Title (en)

Method for operating a rolling mill for warm and cold rolling flat products

Title (de)

Verfahren zum Betreiben eines Walzwerks für das Warm- und Kaltwalzen von Flachprodukten

Title (fr)

Procédé pour faire fonctionner un laminoir pour le laminage à chaud et à froid de produits plats

Publication

EP 0875303 A3 20000112 (DE)

Application

EP 98107702 A 19980428

Priority

DE 19718529 A 19970502

Abstract (en)

[origin: EP0875303A2] The method concerns operation of a mill for hot and cold rolling of flat products in single or multiple arrangements of roll stands with two or more rolls. Control of the roll gap takes place with correction of the force difference between the roll drive and operator ends, and compensation of the settings correcting the bending and balancing forces. The method is characterised by the fact that the control system has an additional corrective quantity formed through measurement of the horizontal forces on all individual rolls.

IPC 1-7

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IPC 8 full level

B21B 31/16 (2006.01); **B21B 37/00** (2006.01); **B21B 37/28** (2006.01); **B21B 37/38** (2006.01); **B21B 37/42** (2006.01); **B21B 37/58** (2006.01); B21B 38/10 (2006.01)

CPC (source: EP US)

B21B 37/28 (2013.01 - EP US); **B21B 37/42** (2013.01 - EP US); **B21B 37/58** (2013.01 - EP US); B21B 38/105 (2013.01 - EP US); B21B 2038/002 (2013.01 - EP US)

Citation (search report)

- [XAY] EP 0763391 A1 19970319 - SCHLOEMANN SIEMAG AG [DE]
- [DYA] DE 3000187 A1 19801204 - HITACHI LTD
- [Y] PATENT ABSTRACTS OF JAPAN vol. 017, no. 520 (M - 1482) 20 September 1993 (1993-09-20)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 006 (M - 551) 8 January 1987 (1987-01-08)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 116 (M - 299) 30 May 1984 (1984-05-30)

Cited by

EP1757379A1; AU777487B2; EP1757377A1; EP1757378A1; EP0985461A4; WO2007057098A1; US6619087B2

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DOCDB simple family (application)

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