

Title (en)

Method and system for the stabilization of paper applicable in paper drying machines and processes

Title (de)

Verfahren und System zur Stabilisierung von Papier in Papiertrocknungsmaschinen und -verfahren

Title (fr)

Procédé et système pour la stabilisation de papier applicable dans des machines et procédés à sécher le papier

Publication

EP 2803765 A1 20141119 (EN)

Application

EP 13380019 A 20130517

Priority

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Abstract (en)

Method and system for the stabilization of paper applicable in a dryer section of a sheet of paper (1) that is conveyed along with a fabric (5), where there is at least one critical area (7) in which they (1, 5) separate from each other. The method comprises at least the steps of generating a high circulation vortex (12) in the critical area (7) and confining the high circulation vortex (12) in the critical area (7). This way, a high vacuum is in turn confined in the critical area (7) that prevents the separation of the sheet of paper (1) and the fabric (5), without having to use confinement elements that are aggressive to the fabric (5), and with reasonable energy consumption.

IPC 8 full level

D21F 5/04 (2006.01)

CPC (source: EP)

D21F 5/042 (2013.01); **D21F 5/046** (2013.01)

Citation (applicant)

- US 8117765 B2 20120221 - AALTONEN RAMI [FI], et al
- US 6848195 B2 20050201 - LEIMU JUHA [FI]
- US 6247247 B1 20010619 - YOEMAA SEPPO [FI], et al

Citation (search report)

- [X] WO 0050693 A1 20000831 - VALMET CORP [FI], et al
- [XA] THIELE E W ET AL: "A NEW PAPER MACHINE DRYING CONCEPT: A MULTIFUNCTIONAL, RADIAL-JET REATTACHMENT NOZZLE BLOW BOX", TAPPI JOURNAL, TECHNICAL ASSOCIATION OF THE PULP & PAPER INDUSTRY. ATLANTA, US, vol. 76, no. 7, 1 July 1993 (1993-07-01), pages 203 - 207, XP000420395, ISSN: 0734-1415

Designated contracting state (EPC)

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DOCDB simple family (publication)

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