Title (en)

An Fe-Mn vibration damping alloy steel and a method for making the same.

Title (de)

Fe-Mn Stahl mit guten Schwingungsdämpfungseigenschaften und Verfahren zu dessen Herstellung.

Title (fr)

Acier de type Fe-Mn présentant d'excellentes propriétés d'amortissement de vibrations et procédure pour sa fabrication.

Publication

EP 0649914 A3 19951025 (EN)

Application

EP 94401992 A 19940907

Priority

KR 930021973 A 19931022

Abstract (en)

[origin: EP0649914A2] An Fe-Mn vibration damping alloy steel having a mixture structure of epsilon , alpha ' and gamma . The alloy steel consists of iron, manganese from 10 to 24 % by weight and limited amounts of impurities. The alloy steel is manufactured by preparing an ingot at a temperature of 1000 DEG C to 1300 DEG C for 12 to 40 hours to homogenize the ingot and hot-rolling the homogenized ingot to produce a rolled alloy bar or plate, performing solid solution treatment on the alloy steel at 900 DEG C to 1100 DEG C for 30 to 60 minutes, cooling the alloy steel by air or water, and cold-rolling the alloy steel at a reduction rate of below 30 % at around room temperature.

IPC 1-7

C22C 38/04

IPC 8 full level

C21D 6/00 (2006.01); **C21D 8/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/04** (2006.01)

CPC (source: EP KR)

C21D 6/005 (2013.01 - EP); **C21D 8/005** (2013.01 - EP); **C22C 38/04** (2013.01 - EP KR); C21D 2211/00 (2013.01 - EP); C21D 2211/008 (2013.01 - EP)

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