

Title (en)

Multiphase steel and method for its production

Title (de)

Mehrphasiger Stahl und Herstellungsverfahren

Title (fr)

Acier à plusieurs phases et procédé pour sa fabrication

Publication

**EP 1154028 A1 20011114 (EN)**

Application

**EP 01201725 A 20010510**

Priority

NL 1015184 A 20000512

Abstract (en)

The invention relates to a high-strength steel sheet, which is uncoated or galvanized, and is characterized by a microstructure comprising ferrite and hardening structures, namely martensite, bainite, pearlite and/or residual austenite. The steel has a high work hardening index during static and dynamic deformation. The yield point:tensile strength ratio is low, both during static and dynamic deformation, so that the steel is easy to work. The energy absorption during both static and dynamic deformation with 10-20% elongation is relatively high; it should be noted that 15% elongation is a typical value encountered in the event of a collision. The invention deals with high-strength cold-rolled steel for use in (automotive) components which are suitable for absorbing energy at high speed.

IPC 1-7

**C22C 38/04**; **C22C 38/12**; **C21D 1/18**; **C21D 8/02**

IPC 8 full level

**C21D 1/18** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C23C 2/02** (2006.01)

CPC (source: EP US)

**C21D 1/185** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP); **C22C 38/002** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C23C 2/02** (2013.01 - EP US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/024** (2022.08 - EP US)

Citation (search report)

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Designated contracting state (EPC)

GB

DOCDB simple family (publication)

**EP 1154028 A1 20011114**; NL 1015184 C2 20011113

DOCDB simple family (application)

**EP 01201725 A 20010510**; NL 1015184 A 20000512