

Title (en)  
METHOD FOR SETTING THE LAYER THICKNESS OF A COVERING COATING MATERIAL TO BE APPLIED TO A SUBSTRATE BY AN APPLICATION DEVICE

Title (de)  
VERFAHREN ZUM EINSTELLEN EINER SCHICHTDICKE EINES VON EINER AUFTRAGEINRICHTUNG AUF EIN SUBSTRAT AUFZUTRAGENDEN DECKENDEN BESCHICHTUNGSSTOFFES

Title (fr)  
PROCÉDÉ PERMETTANT D'AJUSTER UNE DENSITÉ DE COUCHE D'UN MATÉRIAU DE REVÊTEMENT DEVANT ÊTRE APPLIQUÉ PAR UN DISPOSITIF D'APPLICATION SUR UN SUBSTRAT DE MANIÈRE À LE RECOUVRIR

Publication  
**EP 3843999 B1 20220824 (DE)**

Application  
**EP 19752500 A 20190809**

Priority  
• DE 102018121301 A 20180831  
• EP 2019071451 W 20190809

Abstract (en)  
[origin: WO2020043463A1] The invention relates to a method for setting the layer thickness of a covering coating material to be applied to a substrate (13) by an application device (04), wherein: the coating material is applied to the substrate (13) in a printing machine or in a paper-processing machine; the coating material is applied at various points on the substrate (13) in question by means of the application device (04) in a machine process; at each of at least one first point on the substrate in question (13), the coating material is applied in a grid having a plurality of grid points, and at each of at least one other second point on the substrate (13) in question, the coating material is applied over the full area; each first point in question on the substrate (13) in question forms a grid zone and each second point in question on the substrate (13) in question forms a solid zone; a control unit (06) connected to a sensing device (12) determines respective values for the optical density of the layer of the coating material applied at the points in question on the substrate (13) from data captured by the sensing device (12) at the first and second points on the substrate (13) in question; the control unit (06) defines the layer thickness of the coating material currently applied to the substrate (13) in question by the application device (04) in the ongoing machine process, at which layer thickness the value of the optical density determined in a grid zone corresponds to the value of the optical density determined in a solid zone, as the layer thickness of the coating material having an opacity of 100%.

IPC 8 full level  
**B41F 33/00** (2006.01); **B05D 1/28** (2006.01); **B41J 11/00** (2006.01)

CPC (source: EP US)  
**B05D 1/28** (2013.01 - US); **B41F 33/0027** (2013.01 - US); **B41F 33/0045** (2013.01 - EP US); **B41J 11/0015** (2013.01 - EP US); **B05D 1/28** (2013.01 - EP); **B05D 2252/02** (2013.01 - EP US); **B41P 2233/11** (2013.01 - EP US); **B41P 2233/30** (2013.01 - US); **B41P 2233/51** (2013.01 - EP US)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2020043463 A1 20200305**; DE 102018121301 A1 20200305; EP 3843999 A1 20210707; EP 3843999 B1 20220824; US 11173702 B2 20211116; US 2021162734 A1 20210603

DOCDB simple family (application)  
**EP 2019071451 W 20190809**; DE 102018121301 A 20180831; EP 19752500 A 20190809; US 201915734255 A 20190809