

Title (en)

METHOD OF CONTROLLING SIDE GUIDES OF A METAL STRIP

Title (de)

VERFAHREN ZUR REGELUNG VON SEITENFÜHRUNGEN EINES METALLBANDES

Title (fr)

METHODE DE RÉGULATION DES GUIDES LATÉRAUX D'UNE BANDE MÉTALLIQUE

Publication

EP 2519365 A2 20121107 (DE)

Application

EP 10799048 A 20101223

Priority

- DE 102009060823 A 20091229
- EP 2010070698 W 20101223

Abstract (en)

[origin: WO2011080226A2] The invention relates to a method for controlling a side guide of a metal strip (1), in particular in the inlet or outlet of roll stands or driving apparatuses, wherein the side guide comprises a guide (2, 4) disposed laterally to the metal strip (1) on both sides of the metal strip (1), and the guides (2, 4) can be displaced independently of each other. One of the guides (2) is thereby driven by means of position control, and a second of the guides (4) is driven by means of force control, wherein forces of the metal strip (1) acting on the first guide (2) and the second guide (4) are measured. The target force S2 for the second, force-controlled guide (4) is thereby prescribed as a function of the measured force K1 on the first, position-controlled guide (2), wherein as the force on the first, position-controlled guide (2) increases, the target force S2 for the second, force-controlled guide (4) is reduced. In particular, damage to the guides (2, 4) and to the metal strip (1) can be prevented or at least reduced by means of said type of controlling.

IPC 8 full level

B21B 37/68 (2006.01); **B21B 39/14** (2006.01); **B21C 47/34** (2006.01); **B21D 43/02** (2006.01)

CPC (source: EP KR US)

B21B 37/68 (2013.01 - EP KR US); **B21B 39/14** (2013.01 - KR); **B21C 47/34** (2013.01 - EP KR US); **B21C 47/3416** (2013.01 - EP US); **B21D 43/02** (2013.01 - KR); **B21D 43/023** (2013.01 - EP US); **B21B 39/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2011080226A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011080226 A2 20110707; **WO 2011080226 A3 20120105**; CN 102665949 A 20120912; CN 102665949 B 20150401; DE 102009060823 A1 20110630; EP 2519365 A2 20121107; EP 2519365 B1 20130925; JP 2013515616 A 20130509; JP 5450835 B2 20140326; KR 101421990 B1 20140722; KR 20120096581 A 20120830; RU 2501616 C1 20131220; US 2012267415 A1 20121025; US 8616034 B2 20131231

DOCDB simple family (application)

EP 2010070698 W 20101223; CN 201080060065 A 20101223; DE 102009060823 A 20091229; EP 10799048 A 20101223; JP 2012546426 A 20101223; KR 20127018968 A 20101223; RU 2012132452 A 20101223; US 201013519979 A 20101223