

Title (en)  
Application device

Title (de)  
Auftragsvorrichtung

Title (fr)  
Dispositif d'application

Publication  
**EP 2072153 A1 20090624 (DE)**

Application  
**EP 08105964 A 20081210**

Priority  
DE 102007055891 A 20071220

Abstract (en)

The device for direct or indirect coating of fluid or pasty medium such as coating color, on a moving paper-, cardboard or other fibrous web (5), comprises a coating aggregate (6, 7) adapted on the width of the fibrous web to be coated, a coating unit (8) adapted on the width of the coating aggregate. The coating aggregate delivers the coating medium on the moving web during direct coating and on a transmission element (2, 3) during indirect coating. The coating medium transmits on the fiber web and catches materials after a web break. The device for direct or indirect coating of fluid or pasty medium such as coating color, on a moving paper-, cardboard or other fibrous web (5), comprises a coating aggregate (6, 7) adapted on the width of the fibrous web to be coated, a coating unit (8) adapted on the width of the coating aggregate. The coating aggregate delivers the coating medium on the moving web during direct coating and on a transmission element (2, 3) during indirect coating. The coating medium transmits on the fiber web and catches materials such as culled, removed and/or injected coating medium and/or flake of the coating medium after a web break. The coating unit comprises outlets, from which a part of the caught material flows off. Means are intended by which a part of the caught materials is removable from the coating unit. The coating unit comprises a flap (11) with which an additional discharging opening is releasable. The flap is mounted on one of the both lateral front side of the coating unit on which the additional discharging opening is present. The additional discharging opening exists on one of the both lateral front side of the coating unit. The coating unit comprises a tub-like receiving part, which is pivotable from its first receiving position into second receiving position, and a guiding plate by which the caught materials are guidable into the receiving part. The coating unit is equipped with a shredder for the caught material and is subjected with a cleaning arrangement. The high pressure cleaning device is intended as cleaning device and delivers a water jet, which is used to add a cleaning agent. The means is controllably and/or automatably operatable. The coating unit is bound in a regulating circuit with a detection arrangement and/or sensor for detecting the condition and/or filling level of the coating unit. The detection arrangement is connected with an evaluation unit and a position unit and the means releases an acoustic and/or visual signal dependent upon the detection result. The detection arrangement is firmly installed and is guidable in longitudinal direction of the coating unit. The use of the means is feasible during the normal coating process. The means are separated from one another or arranged together.

Abstract (de)

Die Erfindung betrifft eine Auftragsvorrichtung (1) zum direkten oder indirekten Auftragen eines flüssigen bis pastösen Mediums (M), wie Streichfarbe, auf eine laufende Papier-, Karton-, oder andere Faserstoffbahn (5) mit: - einem an die Breite der zu beschichtenden Faserstoffbahn (5) angepassten Auftragsaggregat (6, 7), welches das Auftragsmediums (M) bei direktem Auftrag an die laufende Faserstoffbahn (5) und bei indirektem Auftrag an ein Übertragselement ((2, 3) abgibt, das das Auftragsmedium (M) danach auf die Faserstoffbahn (5) überträgt, und - einer an die Breites des Auftragsaggregates(6, 7) angepassten Auffangeinrichtung (8), die Stoffe, wie überschüssiges, abgerakeltes und/oder abspritzendes Auftragsmedium (M) und/oder Fetzen der Faserstoffbahn (5) nach einem Bahnabriss aufnimmt. Erfindungsgemäß ist vorgesehen, dass Mittel (9) vorgesehen sind, mit denen die aufgefangenen Stoffe selbsttätig aus der Auffangeinrichtung (8) entfernbar sind.

IPC 8 full level  
**B08B 3/02** (2006.01); **B05C 1/08** (2006.01); **B05C 11/10** (2006.01); **D21H 23/32** (2006.01); **D21H 25/08** (2006.01)

CPC (source: EP)  
**D21H 23/32** (2013.01); **D21H 23/56** (2013.01); **D21H 25/08** (2013.01)

Citation (applicant)  
DE 10238728 A1 20040304 - VOITH PAPER PATENT GMBH [DE]

Citation (search report)  
• [X] EP 1607521 A1 20051221 - VOITH PAPER PATENT GMBH [DE]  
• [X] EP 1595601 A2 20051116 - VOITH PAPER PATENT GMBH [DE]  
• [XY] JP 2002301419 A 20021015 - MITSUBISHI HEAVY IND LTD  
• [X] JP 2000157913 A 20000613 - KYOKUTO SANKI KK  
• [X] DE 60017792 T2 20060330 - UMV COATING AB SAEFFLE [SE]  
• [X] DE 19733333 A1 19990204 - VOITH SULZER PAPIERMASCH GMBH [DE]  
• [X] JP H0910634 A 19970114 - KIKUSUI KAGAKU KOGYO KK  
• [X] DE 102004047239 A1 20060413 - VOITH PAPER PATENT GMBH [DE]  
• [X] EP 1348549 A1 20031001 - HEIDELBERGER DRUCKMASCH AG [DE]  
• [Y] US 2004071883 A1 20040415 - OGAWA TOMONARI [JP], et al

Cited by  
EP2258901A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2072153 A1 20090624**; DE 102007055891 A1 20090625

DOCDB simple family (application)  
**EP 08105964 A 20081210**; DE 102007055891 A 20071220