

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

**EP 1042524 A1 20001011 (FR)**

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)

**C22C 38/40** (2013.01); **C22C 38/42** (2013.01); **C22C 38/44** (2013.01); **C22C 38/60** (2013.01); **C21D 1/18** (2013.01)

Citation (search report)

See references of WO 0023632A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**FR 2784692 A1 20000421**; **FR 2784692 B1 20010309**; AR 020905 A1 20020605; BR 9916944 A 20011120; EP 1042524 A1 20001011; WO 0023632 A1 20000427

DOCDB simple family (application)

**FR 9813122 A 19981020**; AR P990105275 A 19991019; BR 9916944 A 19991005; EP 99970696 A 19991005; FR 9902368 W 19991005