

Title (en)

METHOD AND COVER FURNACE FOR HEAT TREATMENT OF METAL SHEET IN ROLLS.

Title (de)

VERFAHREN UND HAUBENOFEN ZUR WÄRMEBEHANDLUNG VON FEINBLECHCOILS.

Title (fr)

PROCEDE ET FOUR A CUBILOT POUR LE TRAITEMENT THERMIQUE DE ROULEAUX DE BANDES METALLIQUES.

Publication

EP 0307474 A4 19900605 (DE)

Application

EP 87905555 A 19870327

Priority

SU 8700040 W 19870327

Abstract (en)

[origin: WO8807590A1] The method consists in placing the rolls of metal sheet in stacks with gaps, heating of the rolls and cooling them down under the muffle with forced circulation of a protective gas. The minimum value of the gap between the rolls placed in stacks is chosen with a view to ensuring substantial equality of the heat flows transferred through convection from the protective gas and through radiation from the muffle. The cover furnace for implementing the method comprises a stand with a built-in fan, on which, under the muffle and a heating cover, a stack of rolls separated from each other by convection rings (13, 14, 15) is placed. Each ring (13, 14, 15) comprises radial supporting ribs (16), interconnected by hollow intercostal partitions (17). The height (h) of the radial ribs (16) equals 0.15-0.4 of their length.

IPC 1-7

C21D 9/52; **C21D 9/663**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] DE 1219059 B 19660616 - VOEST AG
- [A] DE 1249901 B
- [A] US 3373983 A 19680319 - JOHNSON CARL G A, et al
- [A] US 4596526 A 19860624 - SOLIMAN MOHAMED M [US]
- [A] IRON AND STEEL ENGINEER, Band 60, Nr. 9, September 1983, Seiten 22-33, Pittsburgh, Pennsylvania, US; T.R.S. RAO et al.: "Computer model prediction of heating, soaking and cooling times in batch coil annealing"
- [A] IRON AND STEEL ENGINEER, Band 62, Nr. 6, June 1983, Seiten 39-45, Pittsburgh, Pennsylvania, US; A.B. PERRIN et al.: "Batch anneal modeling study"
- See references of WO 8807590A1

Cited by

US8226885B2; WO2009076686A1

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