

Title (en)

METHOD FOR CLEANING METALLIC SURFACES

Title (de)

VERFAHREN ZUR REINIGUNG VON METALLOBERFLÄCHEN

Title (fr)

PROCEDE DE NETTOYAGE DE SURFACES METALLIQUES

Publication

EP 1114196 B2 20060412 (DE)

Application

EP 99942869 A 19990813

Priority

- DE 19840778 A 19980907
- EP 9905960 W 19990813

Abstract (en)

[origin: WO0014289A1] When metallic parts are annealed in an inert low-hydrogen atmosphere, carbon deposits often remain on the surface of said parts. The inventive method and device allow for controlled dampening of the dry inert low-hydrogen atmosphere and transformation of carbon deposits into volatile carbon oxides. Said method and device provide a soot-free annealing process and substantially prevent any mass transfer with the material.

IPC 8 full level

C21D 9/67 (2006.01); **C21D 1/76** (2006.01); **C23G 5/00** (2006.01)

CPC (source: EP)

C21D 1/76 (2013.01); **C23G 5/00** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0014289 A1 20000316; AT E217029 T1 20020515; DE 19840778 A1 20000309; DE 59901364 D1 20020606; EP 1114196 A1 20010711; EP 1114196 B1 20020502; EP 1114196 B2 20060412; PL 193048 B1 20070131; PL 346466 A1 20020211; YU 39999 A 20011226; YU 49428 B 20060116

DOCDB simple family (application)

EP 9905960 W 19990813; AT 99942869 T 19990813; DE 19840778 A 19980907; DE 59901364 T 19990813; EP 99942869 A 19990813; PL 34646699 A 19990813; YU 39999 A 19990820