

Title (en)  
CATENARY TYPE FURNACE

Title (de)  
DURCHHANGOFEN

Title (fr)  
FOUR DE TYPE CONTINU

Publication  
**EP 1584694 B1 20120905 (EN)**

Application  
**EP 03776019 A 20031202**

Priority  
• JP 0315394 W 20031202  
• JP 2003006356 A 20030114

Abstract (en)  
[origin: EP1584694A1] An object of the present invention is to provide a catenary furnace which has high compatibility with environmental protection, is easy to maintain, and can satisfactorily perform heating treatment of a material by restraining fluctuations in furnace temperature. <??>In the present invention, in a catenary furnace (1) for heating a material (3), which is formed in a shape of a catenary curve and is conveyed in the longitudinal direction of a furnace casing (2), in the furnace casing (2) heated by burners, a lower burner, which is fired continuously toward the transverse direction of the furnace casing (2), is provided on the lower side of the material (3), and an alternate combustion type regenerative burner (5, 6), which has a pair of burners (5a, 5b, 6a, 6b) burned alternately and is fired toward the longitudinal direction of the furnace casing (2), is provided on the upper side of the material (3). <IMAGE>

IPC 8 full level  
**C21D 9/56** (2006.01); **F23L 15/02** (2006.01); **C21D 1/52** (2006.01); **F27D 17/00** (2006.01)

CPC (source: EP)  
**C21D 1/52** (2013.01); **C21D 9/56** (2013.01)

Designated contracting state (EPC)  
ES FI

DOCDB simple family (publication)  
**EP 1584694 A1 20051012**; **EP 1584694 A4 20060322**; **EP 1584694 B1 20120905**; CN 100419097 C 20080917; CN 1726293 A 20060125; ES 2394634 T3 20130204; JP 2004218000 A 20040805; JP 4278990 B2 20090617; WO 2004063403 A1 20040729

DOCDB simple family (application)  
**EP 03776019 A 20031202**; CN 200380106157 A 20031202; ES 03776019 T 20031202; JP 0315394 W 20031202; JP 2003006356 A 20030114