

Title (en)

Method for regulating the web tension in a web processing machine

Title (de)

Verfahren zum Regeln der Bahnspannung in einer Bahnbearbeitungsmaschine

Title (fr)

Procédé de réglage de la tension de bande dans une machine de traitement de bande

Publication

EP 2524806 A1 20121121 (DE)

Application

EP 12152807 A 20120127

Priority

DE 102011101842 A 20110517

Abstract (en)

The method involves reducing impact of web tension control on a web extension before an upcoming modification of a web tension influencing parameter i.e. elastic modulus, only if the upcoming modification of the web tension influencing parameter exceeds a predetermined threshold. The impact of the web tension control is reduced by changing controller parameters (210, 211), a reference value (w) and/or a bandwidth of a closed web tension control circuit (200), and by limiting a controller output (ur) and/or a web extension offset (e). An independent claim is also included for a web processing machine.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Regeln der Bahnspannung einer Warenbahn in einer Bahnbearbeitungsmaschine, wobei vor einer anstehenden Veränderung wenigstens eines die Bahnspannung beeinflussenden Parameters die Auswirkungen der Bahnspannungsregelung auf die Bahndehnung reduziert werden.

IPC 8 full level

B41F 13/02 (2006.01); **B41F 33/02** (2006.01); **B65H 23/188** (2006.01); **G05B 19/416** (2006.01)

CPC (source: EP US)

B41F 13/02 (2013.01 - EP US); **B41F 33/02** (2013.01 - EP US); **B65H 23/1888** (2013.01 - EP US); **B41P 2213/90** (2013.01 - EP US); **B65H 2401/23** (2013.01 - EP US)

Citation (applicant)

- EP 1790601 A2 20070530 - BOSCH REXROTH AG [DE]
- DE 102008035639 A1 20100204 - BOSCH GMBH ROBERT [DE]
- DE 102009019624 A1 20101104 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [XII] WO 0207975 A1 20020131 - KOENIG & BAUER AG [DE], et al
- [AD] DE 102009019624 A1 20101104 - BOSCH GMBH ROBERT [DE]

Cited by

CN111065592A; EP3686138A4; US11472173B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2524806 A1 20121121; **EP 2524806 B1 20151118**; **EP 2524806 B2 20181003**; BR 102012011695 A2 20131105; DE 102011101842 A1 20121122; US 2012294662 A1 20121122

DOCDB simple family (application)

EP 12152807 A 20120127; BR 102012011695 A 20120516; DE 102011101842 A 20110517; US 201213470993 A 20120514