

Title (en)

METHOD FOR PRODUCING A HOT ROLLED STRIP FROM AUSTENITIC RUST-RESISTANT STEELS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON WARMBAND AUS AUSTENITISCHEN NICHTROSTENDEN STÄHLEN

Title (fr)

PROCEDE DE PRODUCTION DE FEUILLARD LAMINE A CHAUD A PARTIR D'ACIERS AUSTENITIQUES INOXYDABLES

Publication

EP 1469954 B2 20090311 (DE)

Application

EP 03702404 A 20030109

Priority

- DE 10203711 A 20020131
- EP 0300119 W 20030109

Abstract (en)

[origin: US7922840B2] A method for producing hot-rolled strip from austenitic stainless steels. In a first step, a cast product is subjected to a rolling operation in a rolling mill with a finishing train, and, in a second step, a heat treatment is carried out to prevent susceptibility to corrosion, especially intergranular corrosion due to chromium carbide precipitation. To establish the final rolling temperature (T_{we}), a run-in temperature (T_{ein}) of the cast product into the finishing train of the rolling mill that is above 1,150° C., and preferably above 1,200° C., is established by a multistage heating process, especially a two-stage heating process, which comprises a preheating stage and an intensive heating stage, and the heat treatment is carried out by directly utilizing the rolling heat.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (opposition)

Opponent :

- US 5611232 A 19970318 - ROHDE WOLFGANG [DE], et al
- EP 0610028 B1 20000503 - HITACHI LTD [JP]
- NATIONAL ASSOCIATION OF CORROSION ENGINEERS: "Corrosion", CORROSION, vol. 46, 1990 - 1990, USA, pages 698 - 709
- GOSIO G.; MEYER P.: "I.S.P.an innovative technology based on thin slab concept for production of hot rolled strips", 1ST EUROPEAN CONFERENCE ON CONTINUOUS CASTING, 23 September 1991 (1991-09-23) - 25 September 1991 (1991-09-25), FLORENCE, ITALY, pages 2.31 - 2.51 (FIGURE 1 BIS 48)
- SCHÖNBERG J.: "Current status of the ISP technology and new developments", MPT, vol. 1, 1997 - 1997, AACHEN
- EHRENBERG H.-J.: "Casting and cast-rolling of thin slabs at the Mannesmannröhren-Werke AG", MPT, vol. 3, 1989 - 1989, DUISBURG, pages 52 - 58
- "In-line Strip Production Product Information", 25 January 1999, MANNESMANN DEMAG ENGINEERING, DUISBURG, GERMANY, article "ISP Plants"

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