

Title (en)

PROCESS AND DEVICE FOR STABILISING A TRAVELLING WEB

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STABILISIERUNG EINER LAUFENDEN BAHN

Title (fr)

PROCEDE ET DISPOSITIF POUR STABILISER UNE BANDE EN DEFILEMENT

Publication

EP 0723523 B1 19971217 (DE)

Application

EP 94928752 A 19941007

Priority

- DE 9401170 W 19941007
- DE 4334468 A 19931011

Abstract (en)

[origin: WO9510474A1] The invention relates to a process and a suitable device for implementing it to stabilise a travelling web (B) in a free-running stretch between two supports, in which air is blown on the web (B) on one side from a nozzle arrangement (16) which is surrounded by a substantially flat wall surface (9). The wall surface (9) is parallel to the web (B) and comprises an air duct (14) extending transversely to the direction of travel of the web (B) and having a V-shaped cross section, in which the nozzle arrangement is fitted. The nozzle arrangement consists of mutually staggered hole-like outlets (16, 16') machined in the opposite walls of the air duct. The underpressure region generated by the crossing air flows draws the web towards the flat wall surface (9) on going below a critical distance so that it assumes a position of equilibrium at a certain distance which is determined by the diameter of the outlets and hence the thickness of the air cushion generated by the crossing air flows.

IPC 1-7

B65H 23/24; **F26B 13/10**; **D21F 5/04**

IPC 8 full level

B65H 23/24 (2006.01); **D21F 5/04** (2006.01); **F26B 13/10** (2006.01); **F26B 13/20** (2006.01)

CPC (source: EP)

B65H 23/24 (2013.01); **D21F 5/042** (2013.01); **F26B 13/104** (2013.01)

Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

WO 9510474 A1 19950420; AT E161240 T1 19980115; DE 4334468 A1 19950413; DE 4334468 C2 19970710; DE 59404840 D1 19980129; EP 0723523 A1 19960731; EP 0723523 B1 19971217; FI 961573 A0 19960410; FI 961573 A 19960410

DOCDB simple family (application)

DE 9401170 W 19941007; AT 94928752 T 19941007; DE 4334468 A 19931011; DE 59404840 T 19941007; EP 94928752 A 19941007; FI 961573 A 19960410