

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  
• US 15423309 P 20090220  
• EP 10743332 A 20100220  
• 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%.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (applicant)  
• US 5184668 A 19930209 - FUKASE HISAHIKO [AU], et al  
• US 5277243 A 19940111 - FUKASE HISAHIKO [AU], et al  
• US 5488988 A 19960206 - FUKASE HISAHIKO [JP], et al  
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**US 2010215981 A1 20100826**; AU 2010215077 A1 20110728; AU 2010215077 B2 20170525; AU 2017202997 A1 20170601; AU 2017202997 B2 20190117; CN 102325608 A 20120118; CN 102325608 B 20151125; CN 105215299 A 20160106; EP 2398602 A1 20111228; EP 2398602 A4 20140924; EP 2398602 B1 20181031; EP 3431201 A2 20190123; EP 3431201 A3 20190313; JP 2012518539 A 20120816; JP 5509222 B2 20140604; KR 101715086 B1 20170310; KR 20110117142 A 20111026; MY 173389 A 20200122; PL 2398602 T3 20190430; RU 2011138463 A 20130327; RU 2532794 C2 20141110; WO 2010094076 A1 20100826

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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