Title (en)
Quenching process after low pressure carburising

Title (de)
Abschreckverfahren nach Niederdruck-Aufkohlung

Title (fr)
Procédé de trempe après cémentation à basse pression

Publication
EP 1101826 A1 20010523 (FR)

Application
EP 00410142 A 20001116

Priority
- FR 9914449 A 19991117
- US 71552500 A 20001117

Abstract (en)
A method for quenching steel components after being subjected to a heat treatment process, such as cementation, at low pressure (Pcem), is characterised in that it consists of submitting the components to a flow of air at an elevated pressure (Ptrem), of between 5 and 50 bars. The duration of the hardening process is below 15 minutes and preferably less than 2 minutes. The heat treatment installation using this method for treating steel components is also claimed and incorporates a plurality of treatment cells and handling equipment for transferring the components between the different treatment cells.

Abstract (fr)
L'invention concerne un procédé de trempe de pièces d'acier ayant subi un traitement thermique à faible pression (Pcem) et une installation de traitement thermique, qui consiste à soumettre les pièces à un flux d'air à pression élevée (Ptrem). <IMAGE>

IPC 1-7 (main, further and additional classification)
C21D 1/613; C21D 9/00; C23C 8/22

IPC 8 full level (invention and additional information)
C21D 1/613 (2006.01); **C21D 9/00** (2006.01); **C23C 8/22** (2006.01); **C23C 8/80** (2006.01)

CPC (invention and additional information)
C21D 9/0062 (2013.01); **C21D 1/613** (2013.01); **C23C 8/22** (2013.01); **C23C 8/80** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
DE ES FR GB IT

EPO simple patent family
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INPADOC legal status

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2001-05-23 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:

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