

Title (en)

HEAT-TREATMENT PROCESS FOR A STEEL

Title (de)

WÄRMEBEHANDLUNGSVERFAHREN FÜR EINEN STAHL

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE POUR UN ACIER

Publication

EP 2198061 A1 20100623 (EN)

Application

EP 08835034 A 20081003

Priority

- SE 2008000544 W 20081003
- GB 0719457 A 20071004

Abstract (en)

[origin: WO2009045146A1] A process for inducing a compressive residual stress in a surface region of a steel component, the process comprising a heat treatment having the following steps: (i) providing a component comprising a steel composition; (ii) induction heating at least a part of the component followed by quenching said at least part, wherein the hardness in a surface region of the component is increased; and (iii) subsequently performing a martensite and/or bainite through hardening step to obtain a microstructure comprising martensite and/or bainite.

IPC 8 full level

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CPC (source: EP US)

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