

Title (en)
METHOD FOR CONTINUOUSLY CASTING BETWEEN TWO ROLLS AUSTENITIC STAINLESS STEEL STRIPS WITH EXCELLENT SURFACE QUALITY AND RESULTING STRIPS

Title (de)
VERFAHREN ZUM STRANGGIESSEN ZWISCHEN ZYLINDERN VON AUSTENITISCHEN ROSTFREIEN STAHLBÄNDERN HOHER OBERFLÄCHENQUALITÄT UND DIE SO HERGESTELLTEN BÄNDER

Title (fr)
PROCEDE DE COULEE CONTINUE ENTRE CYLINDRES DE BANDES D'ACIER INOXYDABLE AUSTENTIQUE D'EXCELLENTE QUALITE DE SURFACE, ET BANDES ANSI OBTENUES

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Application
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Abstract (en)
[origin: US6739383B1] The invention concerns a method for continuously casting an austenitic stainless steel strip with a thickness not more than 10 mm, directly from liquid metal, between two cooled horizontal rolls, characterised in that: said steel composition in weight proportions comprises: %C<=0.08%; %Si<=1; %P<=0.04; %Mn<=2; %Cr between 17 and 20; %Ni between 8 and 10.5; %S between 0.007 and 0.040; the rest being iron and the impurities resulting from preparation; the ratio Creq/Nieq ranges between 1.55 and 1.90 with: Creq(%)=%Cr+1.37 %Mo+1.5 %Si+2%Nb+3 %Ti; Nieq(%)=%Ni+0.31 %Mn+22 %C+14.2 %N+Cu; the surface of the rolls comprises contiguous dimples with more or less circular or elliptical cross-section, of diameter between 100 and 1500 µm and depth between 20 and 150 µm; the inerting gas surrounding the meniscus is a gas soluble in steel or a mixture of such gases, or consists of at least 50% by volume of such a gas or mixture of gases.

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