

Title (en)

A HOT-ROLLED STEEL STRIP PRODUCT AND METHOD FOR ITS PRODUCTION

Title (de)

WARMGEWALZTES STAHLBANDPRODUKT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

PROCÉDÉ DE BANDE D'ACIER LAMINÉE À CHAUD ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 4180544 A1 20230517 (EN)

Application

EP 21207843 A 20211111

Priority

EP 21207843 A 20211111

Abstract (en)

A hot-rolled steel strip product having a tensile strength (R_{m}) above 1400 MPa and a microstructure comprising at least 90 % by volume of martensite. The steel has a composition comprising, in percent by weight (wt.-%): C 0.20 — 0.26, Si 0.05 — 0.5, Mn 0.2 — 0.8, Cr 0.2 — 0.6, Ni 0.2 — 0.5, Al 0.015 — 0.065, Ti 0.005 — 0.02, B 0.001 — 0.005, optionally Cu <0.30, optionally Mo <0.10, optionally Nb <0.01, optionally V <0.04, balance Fe and unavoidable impurities.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] EP 3719149 A1 20201007 - SSAB TECHNOLOGY AB [SE]
- [A] US 2015140358 A1 20150521 - YOKOYAMA TAKAFUMI [JP], et al
- [A] EP 2647730 A2 20131009 - RAUTARUUKKI OYJ [FI]
- [A] JP 4874434 B1 20120215
- [A] JP 2009030093 A 20090212 - JFE STEEL KK

Designated contracting state (EPC)

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Designated extension state (EPC)

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