

Title (en)

Device for improving the flatness of rolled strip, in particular of steel strip

Title (de)

Vorrichtung zur Verbesserung der Planheit von gewalztem Band, insbesondere von Stahlband

Title (fr)

Dispositif pour améliorer la planéité de bandes laminées, en particulier de bandes d'acier

Publication

EP 1230993 A3 20050126 (DE)

Application

EP 02000832 A 20020115

Priority

- DE 10105833 A 20010207
- DE 10132105 A 20010703

Abstract (en)

[origin: EP1230993A2] Device for improving the planarity of a steel strip rolled in a roll stand comprises planarity measuring rollers (PMR1, PMR2) and a tension leveling machine (STR) connected to the roll stand (WW). Preferred Features: A first planarity measuring roller is arranged between the roll stand and the tension leveling machine, and a second planarity measuring roller is arranged after the tension leveling machine.

IPC 1-7

B21B 37/28; B21B 39/08; B21D 1/05

IPC 8 full level

B21B 37/28 (2006.01); **B21B 39/08** (2006.01); **B21D 1/05** (2006.01); **B21B 15/00** (2006.01)

CPC (source: EP)

B21B 37/28 (2013.01); **B21B 39/08** (2013.01); **B21D 1/05** (2013.01); **B21B 2015/0071** (2013.01)

Citation (search report)

- [A] US 3429164 A 19690225 - OGONOWSKI KASIMIR, et al
- [T] WO 0216057 A1 20020228 - SMS DEMAG AG [DE], et al
- [A] US 5341664 A 19940830 - NOE ROLF [DE], et al
- [A] US 3839888 A 19741008 - GREENBERGER J
- [XA] KAPELLNER A: "NEW DEVELOPMENTS IN SKINPASSING FOR HOT DIP GALVANIZING LINES", IRON AND STEEL ENGINEER, ASSOCIATION OF IRON AND STEEL ENGINEERS. PITTSBURGH, US, vol. 74, no. 3, March 1997 (1997-03-01), pages 39 - 42, XP000689856, ISSN: 0021-1559
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01 31 January 2000 (2000-01-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0130, no. 28 (M - 788) 23 January 1989 (1989-01-23)

Cited by

CN110314939A; DE102017202909A1; WO2018082943A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1230993 A2 20020814; EP 1230993 A3 20050126; EP 1230993 B1 20071219; AT E381394 T1 20080115; DE 50211379 D1 20080131

DOCDB simple family (application)

EP 02000832 A 20020115; AT 02000832 T 20020115; DE 50211379 T 20020115