

Title (en)

DOUBLE PHASE STAINLESS STEEL STRIP FOR STEEL BELT

Title (de)

BAND AUS DOPPELPHASIGEM NICHTROSTENDEM STAHL FÜR STAHLRIEMEN

Title (fr)

BANDE D'ACIER INOXYDABLE DOUBLE PHASE POUR CEINTURE D'ACIER

Publication

**EP 1396552 B1 20050831 (EN)**

Application

**EP 02738626 A 20020606**

Priority

- JP 0205572 W 20020606
- JP 2001175109 A 20010611

Abstract (en)

[origin: EP1396552A1] A high-strength dual-phase stainless steel strip has a chemical composition consisting of 0.04-0.15 mass % C, 10.0-20.0 mass % Cr, 0.5-4.0 mass % Ni and the balance being Fe except inevitable impurities, and a metallurgical structure composed of 20-85 vol. % martensite grains and the balance ferrite grains with prior austenite grains controlled to 10  $\mu$  m or less in size. The stainless steel strip is conditioned to hardness of HV 300 or more. Transformation strains are uniformly distributed in a steel matrix during martensitic transformation, so that the steel strip is formed and straightened to a belt shape without L}ders band. Consequently, steel belts with fine external appearance are manufactured from the stainless steel strip.

IPC 1-7

**C22C 38/00**; **C22C 38/40**; **C22C 38/58**

IPC 8 full level

**C22C 38/42** (2006.01); **C22C 38/44** (2006.01)

CPC (source: EP KR US)

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Cited by

FR2872825A1; HRP20151160B1; US2017321311A1; EP3216888A4; EP2241645A4; US9267197B2; WO2006016043A3

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