

Title (en)
Method of manufacturing a thin sheet of low carbon steel

Title (de)
Verfahren zur Herstellung eines dünnen Bandes aus Weichstahl

Title (fr)
Procédé de fabrication d'une bande mince en acier doux

Publication
EP 0524162 B1 19981111 (FR)

Application
EP 92870104 A 19920713

Priority
• BE 9100673 A 19910717
• BE 9100732 A 19910809

Abstract (en)
[origin: EP0524162A2] The finishing rolling to a thickness of 0.5 mm to 2 mm is performed in a temperature range where the steel has a ferritic structure, with a rolling end temperature equal to or lower than 750 DEG C; the rolls employed for this finishing rolling are lubricated and the hot-rolled strip is then subjected to recrystallising tempering. The strip may be made of steel of the ULC-IF type and the temperature for starting the finishing rolling is then lower than 800 DEG C. The strip may also be made of steel of the ELC or ULC type, and the temperature for starting the finishing rolling is then between 750 DEG C and 550 DEG C or between 450 DEG C and 250 DEG C. The reduction ratio of the strip during the finishing rolling is equal to or greater than 50 %. Subsequently, the hot strip may be cold-rolled in at least one cold-rolling stage, with a total cold reduction ratio lower than or equal to 95 %, to a thickness smaller than or equal to 0.50 mm.

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C21D 8/04; **C21D 8/02**; **B21B 1/26**

IPC 8 full level
B21B 1/26 (2006.01); **C21D 8/02** (2006.01); **C21D 8/04** (2006.01); **B21B 27/10** (2006.01); **B21B 45/00** (2006.01); **B21B 45/02** (2006.01)

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Citation (examination)
EP 0306076 A1 19890308 - HOOGO VENS GROEP BV [NL]

Cited by
US6773522B1; US6616778B1; EP0761325A1; US6109336A; EP2128277A1; EP0659891A3; NL1000694C2; US6053996A; NL1007731C2; EP1627928A4; EP0718411A1; FR2728490A1; US5704997A; FR2730942A1; US6056832A; WO9726377A1; WO9701402A1; WO0036162A1; US6280542B1; WO2007132436A3; WO9800248A1; WO9626295A1; WO9929446A1; WO9746332A1; EP0681031B1

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