

Title (en)  
Hot forming line

Title (de)  
Warmformlinie

Title (fr)  
Ligne de formage à chaud

Publication  
**EP 1867738 B1 20130109 (DE)**

Application  
**EP 07006511 A 20070329**

Priority  
DE 102006027625 A 20060613

Abstract (en)  
[origin: DE102006027625B3] The oven assembly for the thermal treatment of steel sheets or steel sheet components, comprises a heating zone (H), which is formed from an initial furnace module (16) and an end furnace module (17), between which an extension furnace module (18) is integratable. Each of the furnace modules is equipped with a heating mechanism (23) and has a conveyor (24). The length of the extension furnace module corresponds to the overall length of the initial furnace module and the end furnace module. The furnace modules are coupled with one another over flanges (19, 20). The oven assembly for the thermal treatment of steel sheets or steel sheet components, comprises a heating zone (H), which is formed from an initial furnace module (16) and an end furnace module (17), between which an extension furnace module (18) is integratable. Each of the furnace modules is equipped with a heating mechanism (23) and has a conveyor (24). The length of the extension furnace module corresponds to the overall length of the initial furnace module and the end furnace module. The furnace modules are coupled with one another over flanges (19, 20) situated at the end with the incorporation of a seal. The adjacent furnace modules are coupled with one another. The furnace module is provided with an inert gas supply. An independent claim is included for a hot forming line for the production of a hardened sheet metal.

IPC 8 full level  
**C21D 9/56** (2006.01); **C21D 1/18** (2006.01); **C21D 9/46** (2006.01); **F27B 9/02** (2006.01); **F27B 9/38** (2006.01); **F27B 9/39** (2006.01)

CPC (source: EP US)  
**C21D 1/18** (2013.01 - EP US); **C21D 1/673** (2013.01 - EP US); **C21D 9/0056** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C21D 9/56** (2013.01 - EP US); **F27B 9/02** (2013.01 - EP US); **F27B 9/38** (2013.01 - EP US); **F27B 9/39** (2013.01 - EP US)

Citation (examination)  
BANERJEE S N: "Integrated Channel Roller Hearth Furnace Line Technology", HEAT TREATING : INCLUDING STEEL HEAT TREATING IN THE NEW MILLENNIUM ; AN INTERNATIONAL SYMPOSIUM IN HONOR OF PROFESSOR GEORGE KRAUSS ; PROCEEDINGS OF THE 19TH CONFERENCE, 1 - 4 NOVEMBER 1999, CINCINNATI, OHIO / ASM INTERNATIONAL HEAT TREATING SOCIETY, 1 November 1999 (1999-11-01), pages 109 - 113, XP008133657, ISBN: 978-0-87170-681-2

Cited by  
CN106715725A; US10612108B2; WO2016012442A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102006027625 B3 20070809**; EP 1867738 A2 20071219; EP 1867738 A3 20080625; EP 1867738 B1 20130109; EP 1867738 B2 20160831; EP 1867738 B8 20130306; ES 2402579 T3 20130506; ES 2402579 T5 20170315; ES 2402579 T8 20141117; PL 1867738 T3 20130628; PL 1867738 T5 20170929; US 2008036124 A1 20080214

DOCDB simple family (application)  
**DE 102006027625 A 20060613**; EP 07006511 A 20070329; ES 07006511 T 20070329; PL 07006511 T 20070329; US 76163407 A 20070612