

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

DE 10107027 A 20010215

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,  $\leq 0.50$  Cr,  $\leq 0.10$  Al,  $\leq 0.80$  Si,  $\leq 0.05$  Ti,  $\leq 0.05$  Nb,  $\leq 0.05$  Nb,  $\leq 0.01$  N,  $\leq 0.02$  S,  $\leq 0.02$  P,  $\leq 0.2$  Ni,  $\leq 0.1$  Mo,  $\leq 0.1$  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.

IPC 1-7

**B22D 11/06**; **B22D 11/00**; **B22D 11/124**

IPC 8 full level

**B22D 11/00** (2006.01); **B22D 11/06** (2006.01); **B22D 11/124** (2006.01)

CPC (source: EP)

**B22D 11/00** (2013.01); **B22D 11/0622** (2013.01); **B22D 11/124** (2013.01)

Cited by

CN112222365A; CN1330440C; DE102016117502A1; US10155256B2; US7216693B2; WO2018050637A1; WO2004007117A1; EP1521652B2

Designated contracting state (EPC)

AT BE DE ES FR GB

DOCDB simple family (publication)

**EP 1238727 A2 20020911**; **EP 1238727 A3 20030122**; **EP 1238727 B1 20041208**; AT E284284 T1 20041215; DE 10107027 A1 20020912; DE 50201702 D1 20050113; ES 2234937 T3 20050701

DOCDB simple family (application)

**EP 02002748 A 20020207**; AT 02002748 T 20020207; DE 10107027 A 20010215; DE 50201702 T 20020207; ES 02002748 T 20020207