

Title (en)
Coating device

Title (de)
Auftragsvorrichtung

Title (fr)
Dispositif d'enduction

Publication
EP 1118708 B1 20060405 (DE)

Application
EP 01100235 A 20010103

Priority
DE 10001393 A 20000114

Abstract (en)
[origin: EP1118708A2] The applicator (10a) for coating the surface of a moving fiber web with a liquid or paste coating medium (28) has a distribution channel (26a) and the flow openings (34) into the equalizing channel (32a) are at the function unit (12a), which is in a swing mounting at or anchored to the carrier structure (14). The distribution channel (26a) has a longitudinal and pref. rectangular cross section. A run-off gutter (56) is under the function unit (12a). A swing drive, with a motor-driven spindle lift, swings the function unit (12a) in relation to the carrier structure (14), and at least one limit stop restricts the swing movement. A further function unit (18a) is mounted to the carrier structure (14) or a fitting (20) at it, as a doctor (42a) to give a dosing and/or equalizing action on the applied coating layer (54) of the coating medium (28) on the web surface (U). The doctor unit (18a), function unit (12a) and the applicator chamber (44a) together form a short dwell time applicator (SDTA). Or the function units (12a,18a) together with an applicator jet form a free stream jet applicator. The function unit (12a) is exchangeable with one cover which forms the limit wall section (31) to define the equalizing chamber (32a), fitted to the carrier structure (14). The replacement function unit has a number of separate applicator jets from the distribution channel, across (Q) the web width, to deliver the coating medium (28) to the running web surface (U). The same structure can be used for an indirect coating action on the web surface (U).

IPC 8 full level
D21H 23/34 (2006.01); **B05C 1/08** (2006.01); **B05C 11/02** (2006.01); **B05C 11/04** (2006.01); **B05C 11/10** (2006.01); **D21H 23/56** (2006.01); **B05C 3/18** (2006.01)

CPC (source: EP)
B05C 11/025 (2013.01); **D21H 23/34** (2013.01); **B05C 3/18** (2013.01)

Cited by
WO2014184046A1; DE102009002017A1; WO2010112243A1; TWI506150B

Designated contracting state (EPC)
AT DE FI SE

DOCDB simple family (publication)
EP 1118708 A2 20010725; **EP 1118708 A3 20020814**; **EP 1118708 B1 20060405**; AT E322577 T1 20060415; DE 10001393 A1 20010719; DE 50109407 D1 20060518

DOCDB simple family (application)
EP 01100235 A 20010103; AT 01100235 T 20010103; DE 10001393 A 20000114; DE 50109407 T 20010103