

Title (en)

Method for manufacturing a high strength steel sheet

Title (de)

Herstellungsverfahren für ein hochfestes Stahlblech

Title (fr)

Procédé de fabrication d'une tôle d'acier à haute résistance

Publication

EP 1559797 A1 20050803 (EN)

Application

EP 05001139 A 20050120

Priority

- JP 2004020843 A 20040129
- JP 2004326545 A 20041110

Abstract (en)

The high strength steel sheet consists essentially of 0.05 to 0.15% C, 0.5% or less Si, 1.00 to 2.00% Mn, 0.09% or less P, 0.01% or less S, 0.005% or less N, 0.01 to 0.1% Sol.Al, and balance of Fe and inevitable impurities; and contains 60% or more polygonal ferrite by volume, and 5 to 30% martensite by volume. The steel sheet is manufactured by the steps of: casting a slab having the specified composition; hot-rolling the slab at Ar₃ point or more temperature; beginning cooling the hot-rolled steel sheet within 2 seconds after completing the hot-rolling to a temperature of from 750 DEG C to 600 DEG C at a cooling rate of 150 DEG C/s or more; holding the cooled steel sheet at a temperature between 750 DEG C and 600 DEG C for 2 to 15 seconds; cooling the steel sheet at a cooling rate of 20 DEG C/s or more; and coiling the cooled steel sheet at a temperature of 400 DEG C or less. <IMAGE>

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IPC 8 full level

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