

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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CN102397875A; DE102015112889A1; CN111360094A; WO2007062734A1; WO2017055083A1; US8522586B2; US10710132B2; EP3332047B1

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