

Title (en)

LOW PRESSURE CARBONITRIDING METHOD FOR METAL ALLOY PARTS

Title (de)

VERFAHREN ZUM NIEDERDRÜCK-NITROCARBURIEREN METALLISCHER WERKSTÜCKE

Title (fr)

PROCEDE DE CARBONITRURATION A BASSE PRESSION DE PIECES EN ALLIAGE METALLIQUE

Publication

**EP 1080243 B1 20020717 (FR)**

Application

**EP 99915850 A 19990427**

Priority

- FR 9900998 W 19990427
- FR 9805311 A 19980428

Abstract (en)

[origin: FR2777911A1] Steel parts are carbo-nitrided with a fuel mixture of ethylene and hydrogen and ammonia (as active nitriding gas) at a pressure of less than 100 hPa and a temperature between 750 and 1050 deg C.

IPC 1-7

**C23C 8/32**

IPC 8 full level

**C23C 8/32** (2006.01)

CPC (source: EP)

**C23C 8/32** (2013.01)

Cited by

CN103946411A; US10156006B2; US10934611B2; US8303731B2; US8784575B2; US9617632B2; US10246766B2; US11035032B2; EP1885904B2

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AT BE CH DE ES FR GB IT LI LU PT

DOCDB simple family (publication)

**FR 2777911 A1 19991029; FR 2777911 B1 20000728**; AT E220732 T1 20020815; CA 2326239 A1 19991104; CA 2326239 C 20080219; DE 69902169 D1 20020822; DE 69902169 T2 20030227; EP 1080243 A1 20010307; EP 1080243 B1 20020717; ES 2179639 T3 20030116; PT 1080243 E 20021231; TW 460620 B 20011021; WO 9955928 A1 19991104

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