

Title (en)

Method and device for flexibly rolling a metal strip

Title (de)

Verfahren und Vorrichtung zum flexiblen Walzen eines Metallbandes

Title (fr)

Procédé et dispositif pour le laminage flexible d'une bande métallique

Publication

**EP 1181991 A3 20040310 (DE)**

Application

**EP 01118031 A 20010725**

Priority

DE 10041280 A 20000822

Abstract (en)

[origin: EP1181991A2] The metal band is rolled between two rollers, with size-variable rolling gap (4) to achieve band sections of smaller or larger thickness. To achieve a band section of smaller thickness, the contact period of each peripheral point of a first working roller (2) with the metal band (1) is shorter than the contact period of each peripheral point of a second working roller (3) with the band. This gives an asymmetrical thickness profile in the band sections with smaller thickness. The first working roller rotates at a higher speed than the second working roller.

IPC 1-7

**B21B 37/26**; **B21B 13/02**; **B21B 1/22**

IPC 8 full level

**B21B 1/22** (2006.01); **B21B 13/02** (2006.01); **B21B 37/26** (2006.01); **B21B 13/00** (2006.01)

CPC (source: EP US)

**B21B 37/26** (2013.01 - EP US); **B21B 13/02** (2013.01 - EP US); **B21B 2275/04** (2013.01 - EP US)

Citation (search report)

- [XA] DE 457669 C 19280321 - HEINRICH PANNE
- [XA] DE 2336459 A1 19740131 - NHK SPRING CO LTD
- [X] PATENT ABSTRACTS OF JAPAN vol. 011, no. 199 (M - 602) 26 June 1987 (1987-06-26)
- [XA] PATENT ABSTRACTS OF JAPAN vol. 008, no. 104 (M - 296) 16 May 1984 (1984-05-16)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 666 (M - 1724) 15 December 1994 (1994-12-15)

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DOCDB simple family (application)

**EP 01118031 A 20010725**; DE 10041280 A 20000822; JP 2001251142 A 20010822; US 93445401 A 20010822