

Title (en)

METHOD AND INSTALLATION FOR TREATING A METAL PART SURFACE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OBERFLÄCHENBEHANDLUNG VON METALLISCHEN WERKSTÜCKE

Title (fr)

PROCEDE ET INSTALLATION DE TRAITEMENT DE SURFACE D'UNE PIECE METALLIQUE

Publication

**EP 1062380 A1 20001227 (FR)**

Application

**EP 99939206 A 19990305**

Priority

- FR 9900507 W 19990305
- FR 9802897 A 19980310

Abstract (en)

[origin: FR2775986A1] Metal component is treated using a plasma gas to deoxidize and/or degrease its surface. Surface treatment of a metal component (12) by deoxidizing and/or degreasing, comprises: (a) filling an airtight enclosure (16), in which is arranged the component (12) to be treated, with a reducing gas mixture at low pressure; (b) establishing a static magnetic field in the distinct zone of the enclosure in which the component is placed; and (c) exciting the gas mixture by means of an electromagnetic wave injected into the enclosure in a manner to generate a plasma treatment gas. The intensity of the static magnetic field corresponds to the cyclotronic electronic resonance. An Independent claim is also included for an installation for performing the above surface treatment.

IPC 1-7

**C23G 5/00**; **B08B 7/00**

IPC 8 full level

**B08B 7/00** (2006.01); **C23G 5/00** (2006.01)

CPC (source: EP US)

**B08B 7/0035** (2013.01 - EP US); **C23G 5/00** (2013.01 - EP US)

Citation (search report)

See references of WO 9946428A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

**FR 2775986 A1 19990917**; **FR 2775986 B1 20000505**; EP 1062380 A1 20001227; JP 2002506128 A 20020226; US 6561198 B1 20030513; WO 9946428 A1 19990916

DOCDB simple family (application)

**FR 9802897 A 19980310**; EP 99939206 A 19990305; FR 9900507 W 19990305; JP 2000535787 A 19990305; US 62345600 A 20001106