

Title (en)

METHOD OF HEAT TREATING, GAS CURTAIN DEVICE AND ITS USE IN HEAT TREATING FURNACES

Publication

EP 0206873 B2 19920708 (FR)

Application

EP 86401150 A 19860530

Priority

FR 8508470 A 19850605

Abstract (en)

[origin: ES8708018A1] The process comprises creating a screen of non-reactive or inert gas at least at one of the two ends of the heat treating zone or cooling zone of a furnace, the screen being substantially homogeneous and laminar throughout its height. The use of this process permits, on the one hand, a reduction in the flows of gas necessary for the heat treating and, on the other hand, the division of the heat treating furnace into precise zones. The invention is particularly applicable to heat treating furnaces.

IPC 1-7

C21D 1/74; F27D 7/06

IPC 8 full level

B22F 3/10 (2006.01); **C21D 1/74** (2006.01); **C23C 8/20** (2006.01); **C23C 8/24** (2006.01); **F27B 9/04** (2006.01); **F27D 7/06** (2006.01); **F27D 99/00** (2010.01); **F27B 9/14** (2006.01); **F27B 9/24** (2006.01)

CPC (source: EP KR US)

C21D 1/74 (2013.01 - EP KR US); **F27B 9/045** (2013.01 - EP US); **F27D 99/0075** (2013.01 - EP US); **F27B 9/14** (2013.01 - EP US); **F27B 9/243** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0206873 A1 19861230; EP 0206873 B1 19881228; EP 0206873 B2 19920708; AT E39501 T1 19890115; AU 5832786 A 19861211; AU 587256 B2 19890810; BR 8602604 A 19870203; CA 1277214 C 19901204; DE 3661542 D1 19890202; ES 555695 A0 19870901; ES 557554 A0 19871016; ES 8708018 A1 19870901; ES 8800412 A1 19871016; FR 2583064 A1 19861212; FR 2583064 B1 19870814; JP 2665333 B2 19971022; JP S6237317 A 19870218; KR 870000438 A 19870218; US 4746289 A 19880524; ZA 864139 B 19870225

DOCDB simple family (application)

EP 86401150 A 19860530; AT 86401150 T 19860530; AU 5832786 A 19860604; BR 8602604 A 19860604; CA 510863 A 19860604; DE 3661542 T 19860530; ES 555695 A 19860604; ES 557554 A 19870516; FR 8508470 A 19850605; JP 12827686 A 19860604; KR 860004463 A 19860605; US 86894486 A 19860530; ZA 864139 A 19860603