

Title (en)
Method of operating a papermaking machine and papermaking machine

Title (de)
Verfahren zum Betreiben einer Papiermaschine sowie Papiermaschine

Title (fr)
Procédé d'exploitation d'une machine à papier et machine à papier

Publication
EP 1348807 A1 20031001 (DE)

Application
EP 03100340 A 20030214

Priority
DE 10213851 A 20020327

Abstract (en)
A paper-processing machine has two cylinders (12, 14) forming a nip gap through which a paper web feeds continually. The nip gap (16) is esp. monitored by a sound emitter and detector (18) in air close to an elastic cylinder (12). The sound detector (18) is located in the immediate vicinity of the gap and operates on a continuous, semi-continuous or intermittent basis. The detector is coupled to a measurement and control unit (22) which gives a warning when the sound passes a pre-determined threshold linked to the barring effect associated with the onset of faulty paper quality. The measurement and control unit is further linked to a cooling water supply to the cylinder.

Abstract (de)
Bei einem Verfahren zum Betreiben einer Papiermaschine werden Schwingungen, die an wenigstens einer Walze (12,28) und/oder an wenigstens einem zwischen einer Walze (12) und einer Gegenfläche, insbesondere Gegenwalze (14) gebildeten Nip (16) auftreten, durch eine im Bereich der Walze (12,28) bzw. im Bereich des Nips (16) durchgeführte Schallmessung überwacht. Es wird auch eine entsprechende Papiermaschine beschrieben. <IMAGE>

IPC 1-7
D21G 1/00; **D21G 9/00**

IPC 8 full level
D21G 1/00 (2006.01); **D21G 9/00** (2006.01)

CPC (source: EP US)
D21G 1/008 (2013.01 - EP US); **D21G 9/0045** (2013.01 - EP US)

Citation (search report)
• [XY] WO 0150030 A1 20010712 - VALMET CORP [FI], et al
• [YD] WO 9920836 A1 19990429 - VALMET CORP [FI], et al
• [YD] EP 0779394 A1 19970618 - VALMET CORP [FI]
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• [Y] CHEN Y N ET AL: "Calender barring on paper machines-practical conclusions and recommendations", TAPPI, TECHNICAL ASSOCIATION OF THE PULP & PAPER INDUSTRY. ATLANTA, US, vol. 58, no. 8, August 1975 (1975-08-01), pages 147 - 151, XP002216957

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Designated contracting state (EPC)
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EP 1348807 A1 20031001; **EP 1348807 B1 20060405**; AT E322574 T1 20060415; DE 10213851 A1 20031009; DE 50302856 D1 20060518; US 2003188583 A1 20031009; US 6878237 B2 20050412

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