

Title (en)
Calender

Title (de)
Kalander

Title (fr)
Calandre

Publication
EP 1876292 A1 20080109 (DE)

Application
EP 07107614 A 20070507

Priority
DE 102006031023 A 20060705

Abstract (en)

The calender for smoothing paper, cardboard/other fiber material web, comprises a pillar, two end rollers constructed as controlled deflection rolls having roller cover (10) controlled via a deflection control device on a support that is held fixed against rotation, and two intermediate rollers with roller stack movably arranged in stack plane. The rollers (2, 4, 5) are arranged on above the other. One of the movable intermediate rollers (5) is assigned to a pressing element (7) operating on its shaft ends/pins (15). The pressing element presses the intermediate roller (5) to an end roller. The calender for smoothing paper, cardboard or other fiber material web, comprises a pillar, two end rollers constructed as controlled deflection rolls having roller cover (10) controlled via a deflection control device on a support that is held fixed against rotation, and two intermediate rollers with roller stack movably arranged in stack plane. The rollers (2, 4, 5) are arranged on above the other. One of the movable intermediate rollers (5) is assigned to a pressing element (7) operating on its shaft ends or pins (15). The pressing element presses the intermediate roller (5) to an end roller. Smooth slits lying between the intermediate roller and a determined end roller are closed. The intermediate roller (4) is arranged on the smooth slit. The determined end roller is arranged to the adjacent intermediate roller (4) and is formed by the lower end roller (2). All intermediate rollers possess pressing element. An independent claim is included for a procedure for driving a calender.

Abstract (de)

Die Erfindung betrifft einen Kalander zur Glättung einer Papier-, Karton- oder einer anderen Faserstoffbahn (1) mit einem Ständer (11) und wenigstens einem, zwei Endwalzen (2,3) und zumindest zwei Zwischenwalzen (4,5,6) aufweisenden Walzenstapel, wobei die Walzen (2,3,4,5,6) übereinander angeordnet sind, wenigstens eine Zwischenwalze (5) in der Stapelebene (13) verschiebbar gelagert ist und die Endwalzen (2,3) als Durchbiegungseinstellwalzen mit einem über eine Durchbiegungseinstelleinrichtung (9) auf einem drehfest gehaltenen Träger (14) abgestützten Walzenmantel (10) ausgebildet sind. Dabei soll das Anwendungsfeld des Kalanders dadurch erweitert werden, dass wenigstens einer der verschiebbaren Zwischenwalzen (5,6) auf deren Achsenden oder Zapfen (15) einwirkende Anpresselemente (7) zugeordnet sind, die die Zwischenwalze (5) zu einer Endwalze (2,3) hin drücken, wobei nur die, zwischen den, von Anpresselementen (7) beaufschlagten Zwischenwalzen (7) und einer bestimmten Endwalze (2,3) liegenden Glättspalte geschlossen sind.

IPC 8 full level
D21G 1/00 (2006.01)

CPC (source: EP)
D21G 1/00 (2013.01); **D21G 1/002** (2013.01)

Citation (applicant)

- EP 0661405 A1 19950705 - VALMET PAPER MACHINERY INC [FI]
- WO 2006035113 A1 20060406 - METSO PAPER INC [FI], et al
- DE 20200584 U1 20020328 - VOITH PAPER PATENT GMBH [DE]
- KUBIK K.: "Kunststoffe", vol. 85, 1 April 1995, CARL HANSER VERLAG, article "Schwimmt gleichmäßig Druck verteilen - Uniform Pressuere Distribution by Floating Roller", pages: 464 - 465

Citation (search report)

- [XY] EP 0661405 A1 19950705 - VALMET PAPER MACHINERY INC [FI]
- [X] WO 2006035113 A1 20060406 - METSO PAPER INC [FI], et al
- [X] DE 20200584 U1 20020328 - VOITH PAPER PATENT GMBH [DE]
- [A] EP 0425138 A2 19910502 - VALMET KARHULA INC [FI]
- [Y] KUBIK K: "SCHWIMMEND GLEICHMASSIG DRUCK VERTEILEN UNIFORM PRESSURE DISTRIBUTION BY FLOATING ROLLER", KUNSTSTOFFE, CARL HANSER VERLAG, MUNCHEN, DE, vol. 85, no. 4, 1 April 1995 (1995-04-01), pages 464 - 465, XP000497035, ISSN: 0023-5563

Citation (third parties)

- Third party :
- WO 2006051169 A2 20060518 - METSO PAPER INC [FI], et al
 - WO 03104553 A1 20031218 - METSO PAPER INC [FI], et al
 - EP 1026316 A2 20000809 - VOITH SULZER PAPIERTECH PATENT [DE]
 - WO 2004061222 A1 20040722 - METSO PAPER INC [FI], et al

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