

Title (en)  
METHOD FOR MAKING A HOT ROLLED THIN CAST STRIP PRODUCT

Title (de)  
HERSTELLUNGSVERFAHREN FÜR EIN HEISSGEWALZTES DÜNNES GUSSBANDPRODUKT

Title (fr)  
PROCÉDÉ DE PRODUCTION D' UN PRODUIT DE COULÉE EN BANDE MINCE LAMINÉE À CHAUD

Publication  
**EP 2398602 A1 20111228 (EN)**

Application  
**EP 10743332 A 20100220**

Priority  
• AU 2010000189 W 20100220  
• US 15423309 P 20090220

Abstract (en)  
[origin: US2010215981A1] A hot rolled steel strip made by the steps including assembling a twin roll caster, forming a casting pool of molten steel having a free oxygen content between 20 and 75 ppm and having a composition such that the cast strip comprises by weight, less than 0.25% carbon, between 0.9 and 2.0% manganese, between 0.05 and 0.50% silicon, greater than 0.01% and less than or equal to 0.15% phosphorus, and less than 0.01% aluminum, counter rotating the casting rolls forming the steel strip, hot rolling the strip such that mechanical properties at 10% and 35% reduction are within 10% for yield strength, tensile strength and total elongation, and coiling the strip at a temperature between 300 and 700° C. to provide a majority of the microstructure comprising bainite and acicular ferrite. Alternatively, the steel may have between 0.20 and 0.60% copper and manganese as low as 0.08%.

IPC 8 full level  
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