Title (en)

Calender and process for treating a web of material

Title (de)

Kalander und Verfahren zum Behandeln einer Materialbahn

Title (fr)

Calandre et procédé pour le traitement d'une bande de matériau

Publication

EP 1394322 B1 20070314 (DE)

Application EP 03017245 A 20030730

Priority DE 10239154 A 20020827

Abstract (en)

[origin: EP1394322A1] Each sensor (28, 28') has a measurement face on which an air cushion can be produced. The sensor (28) casing (44) and carrier (45) enclose a pressurized space (47), with adjustable connection. On the sensor carrier, nozzles (48) feed air into the space between carrier and the surface being monitored. They are connected to a blowing chamber (49). The sensor is flexibly suspended. The air cushion is formed on a curved surface, causing self-adjustment. The sensor works without contact. It is optical, with a light source (51) and receiver (58) for the reflected light (55). The sensor can be moved parallel to the pressing direction (33). There are two of them, on each side of the roller stack. The web path departing from a nip (10-16) passes over a guide roller circumference, against which the sensor is positioned. The sensor can be adjusted perpendicular to the pressing direction. It is located against the circumferential surface of a roller (4). The roller may not be covered by the web, in the sensor location. The sensor can be moved transversely with respect to web travel. It is mounted on a carriage to move parallel to the pressing direction. It has a linear drive perpendicular to this direction. The sensor for a roller is connected to evaluation instrumentation with memory for measurements at various locations, taken at various instants. A vibration sensor for a roller is connected to sensing equipment clocked a frequency exceeding the barring (producing stripes across web) frequency. Measurement locations are provided on the web and on a roller surface. Measurements from different instants are compared. Movement and/or force parameters are quantified for at least one roller. An Independent claim is included for the corresponding method.

IPC 8 full level

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