

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 A2 20190123 (EN)

Application
EP 18190655 A 20100220

Priority
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• AU 2010000189 W 20100220

Abstract (en)
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 DEG 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%.

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CPC (source: EP US)
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Citation (applicant)
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US 70863510 A 20100219; AU 2010000189 W 20100220; AU 2010215077 A 20100220; AU 2017202997 A 20170505; CN 201080008606 A 20100220; CN 201510522890 A 20100220; EP 10743332 A 20100220; EP 18190655 A 20100220; JP 2011550383 A 20100220; KR 20117018562 A 20100220; MY PI2011700114 A 20100220; PL 10743332 T 20100220; RU 2011138463 A 20100220