

Title (en)

MARAGING STEEL AND MARAGING STEEL FOR METALLIC BELT

Title (de)

MARTENSITAUSHÄRTENDER STAHL UND MARTENSITAUSHÄRTENDER STAHL FÜR METALLBAND

Title (fr)

ACIER VIEILLI THERMIQUEMENT ET ACIER VIEILLI THERMIQUEMENT POUR COURROIE MÉTALLIQUE

Publication

EP 2180073 A4 20110406 (EN)

Application

EP 07790636 A 20070711

Priority

JP 2007063832 W 20070711

Abstract (en)

[origin: EP2180073A1] A maraging steel for metallic belts which has a composition capable of being reduced in the content of TiN serving as a starting point for fatigue fracture in a high-cycle-rate region. The composition facilitates nitriding to heighten the surface hardness. The steel has a nitrided surface layer having increased compressive residual stress and hence improved flexural fatigue strength. In the steel, former austenite crystal grains have been reduced in size in order to secure higher strength and higher ductility. The maraging steel consists of, by mass%, up to 0.01% C, up to 0.1% Si, up to 0.1% Mn, up to 0.01% P, up to 0.005% S, 17.0-22.0% Ni, 0.1-4.0% Cr, 3.0-7.0% Mo, from more than 7.0 to 20.0% Co, up to 0.1% Ti, up to 2.5% Al, up to 0.03% N, up to 0.005% O, up to 0.01% B (exclusive zero), and the balance of Fe and unavoidable impurities, wherein $\text{Co}/3 + \text{Mo} + 4\text{Al}$ is 8.0-15.0%.

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/54** (2006.01)

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C22C 38/54 (2013.01 - EP KR US)

Citation (search report)

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US2018087123A1; US10731231B2

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DOCDB simple family (application)

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