

Title (en)
HOT ROLLING METHOD

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EP 0153849 A3 19860212 (EN)

Application
EP 85301178 A 19850222

Priority
• JP 3747884 A 19840229
• JP 10755384 A 19840529
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Abstract (en)
[origin: EP0153849A2] A hot rolling method using a hot finishing mill including a pair of work rolls each having a taper ground end at one end of its barrel and arranged one above the other with the taper ground ends being on opposite sides so as to locate both edges of a plate-like material to be rolled in respective zones of the taper ground ends. According to the invention the work rolls are cyclically shifted in their axial directions within a range so as not to permit the both edges of the material to come out of the taper ground ends of the work rolls, thereby preventing edge built-ups of the material and simultaneously effecting crown-controlling of the rolled material. The work rolls are finely shifted and simultaneously a bending action is applied to the work rolls in a manner to eliminate a bending action acting upon the work rolls caused by the material being rolled by the work rolls. The work rolls are cyclically shifted, while a distance from an edge of the material to a starting point of the taper ground end of the work roll nearest to the edge of the material is variably set so as to decrease dependently upon increase of thermal expansion of the work rolls. Stepwise variation in shifting distance of the work rolls per unit number of rolled material is varied in a rolling cycle.

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Citation (search report)
• [A] DE 2950473 A1 19800619 - NIPPON STEEL CORP
• [A] DE 2260256 A1 19730620 - HITACHI LTD
• [XP] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 227 (M-332)[1664], 18th October 1984; & JP - A - 59 110 401 (ISHIKAWAJIMA HARIMA JUKOGYO) 26-06-1984

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EP 85301178 A 19850222; AU 3911085 A 19850225; BR 8500894 A 19850228; CA 475265 A 19850227; DE 3585164 T 19850222; KR 850001288 A 19850228