

Title (en)

METHOD FOR HEAT TREATMENT OF A SHEET STEEL COMPONENT AND HEAT TREATMENT APPARATUS THEREFOR

Title (de)

VERFAHREN ZUR WÄRMEBEHANDLUNG EINES STAHLBLECHBAUTEILS UND WÄRMEBEHANDLUNGSVORRICHTUNG DAFÜR

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE D'UN ÉLÉMENT EN TÔLE D'ACIER ET DISPOSITIF DE TRAITEMENT THERMIQUE À CET EFFET

Publication

EP 3332041 B1 20240410 (DE)

Application

EP 16750160 A 20160805

Priority

- DE 102015215179 A 20150807
- EP 2016068746 W 20160805

Abstract (en)

[origin: WO2017025460A1] The invention relates to a method and to an apparatus for impressing a temperature profile onto a sheet steel component (200), wherein in one or more first areas (210), a temperature below the AC3 temperature can be impressed on the sheet steel component (200), and in one or more second areas (220), a temperature above the AC3 temperature can be impressed on the sheet steel component (200), and is characterized in that the sheet steel component (200) is firstly preheated in a production furnace (110), the sheet steel component (200) is then transferred into a thermal re-treatment station (150), wherein a radiant heat source (151) is moved over the component in the thermal re-treatment station (150), by means of which the one or more first areas (210) of the sheet steel component (200) can optionally be kept at a temperature above the AC3 temperature or or cooled down further, and the one or more second areas (220) of the sheet steel component (200) can optionally be heated to or or kept at temperature above the AC3 temperature.

IPC 8 full level

C21D 1/34 (2006.01); **C21D 8/04** (2006.01); **C21D 9/48** (2006.01); **F27B 9/06** (2006.01); **F27B 9/12** (2006.01); **F27D 11/12** (2006.01)

CPC (source: EP US)

C21D 1/34 (2013.01 - EP US); **C21D 8/0405** (2013.01 - EP US); **C21D 9/48** (2013.01 - EP US); **F27B 9/066** (2013.01 - EP US); **F27D 11/12** (2013.01 - EP US); **C21D 2221/00** (2013.01 - EP US); **F27B 2009/122** (2013.01 - EP US); **F27B 2009/124** (2013.01 - EP US)

Citation (examination)

- DE 102008030279 A1 20100107 - BENTELER AUTOMOBILTECHNIK GMBH [DE]
- DE 102011057007 A1 20130627 - BENTELER AUTOMOBILTECHNIK GMBH [DE]
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- WO 2017080624 A1 20170518 - HARDMESCH AB [SE]
- MOENCH HOLGER ET AL: "High Power VCSEL Systems : A tool for digital thermal processing", LASER TECHNIK JOURNAL, vol. 11, no. 2, 1 April 2014 (2014-04-01), pages 43 - 47, XP055828652, ISSN: 1613-7728, DOI: 10.1002/latj.201400024

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)

DE 102015215179 A1 20170209; CN 108026603 A 20180511; CN 108026603 B 20200609; EP 3332041 A1 20180613; EP 3332041 B1 20240410; EP 3332041 C0 20240410; US 2018231311 A1 20180816; WO 2017025460 A1 20170216

DOCDB simple family (application)

DE 102015215179 A 20150807; CN 201680046328 A 20160805; EP 16750160 A 20160805; EP 2016068746 W 20160805; US 201615751002 A 20160805