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 A4 20041222 (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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Citation (search report)

- [X] EP 0682122 A1 19951115 - NISSHIN STEEL CO LTD [JP]
- [A] EP 0436032 A1 19910710 - NISSHIN STEEL CO LTD [JP]
- See references of WO 02101108A1

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