

Title (en)

CASE HARDENING STRUCTURAL STEEL, METHOD FOR OBTAINING SAME AND PARTS FORMED WITH SAME

Title (de)

ZEMENTIERTER BAUSTAHL, VERFAHREN ZU SEINER HERSTELLUNG UND DARAUS HERGESTELLTE FORMTEILE

Title (fr)

ACIER DE CONSTRUCTION CEMENTABLE, PROCEDE POUR SON OBTENTION ET PIECES FORMEES AVEC CET ACIER

Publication

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Application

EP 99970696 A 19991005

Priority

- FR 9902368 W 19991005
- FR 9813122 A 19981020

Abstract (en)

[origin: FR2784692A1] A novel case hardenable constructional steel has the composition (by wt.) 0.16-0.25 % C, 0.90-1.40 % Cr, 0.90-1.50 % Mn, 0.30-1.10 % Ni, 0.010-0.050 % Al, 0.20 % Mo, 0.40 % Si, 0.40 % Cu, 0.050 % S, and has a KC value of 4.00-4.65, where $KC = 8.34 \cdot C \% + 0.60 \cdot Si \% + Mn \% - 1.69 \cdot S \% + 0.30 \cdot Ni \% + 0.64 \cdot Cr \% + 2.55 \cdot Mo \% + 0.37 \cdot Cu \%$. Independent claims are also included for the following: (i) production of case hardened and heat treated parts of the above steel; (ii) steel parts, especially toothed wheels, having the above composition; and (iii) steel parts, especially toothed wheels, made by the above process.

IPC 1-7

C22C 38/40; **C22C 38/42**; **C22C 38/44**

IPC 8 full level

C22C 38/40 (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/60** (2006.01); **C21D 1/18** (2006.01)

CPC (source: EP)

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Citation (search report)

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