

Title (en)

METHOD OF NITRIDING A COMPONENT OF A FUEL INJECTION SYSTEM

Title (de)

VERFAHREN ZUM NITRIEREN EINES BAUTEILS EINES KRAFTSTOFFEINSPRITZSYSTEMS

Title (fr)

PROCÉDÉ DE NITRURATION D'UN COMPOSANT D'UN SYSTÈME D'INJECTION DE CARBURANT

Publication

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Application

EP 15726870 A 20150505

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Abstract (en)

[origin: WO2016005073A1] The invention relates to a method for nitriding a component of a fuel injection system, said component being loaded under high pressure and being composed of an alloyed steel. The method comprises the following steps: - activating the component in inorganic acid, - pre-oxidizing the component in oxygen-containing atmosphere between 380 °C and 420 °C, - nitriding the component between 520 °C and 570 °C at a high first nitriding potential KN₁ in the ε nitride range, - nitriding the component between 520 °C and 570 °C at a lower second nitriding potential KN₂ in the γ nitride range.

IPC 8 full level

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