

Title (en)
Curtain coater

Title (de)
Vorhangsbeschichter

Title (fr)
Enduiseuse à rideau

Publication
EP 1239078 A1 20020911 (DE)

Application
EP 02003073 A 20020213

Priority
DE 10110633 A 20010306

Abstract (en)
The coating process for a dry web of paper/cardboard to apply a coating of a liquid or paste medium, and especially a watery pigment suspension, uses a curtain applicator (2). The coating curtain (3) drops on to the outer surface (1b) of the moving web, to be drawn into the web by suction and be anchored within the web structure. The underpressure unit is located at the under surface (1a) of the web, at least at the point (P) where the coating curtain strikes the web surface. The web curtain coating applicator has a suction box to generate the underpressure, with a seal at the incoming and/or outgoing side e.g. as a scraper or brush, set against the web. The underpressure unit has a suction zone (5a) at the web support roller (4).

Abstract (de)
Bei einer Vorrichtung zum ein- oder beidseitigen Auftragen von flüssigem oder pastösem Auftragsmedium, insbesondere wässrige Pigmentsuspension, auf eine laufende Materialbahn, insbesondere auf eine Papier- oder Kartonbahn bei deren Herstellung und /oder Veredelung umfassend ist erfindungsgemäß vorgesehen, dass die Unterdruck-Erzeugungseinrichtung der vom Auftragsmedium-Vorhang abgewandten Seite der Materialbahn zumindest dem Bereich der Position P zugeordnet ist. <IMAGE>

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

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

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

Citation (search report)

- [XY] EP 0678614 A2 19951025 - KIMBERLY CLARK CO [US]
- [XY] US 5509161 A 19960423 - NEVEU JEAN-LOUIS [FR], et al
- [XY] US 4427722 A 19840124 - KELLER MARTIN B [US]
- [Y] US 6187142 B1 20010213 - HEINZMANN HELMUT [DE], et al
- [A] DE 19903559 A1 19991021 - MITSUBISHI PAPER MILLS LTD [JP]
- [A] US 5763013 A 19980609 - DEVINE WILLIAM D [US], et al
- [A] EP 0740197 A1 19961030 - ILFORD AG [CH]
- [A] US 5105758 A 19920421 - KOZAK STEPHEN J [US]

Cited by
DE102011079568A1; EP3640399A1; US11299857B2

Designated contracting state (EPC)
AT DE FI IT SE

DOCDB simple family (publication)
EP 1239078 A1 20020911; DE 10110633 A1 20020919; JP 2002336757 A 20021126; US 2002124796 A1 20020912; US 6599364 B2 20030729

DOCDB simple family (application)
EP 02003073 A 20020213; DE 10110633 A 20010306; JP 2002057376 A 20020304; US 9066702 A 20020305