

Title (en)

USE OF A CHROMIUM STEEL HAVING A MARTENSITIC MICROSTRUCTURE AND CARBIDIC INCLUSIONS

Title (de)

"VERWENDUNG EINES CHROMSTAHL MIT MARTENSITISCHEM GEFÜGE UND KARBIDISCHEN EINSCHLÜSSEN"

Title (fr)

UTILISATION D'UN ACIER CHROMÉ À STRUCTURE MARTENSITIQUE ET INCLUSIONS DE CARBURE

Publication

**EP 2678459 B1 20150812 (DE)**

Application

**EP 12709281 A 20120224**

Priority

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- DE 102011102293 A 20110523
- EP 2012000809 W 20120224

Abstract (en)

[origin: WO2012113569A1] Use of a martensitic, in particular cobalt-free, chromium steel having carbide inclusions having a particle size of not more than 15 µm, which is composed of from 0.50 to 0.78% of carbon, from 0.20 to 1.30% of silicon, from 0.15 to 0.80% of nickel, from 0.30 to 1.00% of manganese, from 0.01 to 0.035% of sulphur, from 16 to 18% of chromium, from 1.25 to 1.50% of molybdenum, from 0.001 to 0.8% of tungsten, from 0.04 to 0.08% of nitrogen, from 0.15 to 0.20% of vanadium, from 0.001 to 0.04% of titanium, from 0.001 to 0.04% of niobium, from 0.001 to 0.03% of aluminium, from 0.02 to 0.5% of copper, from 0.001 to 0.04% of boron, balance iron including smelting-related impurities as pit corrosion- and frictional wear-resistant material for the food and luxuries industry and for surgical instruments.

IPC 8 full level

**C22C 38/22** (2006.01)

CPC (source: EP)

**C22C 38/22** (2013.01)

Cited by

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