

Title (en)

MECHANICALLY-STRESSED ACTUATOR OR BEARING COMPONENT MADE FROM MECHANICALLY-HARDENED STEEL

Title (de)

MECHANISCH BELASTBARES STELL- ODER LAGERBAUTEIL AUS MECHANISCH GEHÄRTETEM STAHL

Title (fr)

ELEMENT PALIER OU POSITIONNEUR EN ACIER DURCI MECANIQUEMENT, POUVANT ETRE SOUMIS A DES CONTRAINTES MECANQUES

Publication

**EP 1805331 A1 20070711 (DE)**

Application

**EP 05804438 A 20051015**

Priority

- EP 2005011094 W 20051015
- DE 102004051885 A 20041026

Abstract (en)

[origin: WO2006045461A1] The invention relates to a mechanically-stressed actuator or bearing component, made from steel alloy, with an alloy component of less than 7 % and a carbon content of 0.5 - 2.2 %, with at least one mechanically-stressed functional area in use, whereby at least in the region of a functional surface (4) a metastable austenite is present, having a structural content of at least 80 %, which is at least partly transformed into martensite by a mechanical processing of the functional surface (4).

IPC 8 full level

**C21D 1/06** (2006.01); **C21D 7/06** (2006.01); **C21D 9/40** (2006.01); **C22C 38/00** (2006.01); **F16C 33/62** (2006.01)

CPC (source: EP)

**C21D 1/06** (2013.01); **C21D 7/06** (2013.01); **C21D 9/40** (2013.01); **C22C 38/00** (2013.01); **F01L 1/18** (2013.01); **F01L 2301/00** (2020.05)

Citation (search report)

See references of WO 2006045461A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**DE 102004051885 A1 20060427**; EP 1805331 A1 20070711; WO 2006045461 A1 20060504

DOCDB simple family (application)

**DE 102004051885 A 20041026**; EP 05804438 A 20051015; EP 2005011094 W 20051015