

Title (en)

METHOD AND DEVICE FOR PREVENTING THE DENTING OF RAILS IN THE TRANSITION AREA BETWEEN THE END AND THE FULL SECTION OF THE TONGUE

Publication

**EP 0199706 A3 19870513 (DE)**

Application

**EP 86890076 A 19860324**

Priority

AT 88785 A 19850325

Abstract (en)

[origin: EP0199706A2] 1. Process for the heat treatment of rails in the transitional region between the tongue end and the control rail section, the rail being heated above the austenitizing temperature and thereafter being cooled in still air, characterized in that the heat treatment is carried out simultaneously with or immediately after the hot forming of the tongue rail end, in that the transitional region is heated over a depth of at least 7 mm and at most 25 mm, and in that the heat treatment is controlled in such a way that the length of the zone of structural change obtained as a result of the forming of the tongue is kept smaller than 30 mm in the longitudinal direction of the rail.

IPC 1-7

**C21D 9/04**

IPC 8 full level

**C21D 9/04** (2006.01)

CPC (source: EP)

**C21D 9/04** (2013.01)

Citation (search report)

- [A] DE 2821227 A1 19791122 - KRUPP AG HUETTENWERKE
- [AD] DE 2541978 A1 19770324 - KRUPP AG HUETTENWERKE [DE], et al
- [A] DE 1179973 B 19641022 - GERLACH KARL, et al
- [A] DE 800867 C 19501211 - DEUTSCHE BUNDESBAHN
- [A] GB 448416 A 19360527 - OXWELD RAILROAD SERVICE COMPAN
- [A] US 2484897 A 19491018 - LYTTLE ARTHUR R

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0199706 A2 19861029; EP 0199706 A3 19870513; EP 0199706 B1 19900314;** AT 391707 B 19901126; AT A88785 A 19900515; AT E51036 T1 19900315; CS 193786 A2 19890414; CS 266577 B2 19900112; DD 244990 A5 19870422; DE 3669538 D1 19900419; HU 195545 B 19880530; HU T43655 A 19871130; NO 161632 B 19890529; NO 161632 C 19890906; NO 861149 L 19860926; PL 145456 B1 19880930; YU 164387 A 19881231; YU 36586 A 19880630; YU 44545 B 19900831; YU 44642 B 19901031

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