

Title (en)

High strength hot rolled steel with high yield strength for use in the car industry

Title (de)

Hochfester warmgewalzter Stahl mit hoher Streckgrenze zur Verwendung in Kraftfahrzeugen

Title (fr)

Acier laminé à chaud à très haute limite d'élasticité et résistance mécanique utilisable notamment pour la réalisation de pièce de véhicules automobiles

Publication

**EP 1138796 A1 20011004 (FR)**

Application

**EP 01400777 A 20010327**

Priority

FR 0003958 A 20000329

Abstract (en)

A hot rolled steel with a very high elastic limit and mechanical strength for the production of motor vehicle components has the following composition by weight:- 0.08 - 0.2% carbon, 1 - 2% manganese, 0.02 - 0.1% aluminium, less than 0.5% silicon, less than 0.03% phosphorus, less than 0.01% sulphur, less than 0.3% vanadium, less than 1% chromium, less than 0.015% nitrogen, less than 0.6% molybdenum, the remainder being iron and inherent production impurities. An Independent claim is included for a method for the production of a hot rolled steel strip with this composition.

Abstract (fr)

Acier laminé à chaud à très haute résistance mécanique utilisable notamment pour la réalisation de pièce de véhicules automobiles caractérisée en la composition pondérale suivante : 0,08% < carbone < 0,16%, 1% < manganèse < 2%, 0,02% < aluminium < 0,1%, silicium < 0,5%, phosphore < 0,03%, soufre < 0,01%, vanadium < 0,3%, chrome < 1%, azote < 0,015%, molybdène < 0,6% <IMAGE>

IPC 1-7

**C22C 38/04**; **C22C 38/38**; **C21D 8/02**

IPC 8 full level

**C21D 8/0226** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/38** (2006.01); **C21D 1/19** (2006.01)

CPC (source: EP US)

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Citation (search report)

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