

Title (en)  
METHOD FOR HEATING A METAL COMPONENT TO A TARGET TEMPERATURE AND CORRESPONDING ROLLER HEARTH FURNACE

Title (de)  
VERFAHREN ZUM ERWÄRMEN EINES METALLISCHEN BAUTEILS AUF EINE ZIELTEMPERATUR UND ENTSPRECHENDER ROLLENHERDOFEN

Title (fr)  
PROCÉDÉ POUR CHAUFFER UNE PIÈCE MÉTALLIQUE À UNE TEMPÉRATURE FINALE ET FOUR À ROULEAUX CORRESPONDANT

Publication  
**EP 3676408 A1 20200708 (DE)**

Application  
**EP 18765599 A 20180831**

Priority  
• DE 102017120128 A 20170901  
• EP 2018073474 W 20180831

Abstract (en)  
[origin: WO2019043161A1] The method for heating a metal component (2) to a target temperature (3), in which the component (2) has a preliminary coating (7) and is passed through a furnace (1) that has at least four zones (9, 10, 11, 12), which can be respectively adjusted to an individual zone temperature (13, 14, 15, 3), wherein the component (2) is passed successively through at least an initial heating zone (9), a plateau zone (10), a peak heating zone (11) and an end zone (12) and wherein the initial heating zone (9) is adjusted to an initial heating temperature (13), the plateau zone (10) is adjusted to a plateau temperature (14), the peak heating zone (11) is adjusted to a peak temperature (15) and the end zone (12) is adjusted to the target temperature (3), the plateau temperature (14) being chosen such that the temperature of the component (2) in the plateau zone (10) lies in a band around a melting temperature of the preliminary coating (7), is characterized in that the peak temperature (15) lies at least 100 K [kelvins] above the target temperature (3).

IPC 8 full level  
**C21D 9/00** (2006.01); **F27B 9/24** (2006.01)

CPC (source: EP US)  
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**F27D 19/00** (2013.01 - EP); **F27D 21/00** (2013.01 - EP); **C21D 1/673** (2013.01 - EP)

Citation (search report)  
See references of WO 2019043161A1

Cited by  
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