

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

Title (de)
DÜNNES GEGOSSENES WARMBANDPRODUKT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
PRODUIT DE BANDE MINCE COULÉE LAMINÉE À CHAUD ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 3431201 A3 20190313 (EN)

Application
EP 18190655 A 20100220

Priority
• US 15423309 P 20090220
• EP 10743332 A 20100220
• AU 2010000189 W 20100220

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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Citation (search report)
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