Title (en)

METHOD AND SYSTEM FOR HEATING A FURNACE

Title (de)

VERFAHREN UND SYSTEM ZUM ERHITZEN EINES HOCHOFENS

Title (fr)

PROCÉDÉ ET SYSTÈME DE CHAUFFAGE D'UN FOUR

Publication

EP 3361199 A1 20180815 (EN)

Application

EP 17020049 A 20170209

Priority

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Abstract (en)

Method for operating a melting furnace (100) for a metal material (110), which furnace (100) comprises a heated space (101) being heated by at least one pair of two alternatingly operated regenerative burners (120,130). The invention is characterised in that the method comprises the steps a) providing an additional burner (150) for heating the melting furnace (100), which additional burner (150) is arranged for heating the said space (101) by combusting a fuel using an oxidant comprising at least 80% by weight oxygen; and b) controlling the additional burner (150) in a manner which is time synchronized with the operation of the said pair of regenerative burners (120,130), so that the additional burner (150) is operated with a higher power during a transition period when none of the regenerative burners (120,130) of said pair is fired, as compared to during a firing period when one of the regenerative burners (120,130) of said pair is fired but not the other.

IPC 8 full level

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CPC (source: EP)

F27B 3/20 (2013.01); F27B 3/205 (2013.01); F27D 99/0033 (2013.01); F27D 2099/0053 (2013.01)

Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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