

Title (en)

Process and apparatus for controlling or regulating the basis weight of a paper- or board web

Title (de)

Vorrichtung und Verfahren zur Steuerung oder Regelung des Flächengewichts einer Papier- oder Kartonbahn

Title (fr)

Procédé et appareil pour la commande ou la régulation du poids de base d'une bande de papier ou carton

Publication

EP 1054102 A3 20010502 (DE)

Application

EP 00107662 A 20000410

Priority

DE 19922817 A 19990519

Abstract (en)

[origin: EP1054102A2] To control the weight of a paper or cardboard web during its production, at least one adjustable web weight control system (20,21) is set by a control circuit together with at least one web weight sensor (7). An additional control circuit has at least sensor (10) to register the concentration of the extracted water from the wet web. At least one web weight adjustment system has a number of adjustable units distributed across the machine width, and at least one is the setting unit for the additional control circuit. At least one sensor to register the concentration of the extracted water in front of or in the extracted water container, or at the return flow channel of the water to the stock inlet. The second control circuit is connected to the setting units of the first control circuit. At least one web weight sensor is at the machine drying section, and preferably at the end of the drying station. Or the sensor is between the press and drying sections, and preferably directly after the press station. In a further control circuit, after detection of a change in the retention, a correction is made to the fiber suspension concentration laid on the fourdrinier or between two fourdriniers. The retention detection is through measurement of the extracted water from the pulp, and its concentration, in front of the extracted water container or in the return flow channel to the stock inlet. The additional control circuit is subordinate to the first control circuit, and uses the setting units of the first control circuit. On detection of a decline in the retention, the concentration is increased in the pulp suspension fed to the stock inlet and added retention agents, and vice versa. The stock inlet is divided into sections across the machine width, for its control according to the measurements of the extracted water.

IPC 1-7

D21G 9/00; D21F 1/08

IPC 8 full level

D21F 1/08 (2006.01); **D21F 1/66** (2006.01); **D21G 9/00** (2006.01)

CPC (source: EP US)

D21F 1/08 (2013.01 - EP US); **D21F 1/66** (2013.01 - EP US); **D21G 9/0027** (2013.01 - EP US); **Y10S 162/11** (2013.01 - EP US)

Citation (search report)

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- [DA] DE 19736048 A1 19990225 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [A] HUOVILA, J., KAUNONEN, A.: "Produktivität durch steuerbare Gleichmässigkeit", WOCHENBLATT FÜR PAPIERFABRIKATION, vol. 126, no. 21, November 1998 (1998-11-01), pages 1103 - 1109, XP000989607

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