

Title (en)
Use of a maraging steel as an armour plate

Title (de)
Verwendung eines martensitahärtenden Stahles in Form eines Panzerungsbleches

Title (fr)
Utilisation d'acier maraging comme tôle de blindage

Publication
EP 1008659 B1 20030625 (DE)

Application
EP 99123069 A 19991120

Priority
DE 19857156 A 19981211

Abstract (en)
[origin: EP1008659A1] Maraging steel sheet production comprises surface hardening of the maraged sheet at below the martensite to austenite transformation temperature. Production of a sheet of a maraging steel, especially of composition $\leq 0.03\%$ C, $\leq 0.1\%$ Si, $\leq 0.1\%$ Mn, $\leq 0.01\%$ P, $\leq 0.01\%$ S, $0.05\text{--}0.15\%$ Al, $17.0\text{--}19.0\%$ Ni, $7.0\text{--}16.0\%$ Co, $4.0\text{--}6.5\%$ Mo, $0.5\text{--}2\%$ Ti, optionally one or more of $\leq 0.5\%$ Cr, $\leq 0.5\%$ Cu, $\leq 0.2\%$ Nb, $\leq 0.2\%$ V, $\leq 0.2\%$ Zr and $\leq 0.2\%$ W, balance Fe and impurities, comprises age hardening by heating the sheet, especially after cutting and shaping, to a temperature below the martensite to austenite transformation temperature, the sheet then being additionally surface hardened at below the martensite to austenite transformation temperature. Preferred Features: Surface hardening is carried out by plasma nitriding, hard chromium plating or coating with a hard material.

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Cited by
DE102007039993A1; DE102008014914A1; EP2650388A1; US6361883B1; CN113549842A; CN114381696A; CN112251684A; DE102008010168A1; DE102008010168B4; DE102008014914B4; CN114000118A; WO2004013367A3; WO2006122731A1

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