

Title (en)  
METHOD AND DEVICE FOR CONTROLLED STRAIGHTENING AND COOLING OF A WIDE METAL STRIP, ESPECIALLY A STEEL STRIP OR SHEET METAL, RUNNING OUT OF A HOT ROLLED STRIP ROLLING MILL

Title (de)  
VERFAHREN UND EINRICHTUNG ZUM KONTROLLIERTEN RICHTEN UND KÜHLEN VON AUS EINEM WARMBAND-WALZWERK AUSLAUFENDEM, BREITEM METALLBAND, INSBESONDERE VON STAHLBAND ODER BLECH

Title (fr)  
PROCEDE ET DISPOSITIF POUR DRESSER ET REFROIDIR DE MANIERE REGULEE UN FEUILLARD METALLIQUE LARGE, NOTAMMENT UN FEUILLARD D'ACIER OU UNE TOLE, SORTANT D'UN LAMINOIR A CHAUD POUR FEUILLARDS

Publication  
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Application  
**EP 02785402 A 20021121**

Priority  
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Abstract (en)  
[origin: US2012024435A1] A method and device for controlled straightening and cooling of a wide metal strip, especially a steel strip or sheet metal, running out of a hot rolled strip rolling mill, using pinching rollers arranged in the moving direction of the strip behind vertical double rollers, said pinching rollers producing a tensile stress acting in a longitudinal direction. According to the invention, the range of use of conventional sheet metal cooling systems can be extended to obtain a more even surface of said steel strip with an increased cooling effect. This is achieved by displacing the metal strip or sheet metal between a pre-straightening machine and splash cooling facility in defined conditions of tensile stress by adjusting the tensile stress and by cooling said strip or sheet metal inside said splash cooling facility between successive pairs of pinching rollers and by additionally controlling the tensile stress.

IPC 8 full level  
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**WO 03054236 A1 20030703**; AT E328123 T1 20060615; AU 2002350708 A1 20030709; BR 0214598 A 20041103; CA 2469073 A1 20030703; CA 2469073 C 20111011; CN 100402672 C 20080716; CN 1606630 A 20050413; DE 10163070 A1 20030703; DE 50207037 D1 20060706; EP 1456421 A1 20040915; EP 1456421 B1 20060531; ES 2261757 T3 20061116; JP 2005512816 A 20050512; JP 4440643 B2 20100324; RU 2004122098 A 20050327; RU 2307718 C2 20071010; UA 77241 C2 20061115; US 2005016643 A1 20050127; US 2012024435 A1 20120202

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