

Title (en)

Contact pressure-resistant member and method of making the same

Title (de)

Kontaktdruckbeständiges Bauteil und Verfahren zu seiner Herstellung

Title (fr)

Élément résistant à une pression de contact et méthode de fabrication associée

Publication

EP 1512761 A1 20050309 (EN)

Application

EP 04019630 A 20040818

Priority

JP 2003209275 A 20030828

Abstract (en)

A contact pressure-resistant member including a rolling contact portion having a carbon concentration ranging from 0.8 to 1.2%. The contact pressure-resistant member is made of a steel material containing 0.15 to 0.40% by mass of C, 0.50 to 1.50% by mass of Si, 0.20 to 1.50% by mass of Mn, 0.50 to 1.50% by mass of Cr, and 0.05 to 0.50% by mass of Mo, 0.010% by mass or less of P, at least one element selected from the group consisting of 0.50 to 3.50% by mass of Ni, 0.03 to 0.20% by mass of Ti, 0.03 to 0.15% by mass of Nb and 0.01 to 0.10% by mass of Al, and the balance of Fe and inevitable impurities. <IMAGE>

IPC 1-7

C21D 9/36; C22C 38/18; C23C 8/22

IPC 8 full level

C21D 1/78 (2006.01); **C21D 9/00** (2006.01); **C21D 9/32** (2006.01); **C21D 9/36** (2006.01); **C21D 9/40** (2006.01); **C22C 38/00** (2006.01); **C22C 38/50** (2006.01); **C23C 8/22** (2006.01); **F16C 33/32** (2006.01); **F16C 33/34** (2006.01); **F16C 33/62** (2006.01); **F16H 15/38** (2006.01); **F16H 55/06** (2006.01); **F16H 55/17** (2006.01)

CPC (source: EP US)

C21D 1/78 (2013.01 - EP US); **C21D 9/36** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C23C 8/22** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 1512761 A1 20050309; JP 2005068453 A 20050317; US 2005045248 A1 20050303

DOCDB simple family (application)

EP 04019630 A 20040818; JP 2003209275 A 20030828; US 92133604 A 20040819