

Title (en)

Method for determining the web tension

Title (de)

Verfahren zum Bestimmen einer Bahnspannung

Title (fr)

Procédé pour déterminer la tension d'une bande de matière

Publication

**EP 1795470 A1 20070613 (DE)**

Application

**EP 06020362 A 20060928**

Priority

DE 102005058810 A 20051209

Abstract (en)

The method involves determining a web tension (S1) of a web tension section (111), which is provided in a product web (101), based on the modulus of elasticity of product web materials, the speed of a transport axle and the drive torque of the axle. The drive torque of the axle depends on the diameter of the axle. Web tensions (S2, S3, S4) of web tension sections (112, 113, 114) are determined based on the determined web tension (S1). The change in the expansion characteristics of the product web is evaluated. Independent claims are also included for the following: (1) a processing unit for determining the web tension of the web tension section (2) a computer program with a program code for determining the web tension of a web tension section (3) a computer program product with a program code structure for determining the web tension of a web tension unit.

IPC 8 full level

**B65H 23/188** (2006.01); **B41F 13/02** (2006.01)

CPC (source: EP US)

**B41F 13/02** (2013.01 - EP US); **B65H 23/044** (2013.01 - EP US); **B65H 23/1888** (2013.01 - EP US)

Citation (search report)

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- [A] EP 1505025 A2 20050209 - ROLAND MAN DRUCKMASCH [DE]
- [A] VALENZUELA M A ET AL: "SENSORLESS TENSION CONTROL IN PAPER MACHINES", IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 39, no. 2, March 2003 (2003-03-01), pages 294 - 304, XP001158265, ISSN: 0093-9994

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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