

Title (en)

Strip made of stainless austenitic steel with bright surface and excellent mechanical properties

Title (de)

Band aus rostfreiem austenitischem Stahl mit blanker Oberfläche und ausgezeichneten mechanischen Eigenschaften

Title (fr)

Bande en acier inoxydable austénitique présentant un aspect de surface brillant et d'excellentes caractéristiques mécaniques

Publication

EP 1739200 A1 20070103 (FR)

Application

EP 05291384 A 20050628

Priority

EP 05291384 A 20050628

Abstract (en)

Austenitic stainless steel strip comprises (by %.wt): 0.025 = carbon = 0.15; 0.20 = silicon = 1.0; 0.50 = manganese = 2.0; 6.0 = nickel = 12.0; 16.0 = chromium = 20.0; molybdenum = 3.0; 0.030 = nitrogen = 0.16; copper = 0.50; phosphorus = 0.50; sulfur = 0.015; possibly 0.10 = vanadium (V) and 0.03 = niobium (Nb) = 0.50, with 0.10 = Nb + V = 0.50; remainder being iron and production impurities, of which the average grain size of the austenite is less than or equal to 4 μ m and the surface has a brilliance greater than 50. An independent claim is also included for the continuous fabrication of the austenitic stainless steel strip.

IPC 8 full level

C22C 38/44 (2006.01); **C21D 8/04** (2006.01); **C21D 9/48** (2006.01); **C22C 38/42** (2006.01); **C22C 38/46** (2006.01); **C22C 38/58** (2006.01); **C23G 1/08** (2006.01); **C25F 1/06** (2006.01)

CPC (source: EP KR US)

C21D 8/02 (2013.01 - KR); **C21D 8/0205** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/40** (2013.01 - KR); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C25F 1/06** (2013.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)
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Designated contracting state (EPC)

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AL BA HR LV MK YU

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