

Title (en)

Process for manufacturing metallic strip having differing material properties through their section

Title (de)

Verfahren zum Herstellen von metallischen Bändern mit Abschnitten unterschiedlicher Materialeigenschaften

Title (fr)

Procédé pour la fabrication de bandes métalliques comportant des propriétés de matériaux différents à travers la section

Publication

EP 1238727 B1 20041208 (DE)

Application

EP 02002748 A 20020207

Priority

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Abstract (en)

[origin: EP1238727A2] Production of metallic strips (B) having sections of different material properties comprises: (i) melting a low alloyed or micro-alloyed steel; (ii) casting the steel in the casting gap (2) formed between walls of a casting machine (1); and (iii) cooling the cast strip. The force (G1, G2) exerted on the strip in the casting gap and measured over the width of the strip is more than 100 kN/m. Preferred Features: The steel contains (in wt.%) 0.01-0.80 C, 0.30-5.00 Mn, ≤ 0.50 Cr, ≤ 0.10 Al, ≤ 0.80 Si, ≤ 0.05 Ti, ≤ 0.05 Nb, ≤ 0.05 Nb, ≤ 0.01 N, ≤ 0.02 S, ≤ 0.02 P, ≤ 0.2 Ni, ≤ 0.1 Mo, ≤ 0.1 W and a balance iron and unavoidable impurities. The casting machine is a two roller casting machine. The force exerted on the strip in the casting gap and measured over the width of the strip is at least 200 kN/m.

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CPC (source: EP)

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Cited by

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