

Title (en)

METHOD AND HOOD-TYPE ANNEALING FURNACE FOR ANNEALING METAL BANDS AT HIGH TEMPERATURES

Title (de)

VERFAHREN UND HAUBENGLÜHOFEN ZUM HOCHTEMPERATUR-GLÜHEN VON METALLBAND

Title (fr)

PROCÉDÉ ET FOUR À CLOCHE POUR RECUIT À HAUTE TEMPÉRATURE DE BANDES MÉTALLIQUES

Publication

**EP 2486157 A1 20120815 (DE)**

Application

**EP 10784250 A 20101006**

Priority

- DE 102009049002 A 20091009
- EP 2010006097 W 20101006

Abstract (en)

[origin: WO2011042164A1] The invention relates to a method and a hood-type annealing furnace for annealing, at high temperatures, metal bands, sheet metal or wire, in particular grain oriented electric bands in the form of coils in an annealing chamber (5) under protective gas or in a protective gas atmosphere in an hood-type furnaces having a hearth with at least one charging area for a charge in the form of a coil or a coil-stack. Said hearth comprises at least one protective cover (4) which covers the charge and under which the annealing chamber (5) is embodied, a dynamic seal between the protective cover (4) and the hearth and a heating cover (1) which surrounds the protective cover (4) at a distance and under which the heating chamber is arranged. According to the invention, the heating chamber (3) is heated by burners (2), the open flames thereof being directed into the heating chamber (3) and a low pressure of at least 10 Pa and a maximum of 200 Pa in the annealing chamber (5) is maintained in relation to the heating chamber (3).

IPC 8 full level

**C21D 9/663** (2006.01); **C21D 9/673** (2006.01); **F27B 11/00** (2006.01); **F27D 7/06** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

**C21D 9/663** (2013.01); **C21D 9/673** (2013.01); **F27B 11/00** (2013.01); **F27D 7/06** (2013.01); **F27D 99/0033** (2013.01)

Citation (search report)

See references of WO 2011042164A1

Cited by

EP3715479A1; WO2020193634A1; EP3715480A1; WO2020193717A1; DE102020212723A1; WO2022073721A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2011042164 A1 20110414**; EP 2486157 A1 20120815; EP 2486157 B1 20171220; EP 2486157 B9 20180214; PL 2486157 T3 20180530; TR 201802112 T4 20180321

DOCDB simple family (application)

**EP 2010006097 W 20101006**; EP 10784250 A 20101006; PL 10784250 T 20101006; TR 201802112 T 20101006