

Title (en)
Device for regulating the width of a film surface on a paper web

Title (de)
Vorrichtung zur Breitenregulierung eines Oberflächenfilmes auf einer Papierbahn

Title (fr)
Dispositif de réglage de la laize d'un film de surface sur une bande de papier

Publication
EP 2233215 A1 20100929 (FR)

Application
EP 10157065 A 20100319

Priority
FR 0951899 A 20090324

Abstract (en)
The device comprises a fixed scraping member (3) to rub against a transfer drum (2) of the surface film and to define the maximum (Lmax) width of the film to be deposited, and a movable scraping body (11, 12) to move along a first direction normal to the surface of the transfer drum and to a direction parallel to a generator for transferring the drum. The device is intended to connect with the drum for transferring the film on the paper strip. The movable scraping member connects with an automated shifting mechanism (13) to adjust the width (L) of the surface film on the transfer drum. The device comprises a fixed scraping member (3) to rub against a transfer drum (2) of the surface film and to define the maximum (Lmax) width of the film to be deposited, and a movable scraping body (11, 12) to move along a first direction normal to the surface of the transfer drum and to a direction parallel to a generator for transferring the drum. The device is intended to connect with the drum for transferring the film on the paper strip. The movable scraping member connects with an automated shifting mechanism (13) to adjust the width (L) of the surface film on the transfer drum between a minimum value (Lmin) and maximum value (Lmax) determined by the fixed scraping body. The automated shifting mechanism comprises a carriage (15) for rotating movable scraping member in a direction parallel to a generator of the transfer drum and a unit for tilting the movable scraping body on the transfer drum. The rotating carriage comprises a cart for supporting movable scraping member and a motor for shifting the cart rotating along a direction parallel to a generator of the transfer drum provided using a guiding unit. The carriage is made of screw-nut and the support cart is fixed by a nut connecting with a threaded axis rotated by the motor. The tilting unit comprises a cylinder. The movable scraping member and the fixed scraping member are vertically spaced with respect to each other. The automated shifting mechanism allows a partial superposition of the movable scraping member with fixed scraping member. The fixed and movable scraping members each comprises a friction doctor blade on the drum, and a cup for recovering of scraped surface film on the drum. The cup for recovery is laid under the friction blade for recovering the surface film flowing under gravity under the plate after scraping of the surface of the transferring drum. An independent claim is included for a system for application of a surface film on a paper strip.

Abstract (fr)
La présente invention concerne un dispositif (1) de réglage de la laize (L) de dépôt d'un film de surface sur une bande ou feuille de papier. Ce dispositif est destiné à coopérer avec au moins un tambour de transfert (2) dudit film de surface, et comporte au moins un organe de raclage fixe (3) apte à frotter contre ledit tambour de transfert et adapté pour délimiter la laize maximale (Lmax) du film à déposer. Ce dispositif est caractérisé en ce qu'il comporte au moins un organe de raclage mobile (11, 12) selon au moins une première direction sensiblement normale à la surface du tambour de transfert, et selon au moins une direction sensiblement parallèle à une génératrice dudit tambour de transfert (2), ledit organe de raclage mobile (11, 12) coopérant avec un mécanisme de déplacement (13) automatisé, de manière à régler la laize (L) du film de surface sur le tambour de transfert (2) entre une valeur minimale (Lmin) et une valeur maximale (Lmax) déterminée par l'organe de raclage fixe.

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

CPC (source: EP)
B05C 11/041 (2013.01); **B05C 11/1039** (2013.01); **D21H 23/64** (2013.01)

Citation (search report)
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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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA ME RS

DOCDB simple family (publication)
EP 2233215 A1 20100929; **EP 2233215 B1 20140827**; ES 2524945 T3 20141215; FR 2943692 A1 20101001; FR 2943692 B1 20110422; PL 2233215 T3 20150227; PT 2233215 E 20141205; SI 2233215 T1 20150130

DOCDB simple family (application)
EP 10157065 A 20100319; ES 10157065 T 20100319; FR 0951899 A 20090324; PL 10157065 T 20100319; PT 10157065 T 20100319; SI 201030812 T 20100319