

Title (en)
Hot-rolled steel strip and method for manufacturing the same

Title (de)
Verfahren zur Herstellung eines warmgewalzten Stahlbandes

Title (fr)
Procédé de la fabrication d'une bande d'acier laminée à chaud

Publication
EP 1375694 A1 20040102 (EN)

Application
EP 03396059 A 20030618

Priority
FI 20021188 A 20020619

Abstract (en)
A hot-rolled steel strip rolled to a final thickness that is at least 2 mm but no more than 12 mm, with a microstructure comprising at least 95 % martensite and/or bainite. The steel contains, in percentages by weight: 0.08 % - 0.16 % C, 0.5 % - 1.5% Cr and/or 0.1 % - 0.5 % Mo, ≤ 0.015 % S and ≤ 0.03 % P, 0.01 % - 0.08 % Al, as well as 0.6 % - 1.1 % Mn, and 0.1 % - 0.3 % Si, the rest being Fe and unavoidable impurities. The tensile strength of the steel strip is 700 Mpa - 1500 Mpa at a tensile elongation that has an A5 value of at least 6 %, and the yield strength is 600 Mpa - 1400 Mpa.

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IPC 8 full level
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CPC (source: EP)
C21D 8/0226 (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/22** (2013.01); **C22C 38/28** (2013.01); **C21D 2211/002** (2013.01); **C21D 2211/008** (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 668 (C - 1289) 16 December 1994 (1994-12-16)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 028 (C - 471) 27 January 1988 (1988-01-27)

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