

Title (en)

HARDENED AND TEMPERED STEEL AND METHOD FOR PRODUCING PARTS OF SAID STEEL

Title (de)

GEHÄRTETER UND GETEMPERTER STAHL UND VERFAHREN ZUR HERSTELLUNG VON TEILEN AUS DEM STAHL

Title (fr)

ACIER TREMPÉ ET DURCI ET PROCÉDÉ PERMETTANT DE PRODUIRE DES PIÈCES À PARTIR DUDIT ACIER

Publication

**EP 2159296 B1 20160316 (EN)**

Application

**EP 07730464 A 20070413**

Priority

ES 2007000224 W 20070413

Abstract (en)

[origin: EP2159296A1] The invention relates to a quench hardened and tempered steel with a specific composition of the following elements: 0.22% # C # 0.30%, 0.40% # Mn <1.00%, 1.00% # Cr # 2.50%, 1.80,% # Ni # 4.00%, 0.30% # Mo < 0.90% and 0.01 % # V < 0.50%, which with a method for obtaining said steel achieves low P and S contents, contributes to increasing the mechanical strength of the steel to values greater than 1200 N/mm<sup>2</sup> and with high toughness, KV resilience at low temperature, -20°C, with values greater than 60 J, when a part for the manufacture of which said steel has been selected is subjected to a specific quench hardening and tempering treatment.

IPC 8 full level

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Cited by

CN101831593A; EP3168319A4; US10428410B2; US9359653B2; WO2017141424A1; WO2017141425A1; WO2012058404A1

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