

Title (en)

Process for supplying controlled atmosphere gases into a heat treatment furnace and heat treatment plant

Title (de)

Verfahren zur Schutzgasversorgung eines WärmebehandlungsOfens und Wärmebehandlungsanlage

Title (fr)

Procédé d'alimentation de gaz protecteur dans un four de traitement thermique et installation de traitement thermique

Publication

EP 0778354 B1 20010404 (DE)

Application

EP 96119651 A 19961206

Priority

DE 19545764 A 19951207

Abstract (en)

[origin: EP0778354A1] A protective gas for a heat treatment furnace with several zones is generated from the exit gas from an air separation unit. The gas fraction containing mainly nitrogen is passed into the intake zone and if necessary the exit zone of the furnace without further removal of oxygen. The protective gas used in the heating or treatment zone is obtained from at least a part of the oxygen rich gas fraction from the air separation unit mixed with natural gas or propane by heating and catalytic conversion to mainly carbon monoxide and hydrogen. Also claimed is a heat treatment furnace with a protective gas generating plant that includes an air separation unit (1) and a unit (2) for reacting O₂ with a hydrocarbon gas as described above.

IPC 1-7

C21D 1/76; **C21D 1/74**

IPC 8 full level

C21D 1/74 (2006.01); **C21D 1/76** (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP)

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Cited by

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