

Title (en)

Method of and device for compensating the tension forces over the width of a running web

Title (de)

Verfahren und Vorrichtung zum Ausgleich von Spannkraften über die Breite einer laufenden Bahn

Title (fr)

Procédé et dispositif pour compenser les forces de tension sur la largeur d'une bande en mouvement

Publication

**EP 0888993 B1 19991222 (DE)**

Application

**EP 98109833 A 19960113**

Priority

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- EP 96100446 A 19960113

Abstract (en)

[origin: EP0722899A2] The web (3) is drawn over rollers (4, 5, 6) and its tension across its width is equalised. The web (3) is preferably a paper of film track. A tension equalising roller (5) reverses the web (3). The equalising roller (5) is pivoted about a pivot axis (8) which is essentially perpendicular to the roller (5). The equalising roller (5) is pivoted by detecting and regulating a rotary moment exerted on the roller (5) by the web (3). The appts. for carrying out the method has the equalising roller (5) mounted on a shaft (7) to rotate freely about its longitudinal axis. The shaft (7) is supported in a pivot bearing (10) held in a frame (11). The shaft (67) is held either side of the roller (5) and guided in buffers. The shaft (7) is movably held by a toothed gear and supported by roller bearings.

Abstract (de)

Ein Verfahren und eine Vorrichtung zum Ausgleich von Spannkraften über die Breite einer laufenden Bahn (3) verwendet eine Spannungs-Ausgleichswalze (5), welche um eine Schwenkachse (8) schwenkbar gehalten ist. Beim Auftreten einer Spannkraftdifferenz über die Breite der Bahn (3) wird die Spannungs-Ausgleichswalze (5) mittels einer Drehmomentenregelung soweit aktiv verschwenkt, daß die Spannkraften in beiden Bahnhälften ausgeglichen werden. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Cited by

CN106395452A; CN108677002A; US8936131B2; WO9942392A1; WO2023217676A1; IT202200009695A1

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