

Title (en)
PROCESS AND DEVICE FOR PRODUCING A STEEL STRIP WITH THE PROPERTIES OF A COLD-ROLLED PRODUCT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON STAHLBAND MIT KALTWALZEIGENSCHAFTEN

Title (fr)
PROCEDE ET DISPOSITIF DE PRODUCTION D'UNE FEUILLE D'ACIER PRESENTANT LES PROPRIETES D'UN PRODUIT LAMINE A FROID

Publication
EP 0804300 B1 19990506 (DE)

Application
EP 95932632 A 19950921

Priority

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- DE 19520832 A 19950531

Abstract (en)
[origin: US5832985A] PCT No. PCT/DE95/01347 Sec. 371 Date Apr. 21, 1997 Sec. 102(e) Date Apr. 21, 1997 PCT Filed Sep. 21, 1995 PCT Pub. No. WO96/12573 PCT Pub. Date May 2, 1996A process for producing a steel strip with properties of a cold-rolled product. The process including comprising the sequential steps of: a) producing a thin slab 30 to 100 mm thick from a steel melt by continuous casting in a continuous casting machine, and, after a cast strip emerges from a mold of the continuous casting machine, cast rolling the cast strip with a liquid core to reduce thickness of the cast strip by at least 10%; b) descaling the thin slab produced according to step a); c) hot rolling the descaled thin slab at temperatures in a range of 1150 DEG to 900 DEG C. for reducing thickness by at least 50% to produce an intermediate strip with a maximum thickness of 20 mm; d) after hot rolling, accelerated cooling of the intermediate strip to a temperature in a range of 850 DEG to 600 DEG C.; e) rolling down the cooled intermediate strip by isothermic rolling at 850 DEG to 600 DEG C. on a finishing train with at least three stands into strips with a maximum thickness of 2 mm, whereby the strip thickness is reduced by at least 25% per roll pass; and f) subsequently cooling the isothermic rolled steel strip in accelerated fashion to a temperature no greater than 100 DEG C.

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B21B 1/46; C21D 8/04

IPC 8 full level
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CPC (source: EP US)
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