

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

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