

Title (en)  
THERMOCHEMICAL TREATMENT METHOD COMPRISING A SINGLE NITRIDING PHASE BEFORE CARBURISING

Title (de)  
THERMOCHEMISCHES BEHANDLUNGSVERFAHREN MIT EINER EINZIGEN NITRIERUNGSPHASE VOR DER AUFKOHLUNG

Title (fr)  
PROCEDE DE TRAITEMENT THERMOCHIMIQUE COMPORTANT UNE UNIQUE PHASE DE NITRURATION AVANT UNE CEMENTATION

Publication  
**EP 2986750 A1 20160224 (FR)**

Application  
**EP 14720174 A 20140313**

Priority

- FR 1353536 A 20130418
- FR 2014050581 W 20140313

Abstract (en)  
[origin: WO2014170566A1] A method for thermochemically treating steel parts to improve the mechanical properties of same, comprising the diffusion of carbon by carburising and of nitrogen by nitriding in a low pressure furnace following a temperature cycle, characterised in that it first comprises an increase to a first relatively low temperature (T1) at which it is possible to start nitriding the metal, then a single nitriding phase (N) at a temperature between said first temperature (T1) and a second carburising temperature (T2), then a single carburising phase (C), followed by diffusion (D) at said second temperature (T2) which remains constant, and finally the phase of quenching (T) the metal.

IPC 8 full level  
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CPC (source: EP)  
**C23C 8/02** (2013.01); **C23C 8/34** (2013.01); **C23C 8/80** (2013.01)

Citation (search report)  
See references of WO 2014170566A1

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