Title (en)

Method for securing a controlled atmosphere heat treating chamber

Title (de)

Verfahren zum Sichern eines Gefässes für die thermische Behandlung in Schutzatmosphäre

Title (fr)

Procédé de mise en sécurisation d'une enceinte de traitement thermique fonctionnant sous atmosphère contrôlée

Publication

EP 1160342 B1 20051019 (FR)

Application

EP 01400953 A 20010412

Priority

FR 0006708 A 20000525

Abstract (en)

[origin: EP1160342A1] Heat treatment enclosure operating under a gas atmosphere is made safe by filling a cooling chamber with a controlled atmosphere with a high hydrogen content, confining a metal strip within the cooling chamber, and balancing the pressures of the gas atmospheres between the chambers. Making safe a heat treatment enclosure operating under a gas atmosphere, in which the enclosure includes a cooling chamber (5) for rapidly cooling a metal strip (1) running from an upstream chamber (2) to a downstream chamber (7) by means of guide rollers (3), involves filling the cooling chamber with a controlled atmosphere with a high hydrogen content, confining the strip within the cooling chamber by means of a pressure-balancing duct(s) (6) and of gas locks placed between the various chambers, and balancing the pressures of the gas atmospheres between the chambers by means of ducts controlling the flow rates of the gas flowing through the gas locks. An Independent claim is also included for a plant for implementing the invented method, including a pressure-balancing duct between the entry and the exit of the cooling chamber.

IPC 1-7

C21D 9/56

IPC 8 full level

C21D 1/74 (2006.01); **C21D 9/56** (2006.01); **C21D 9/573** (2006.01)

CPC (source: EP KR US)

C21D 1/74 (2013.01 - KR); **C21D 9/561** (2013.01 - EP KR US); **C21D 9/565** (2013.01 - EP KR US); **C21D 9/573** (2013.01 - KR); C21D 9/573 (2013.01 - EP US)

Cited by

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