

Title (en)
Application device

Title (de)
Auftragsvorrichtung

Title (fr)
Dispositif d'application

Publication
EP 1367174 B1 20050504 (DE)

Application
EP 03017779 A 20010313

Priority
• DE 10012257 A 20000314
• EP 01927724 A 20010313

Abstract (en)
[origin: DE10012257A1] The air boundary layer reduction unit is a suction device (26) with resilient sections (28, 30, 32) sliding on the paper ground. Preferred features: The resilient section is a dragging scraper (28), preferably at the outlet side of the suction unit. It is plastic film, sheet metal or a composite. It is curved in the direction of running (L). A brush (30) is included at the inlet side. It has bristles of differing hardness, increasing in the running direction. Spacing between non-flexible sections and the ground, is about 10 mm. Spacing between the trailing edge of the suction unit and the point of incidence of coating medium is 1-100 mm, preferably 10-50 mm. A variant based on the foregoing principles employs an air blower in place of the suction device. In further implementations, a sealing roller is employed and/or a conditioner (a strip) removes the uppermost layers of the air boundary layer.
[origin: DE10012257A1] The air boundary layer reduction unit is a suction device (26) with resilient sections (28, 30, 32) sliding on the paper ground. Preferred features: The resilient section is a dragging scraper (28), preferably at the outlet side of the suction unit. It is plastic film, sheet metal or a composite. It is curved in the direction of running (L). A brush (30) is included at the inlet side. It has bristles of differing hardness, increasing in the running direction. Spacing between non-flexible sections and the ground, is about 10 mm. Spacing between the trailing edge of the suction unit and the point of incidence of coating medium is 1-100 mm, preferably 10-50 mm. A variant based on the foregoing principles employs an air blower in place of the suction device. In further implementations, a sealing roller is employed and/or a conditioner (a strip) removes the uppermost layers of the air boundary layer.

IPC 1-7
D21H 23/22; **D21H 23/48**; **B05C 5/00**

IPC 8 full level
B05C 5/00 (2006.01); **B05C 11/02** (2006.01); **D21H 23/22** (2006.01); **D21H 23/48** (2006.01)

CPC (source: EP US)
B05C 5/005 (2013.01 - EP US); **D21H 23/48** (2013.01 - EP US); **D21H 23/22** (2013.01 - EP US); **Y10S 118/04** (2013.01 - EP US)

Cited by
DE102017111173B4; EP1676957A3; DE102017111173A1; WO2008015043A1

Designated contracting state (EPC)
AT DE FI FR IT SE

DOCDB simple family (publication)
DE 10012257 A1 20010920; AT E259449 T1 20040215; AT E294893 T1 20050515; CA 2403002 A1 20010920; DE 50101474 D1 20040318; DE 50106150 D1 20050609; EP 1272709 A1 20030108; EP 1272709 B1 20040211; EP 1367174 A1 20031203; EP 1367174 B1 20050504; JP 2003527236 A 20030916; US 2003145785 A1 20030807; US 2004237885 A1 20041202; US 7192485 B2 20070320; WO 0168981 A1 20010920

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