

Title (en)  
LOW PRESSURE CARBONITRIDING METHOD

Title (de)  
NIEDERDRUCK-CARBONITRIERUNGSVERFAHREN

Title (fr)  
PROCEDE DE CARBONITRURATION A BASSE PRESSION

Publication  
**EP 3230487 A1 20171018 (FR)**

Application  
**EP 15817994 A 20151210**

Priority  
• FR 1462260 A 20141211  
• FR 2015053419 W 20151210

Abstract (en)  
[origin: WO2016092219A1] The invention relates to a method for carbonitriding of a steel part arranged in a chamber, comprising first steps and second steps, a carburizing gas being injected into the chamber during the first steps only and a nitriding gas being injected into the chamber during the second steps only, at least one of the second steps being situated between two first steps, the pressure in the chamber during at least one part of said two first steps being maintained at a first value and the pressure in the chamber during at least one part of said second step situated between said two first steps being at a second value that is strictly greater than the first value.

IPC 8 full level  
**C23C 8/32** (2006.01); **C21D 1/06** (2006.01); **C21D 1/76** (2006.01); **C23C 8/34** (2006.01)

CPC (source: CN EP KR US)  
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Citation (search report)  
See references of WO 2016092219A1

Cited by  
AT524143A1; AT524143B1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (publication)  
**WO 2016092219 A1 20160616**; CA 2970247 A1 20160616; CA 2970247 C 20230912; CN 107406960 A 20171128; CN 107406960 B 20200922; EP 3230487 A1 20171018; EP 3230487 B1 20190508; FR 3029938 A1 20160617; FR 3029938 B1 20190426; JP 2018505301 A 20180222; JP 7177592 B2 20221124; KR 102576343 B1 20230907; KR 20170093855 A 20170816; MX 2017007484 A 20171002; US 11242594 B2 20220208; US 2017356077 A1 20171214

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