

Title (en)
PROCESS FOR THE THERMOCHEMICAL TREATMENTS OF METALS BY ION BOMBARDMENT

Publication
EP 0062550 B1 19881012 (FR)

Application
EP 82400407 A 19820309

Priority
FR 8105107 A 19810313

Abstract (en)
[origin: US4490190A] A process for thermochemical treatment of metals with accurate control of the treatment temperature in a furnace having a structure similar to that of a classic furnace for thermal or thermochemical treatment in a rarified atmosphere, equipped with controlled heating means and, possibly cooling means, and comprising at least an anode and a cathode supporting the pieces to be treated. A cold plasma is generated around the pieces to be treated by applying between the anode and the cathode a pulse train at a relatively high frequency and of very short pulse width in relation to pulse repetition rate.

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C23C 14/00; **C23C 14/30**

IPC 8 full level
C23C 8/36 (2006.01); **C23C 14/00** (2006.01); **C23C 14/24** (2006.01); **C23C 14/30** (2006.01); **C23C 16/30** (2006.01); **C23C 16/50** (2006.01); **C23C 16/515** (2006.01)

CPC (source: EP US)
C23C 8/36 (2013.01 - EP US)

Cited by
FR2600082A1; US5948224A; FR2587729A1; FR2689976A1; US5346560A; DE3322341A1; US5833918A; US5868878A; DE4238993C1; EP0552460A1; EP0269251A1; DE3700633C1; US6878248B2; US6504690B2; WO8701738A1

Designated contracting state (EPC)
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