

Title (en)

Twin roll strip casting method for a high carbon martensitic steel grade and use of the cast strip

Title (de)

Zweirollen-Giessverfahren zum Herstellen eines hohe Kohlenstoffgehalte aufweisenden martensitischen Stahlbands und Verwendung eines solchen Stahlbands

Title (fr)

Méthode de coulée directe de bandes minces d'acier à haut carbone martensitique et utilisation de la bande

Publication

**EP 1354649 B1 20060809 (DE)**

Application

**EP 03001761 A 20030128**

Priority

DE 10215597 A 20020410

Abstract (en)

[origin: EP1354649A1] Production of a martensitic steel strip having a high carbon content comprises melting a steel, casting the melt in a casting gap formed between two rotating rollers to form a thin strip having a thickness of maximum 10 mm, and rapidly cooling at a cooling speed of at least 200 K/s. Production of a martensitic steel strip having a high carbon content comprises: melting a steel; casting the melt in a casting gap formed between two rotating rollers to form a thin strip having a thickness of maximum 10 mm; and rapidly cooling at a cooling speed of at least 200 K/s. The steel comprises (in wt.%): at least 0.15 carbon (C), 12.0-20.0 chromium (Cr), at most 1.0 silicon (Si), at most 2.0 manganese (Mn), at most 2.0 molybdenum (Mo), at most 1.0 nickel (Ni), at most 1.0 vanadium (V), at most 0.1 nitrogen (N), at most 0.1 titanium (Ti) and a balance of iron (Fe) and impurities.

IPC 8 full level

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CPC (source: EP)

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Cited by

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