

Title (en)

Method and installation for the cementation of metallic alloy articles at low pressure.

Title (de)

Verfahren und Anlage zum Aufhärten eines Werkstückes aus einer metallischen Legierung unter niedrigem Druck.

Title (fr)

Procédé et installation de cémentation de pièces en alliage métallique à basse pression.

Publication

**EP 0465333 B1 19950301 (FR)**

Application

**EP 91401792 A 19910701**

Priority

FR 9008330 A 19900702

Abstract (en)

[origin: EP0465333A1] A fuel mixture is employed, consisting of hydrogen and ethylene in a proportion of 2 to 60% by volume of ethylene and the furnace is heated between 820 DEG and 1100 DEG C. <?>The plant comprises a so-called double-vacuum furnace (50) consisting of a vessel (55) with its internal device for distributing the case-hardening gases, an annular space (56) surrounding the vessel, a cover through which pass conduits for pumping and delivering hydrogen (51) and ethylene (52) opening into the various stages of the vessel at a number of uniformly spaced places, thermocouples (TC) and a microcomputer (61). <?>Application to motor vehicle components. <IMAGE>

IPC 1-7

**C23C 8/22; C23C 8/20**

IPC 8 full level

**C23C 8/22** (2006.01)

CPC (source: EP US)

**C23C 8/22** (2013.01 - EP US)

Citation (examination)

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Cited by

FR2763604A1; EP0885980A3; FR2847591A1; FR2827875A1; WO03012156A1; US10156006B2; US10934611B2; US9617632B2; US10246766B2; US11035032B2

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