

Title (en)  
METHOD FOR REDUCING THE THICKNESS OF A STRIP OF METAL BY HOT-ROLL-FORMING AND SYSTEM FOR ROLL-FORMING A STRIP OF METAL BY HOT-ROLL-FORMING

Title (de)  
VERFAHREN ZUR DICKENREDUZIERUNG EINES METALLBANDES DURCH WARMWALZFORMEN UND SYSTEM ZUM WALZFORMEN EINES METALLBANDES DURCH WARMWALZFORMEN

Title (fr)  
PROCÉDÉ PERMETTANT DE RÉDUIRE L'ÉPAISSEUR D'UNE BANDE DE MÉTAL PAR FORMAGE DE ROULEAUX À CHAUD ET SYSTÈME DE FORMATION D'UNE BANDE DE MÉTAL PAR FORMAGE DE ROULEAUX À CHAUD

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Application  
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Abstract (en)  
The present invention relates to a method for reducing the thickness of a strip of metal 121 by hot-roll-forming, wherein the strip of metal 123 comprises a first thickness of 2.0mm up to 5.0mm prior to the process and the strip of metal 123 with the first thickness is processed to a strip of metal 125 with a second thickness of 0.6mm to 2.5mm by at least one pair of rollers 103, wherein the second thickness is smaller than the first thickness, comprising the following steps:- heating the strip of metal 123 with the first thickness to a temperature above a recrystallization temperature of the metal, thus a pre-heated strip of metal 123 with the first thickness is present,- introducing the pre-heated strip 123 of metal with the first thickness into the pair of rollers 107, whereas the pair of rollers 107 is adjusted to a distance to reduce the first thickness to the second thickness by roll-forming,- processing the pre-heated strip of metal 123 with the first thickness through the pair of rollers 107, thus the strip of metal 125 with the second thickness is formed,thus, the thickness of a strip of metal 121 is reduced. The invention further relates to a system for roll-forming a strip of metal 121 by hot-roll-forming.

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• [IY] CN 109881083 A 20190614 - JIANGSU SHAGANG GROUP CO LTD, et al  
• [Y] EP 2580001 A2 20130417 - DANIELI OFF MECC [IT]  
• [I] US 5419172 A 19950530 - KIM YONG-WU [US]

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