

Title (en)

Process and apparatus for hardening rails

Title (de)

Verfahren und Einrichtung zum Härteln von Schienen

Title (fr)

Procédé et dispositif pour le durcissement de rails

Publication

**EP 1160341 A3 20040102 (DE)**

Application

**EP 01890152 A 20010522**

Priority

AT 9392000 A 20000529

Abstract (en)

[origin: EP1160341A2] Process for hardening rails or a rail head comprises: leveling the rails in the austenitic state; and horizontally positioning and clamping to prevent bending. While maintaining the clamping position, the rails and/or a part of the rail cross-section are partially cooled from a temperature which lies above the Ac<sub>3</sub> point of the alloy converting the structure from an austenitic structure to a room temperature stable microstructure. An Independent claim is also included for a device for hardening rails or a rail head comprising a rail supporting device formed as a support (2) with a longitudinal extension corresponding to the rail with positioning elements (3) and detachable clamps (4) for holding the rail.

IPC 1-7

**C21D 9/06**

IPC 8 full level

**C21D 9/04** (2006.01); **C21D 9/06** (2006.01); **C21D 1/02** (2006.01)

CPC (source: EP KR US)

**C21D 1/18** (2013.01 - KR); **C21D 1/63** (2013.01 - KR); **C21D 1/667** (2013.01 - KR); **C21D 9/04** (2013.01 - KR); **C21D 9/06** (2013.01 - EP US); **C21D 1/02** (2013.01 - EP US); **C21D 2211/001** (2013.01 - KR); **C21D 2221/01** (2013.01 - KR); **C21D 2221/02** (2013.01 - EP US)

Citation (search report)

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