

Title (en)

CARBONITRIDING OR CEMENTATION STEEL AND METHOD OF PRODUCING PARTS WITH SAID STEEL

Title (de)

CARBONITRIER- ODER EINSATZSTAHL UND VERFAHREN ZUR HERSTELLUNG VON TEILEN MIT DEM STAHL

Title (fr)

ACIER DE CEMENTATION ET DE CARBONITRURATION ET PROCESSUS DE FABRICATION DE PIECES A PARTIR DUDIT ACIER

Publication

EP 1876255 B1 20120606 (EN)

Application

EP 05742610 A 20050426

Priority

ES 2005000217 W 20050426

Abstract (en)

[origin: EP1876255A1] The invention relates to a carburized or carbonitrided steel and process of manufacturing parts from this steel, contemplating adding vanadium in amounts of less than 0.15% by weight in a carburized or carbonitrided steel. This addition together with a specific composition of the remaining elements aids in increasing the hardenability of the steel and in minimizing deformations when an area of the surface of a part for the manufacture of which said steel has been selected is subjected to a hardening treatment by carburizing or carbonitriding followed by quenching in a non-severe medium.

IPC 8 full level

C22C 38/22 (2006.01); **C22C 38/24** (2006.01); **C22C 38/40** (2006.01)

CPC (source: EP)

C22C 38/02 (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **C22C 38/42** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01)

Cited by

CN109898023A; US2015059933A1; US9574256B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1876255 A1 20080109; **EP 1876255 B1 20120606**; ES 2392286 T3 20121207; WO 2006114453 A1 20061102

DOCDB simple family (application)

EP 05742610 A 20050426; ES 05742610 T 20050426; ES 2005000217 W 20050426