

Title (en)

Tower furnace for heat treatment of metal strips

Title (de)

Turmfen zur Wärmebehandlung von Metallbändern

Title (fr)

Four vertical de traitement thermique de bandes métalliques

Publication

EP 0897017 B1 20011031 (DE)

Application

EP 98890147 A 19980520

Priority

AT 99997 A 19970610

Abstract (en)

[origin: EP0897017A1] The tower furnace for heat treatment of metal strips (6) incorporates a muffle (3) which extends over the entire furnace height. An isolated plug (1) with an electric heating element (2) is inserted into the top section of the muffle, while below the plug there is a preferably gas heated preliminary heating space (4) for the strip.

IPC 1-7

C21D 9/56

IPC 8 full level

C21D 9/56 (2006.01); **C21D 9/00** (2006.01); **C21D 9/66** (2006.01); **F27B 5/14** (2006.01); **F27B 9/36** (2006.01)

CPC (source: EP US)

C21D 9/0043 (2013.01 - EP US); **C21D 9/66** (2013.01 - EP US)

Cited by

EP1167554A3

Designated contracting state (EPC)

AT BE DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0897017 A1 19990217; **EP 0897017 B1 20011031**; AT 405055 B 19990525; AT A99997 A 19980915; AT E207973 T1 20011115; DE 59801932 D1 20011206; ES 2167060 T3 20020501; JP 4077930 B2 20080423; JP H1150156 A 19990223; KR 19990006771 A 19990125; TW 410239 B 20001101; US 6031206 A 20000229

DOCDB simple family (application)

EP 98890147 A 19980520; AT 98890147 T 19980520; AT 99997 A 19970610; DE 59801932 T 19980520; ES 98890147 T 19980520; JP 15915698 A 19980608; KR 19980021202 A 19980609; TW 87108373 A 19980529; US 8683798 A 19980529