

Title (en)  
Process for manufacturing magnetic steel strip by direct casting

Title (de)  
Verfahren zur Herstellung von magnetischen Stahlbändern durch Direktgiessen

Title (fr)  
Procédé d'élaboration d'une bande d'acier magnétique par coulée directe

Publication  
**EP 0540405 B1 19970122 (FR)**

Application  
**EP 92402903 A 19921026**

Priority  
FR 9113499 A 19911031

Abstract (en)  
[origin: EP0540405A1] Process for manufacturing a magnetic steel strip which has a thickness of less than 5 mm and contains, in composition by weight, more than 2 % of silicon, less than 0.1 % of carbon and elements which inhibit secondary recrystallisation in an appropriate quantity, the remainder being iron, obtained by direct casting on a cylinder or between two cylinders, which process is characterised in that a crystallisation structure is created, comprising {110} <001> oriented grains as a skin, that is to say at the surface of the quenching zone, due to the abrupt cooling of the steel in contact with the roll(s), the surface temperature of which is lower than 400 DEG C. <IMAGE>

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**C21D 8/12**; **B22D 11/06**

IPC 8 full level  
**C21C 1/02** (2006.01); **B22D 11/06** (2006.01); **B22D 27/20** (2006.01); **C21D 8/12** (2006.01)

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