

Title (en)

METHOD FOR ACTIVATING SURFACE OF METAL MEMBER

Title (de)

VERFAHREN ZUR AKTIVIERUNG DER OBERFLÄCHE EINES METALLBAUELEMENTS

Title (fr)

PROCEDE D'ACTIVATION DE SURFACE D'UN ELEMENT METALLIQUE

Publication

EP 1707646 B1 20090812 (EN)

Application

EP 05703844 A 20050119

Priority

- JP 2005000607 W 20050119
- JP 2004012328 A 20040120

Abstract (en)

[origin: EP1707646A1] A passivated film on a surface of a high-alloy steel member makes it difficult to apply diffusion treatment, such as gas nitriding or gas carburizing, that forms a nitrided layer, carburized layer or carbonitrided layer on the surface of the steel member. An activating treatment method is provided for the surface of the metal member. This method is not accompanied by problems of conventional activation treatment with a halide, such as furnace deposits, furnace wall erosion and effluent gas detoxification treatment, and is useful as pretreatment for diffusion treatment. According to this method, the passivated surface of the high-alloy steel member can be activated by using a gas commonly employed in gas heat treatment, and forming HCN gas in a heating furnace while making use of catalytic action of the steel member or a surface of the furnace.

IPC 8 full level

C23C 8/02 (2006.01)

CPC (source: EP KR US)

C23C 8/02 (2013.01 - EP KR US); **C23C 8/30** (2013.01 - KR); **C23C 8/32** (2013.01 - KR)

Cited by

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EP 1707646 A1 20061004; **EP 1707646 A4 20080903**; **EP 1707646 B1 20090812**; CN 1910303 A 20070207; CN 1910303 B 20100512; DE 602005015934 D1 20090924; JP 4861703 B2 20120125; JP WO2005068679 A1 20071227; KR 100858598 B1 20080917; KR 20060114368 A 20061106; US 2007204934 A1 20070906; WO 2005068679 A1 20050728

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