invention provides a rolled material having excellent fracture splitting characteristics and suitable for the manufacture of a connecting rod in which a through-hole section for assembly in a crankshaft is fracture split in substantially semicircles. Prescribed components are contained, an average aspect ratio of a sulfide-based inclusion as observed in a D/4 portion (D is the diameter of the rolled material) in a cross-section parallel to a longitudinal direction of the rod-shaped rolled material is not more than 10.0, a Pc indicated in Equation (1) below is between 0.41 and 0.75, and a Veq indicated in Equation (2) below is not less than 0.18 mass% Pc = C #¢ 1 - ± / 100 {In Equation (1), C represents the carbon content in steel (mass%) and ± represents the ferrite fraction (area ratio%)} Veq = V + Ti / 2 + Si / 20 {In Equation (2), V, Ti and Si represent the content of each element in steel (mass %)}.

IPC 8 full level

C22C 38/00 (2006.01); **B21K 1/14** (2006.01); **C21D 8/00** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)

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DOCDB simple family (application)

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