

Title (en)

Suction apparatus and press part of a paper machine as well as process to dry a section of a fabric in a paper machine

Title (de)

Saugvorrichtung und Pressenpartie einer Papiermaschine sowie Verfahren zum Besaugen eines Bahnabschnitts einer Papiermaschine

Title (fr)

Boîte aspirante et partie de pressage d'une machine à papier ainsi que procédé pour déshumidifier une section de la toile d'une machine à papier

Publication

**EP 0860546 A3 19990609 (DE)**

Application

**EP 97116756 A 19970926**

Priority

DE 19648850 A 19961126

Abstract (en)

[origin: US6027613A] Suction device for use in a machine for producing a sheet and a method to vacuum a web section of a paper machine. The suction device includes a contact surface to place on the web section and a suction box. The suction box is designed to have a vacuum pressure applied to drain the web section. The suction device further includes a control device and a release mechanism or an adjustment mechanism for releasing the suction box from the web section while the vacuum pressure is applied or thereafter so that the web section is guided along the contact surface with less friction and without the web section detaching from the contact device. A method to suction a web section in a paper machine including arranging a contact surface a suction device on the web section and applying a vacuum pressure to the suction device to vacuum the web section. The method further includes operating the paper machine to guide the web section along the contact surface and pressing the web section onto the contact surface by the vacuum pressure. Finally, the method includes releasing the suction device from the web section at the time of or after applying the vacuum pressure thereby guiding the web section along the contact surface with less friction and without the web section detaching from the contact surface.

IPC 1-7

**D21F 7/12**; **D21F 1/52**

IPC 8 full level

**D21F 1/32** (2006.01); **D21F 1/52** (2006.01); **D21F 7/12** (2006.01)

CPC (source: EP US)

**D21F 1/52** (2013.01 - EP US); **D21F 7/12** (2013.01 - EP US)

Citation (search report)

- [A] US 3420736 A 19690107 - KWASNIEWSKI EDWARD D, et al
- [A] US 2544572 A 19510306 - WILLIAM VICKERY FREDERICK

Cited by

DE10241181A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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**US 6027613 A 20000222**; AT E254210 T1 20031115; DE 19648850 A1 19980528; DE 59710993 D1 20031218; EP 0860546 A2 19980826; EP 0860546 A3 19990609; EP 0860546 B1 20031112

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