

Title (en)
Improvements in or relating to heating furnaces for iron and steel products

Title (de)
Verbesserung an Wärmöfen für Eisenhüttenprodukte

Title (fr)
Perfectionnements apportés aux fours de réchauffage de produits sidérurgiques

Publication
EP 0971192 B1 20040211 (FR)

Application
EP 99401285 A 19990528

Priority
FR 9807374 A 19980611

Abstract (en)
[origin: US6238210B1] A heating furnace reheats batches of iron steel products, which differ in their thermal state, introduced in succession into the furnace. The furnace has heating zones followed by at least two equalization zones, the products passing through at least one of these zones, at a speed different from that of the other zones. This speed can be adjusted depending on the thermal objective for the products to be reheated, and at least one of these zones is used as a heating zone.

IPC 1-7
F27B 9/20; **C21D 9/00**; **C21D 9/70**

IPC 8 full level
C21D 1/00 (2006.01); **C21D 9/00** (2006.01); **F27B 9/02** (2006.01); **F27B 9/14** (2006.01); **F27B 9/20** (2006.01); **F27B 9/40** (2006.01)

CPC (source: EP US)
C21D 9/0081 (2013.01 - EP US); **F27B 9/203** (2013.01 - EP US); **F27B 9/207** (2013.01 - EP US); **F27B 9/40** (2013.01 - EP US)

Cited by
WO2011077335A1; WO2018001931A1; US11193395B2

Designated contracting state (EPC)
AT BE DE ES GB IT LU NL

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US 6238210 B1 20010529; AT E259496 T1 20040215; CN 1138963 C 20040218; CN 1239216 A 19991222; DE 69914677 D1 20040318; DE 69914677 T2 20050113; EP 0971192 A1 20000112; EP 0971192 B1 20040211; ES 2212490 T3 20040716; FR 2779742 A1 19991217; FR 2779742 B1 20000811; JP 2000008119 A 20000111

DOCDB simple family (application)
US 32934699 A 19990610; AT 99401285 T 19990528; CN 99108357 A 19990610; DE 69914677 T 19990528; EP 99401285 A 19990528; ES 99401285 T 19990528; FR 9807374 A 19980611; JP 16560299 A 19990611