

Title (en)

Low pressure carburising device with a plurality of sequentially arranged chambers

Title (de)

Niederdruck-Aufkohlungsanlage mit mehreren hintereinander angeordneten Kammern

Title (fr)

Installation pour la cémentation à basse pression avec des compartiments disposés les uns après les autres

Publication

EP 0829554 B2 20040512 (DE)

Application

EP 97890166 A 19970819

Priority

AT 163596 A 19960916

Abstract (en)

[origin: EP0829554A1] The apparatus for low-pressure carburisation of batches of workpieces comprises a means for transporting them through its various chambers. The transport means take the form of a roller conveyor (22). Batches (4) of workpieces pass successively through a vacuum-tight entry chamber (6), a vacuumisable heating chamber (7) with a nitrogen atmosphere under a pressure of 1-2 bar, at least one carburisation chamber (10, 11) with carburisation gas under a pressure preferably of 10-30 mbar, at least one diffusion chamber (13, 14), and finally a quenching chamber (17) for high-pressure gas quenching.

IPC 1-7

C23C 8/20; **C23C 8/22**; **C21D 1/773**

IPC 8 full level

C21D 1/773 (2006.01); **C23C 8/20** (2006.01); **C23C 8/22** (2006.01)

CPC (source: EP)

C21D 1/773 (2013.01); **C23C 8/20** (2013.01); **C23C 8/22** (2013.01)

Citation (opposition)

Opponent :

- JP H055852 U 19930126
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- Datenblatt No. 821 der Fa. C. I. Hayes Inc.
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CN110846612A; CN114293136A; EP1612291A1; CN110835722A; CN108315544A

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EP 0829554 A1 19980318; **EP 0829554 B1 20000426**; **EP 0829554 B2 20040512**; AT 404029 B 19980727; AT A163596 A 19971215; DE 59701501 D1 20000531

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