

Title (en)

Process and device for improving the quality of steel or aluminium sheet during heat treatment in a continuous furnace

Title (de)

Verfahren und Vorrichtung zur Steigerung der Qualität von Stahl-oder Aluminiumbändern bei der Wärmebehandlung in einem Durchlaufofen

Title (fr)

Procedé et dispositif d'amélioration qualitative et quantitative de la production dans un four vertical de traitement de bandes d'acier ou d'aluminium

Publication

EP 1647604 B1 20150520 (FR)

Application

EP 05292110 A 20051011

Priority

FR 0410848 A 20041014

Abstract (en)

[origin: EP1647604A2] The procedure, in which steel or aluminium strip (3) passes round upper and lower rollers in a heating or cooling chamber (1), uses a computer (100) to provide real-time calculations of the heat profile of the rollers and the maximum admissible temperature of the metal strip for the most critical rollers. The calculations are effected by reference to at least one integrated physical heat exchange model including conduction exchanges between the strip and rollers, and strip heaters (4) are adjusted accordingly.

IPC 8 full level

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CPC (source: EP)

C21D 9/563 (2013.01); **F27B 9/28** (2013.01); **F27B 9/40** (2013.01); **C21D 9/562** (2013.01); **C21D 11/00** (2013.01)

Cited by

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