

Title (en)

Device for creating coated paper, cardboard or other strips of fibrous material with at least one thermo-sensitive layer and method for operating such a device

Title (de)

Vorrichtung zur Erzeugung von beschichteten Papier-, Karton- oder anderen Faserstoffbahnen mit zumindest einer thermosensitiven Schicht und Verfahren zum Betreiben einer derartigen Vorrichtung

Title (fr)

Dispositif de production de bandes de matière fibreuse de papier, de carton ou autres revêtues dotées au moins d'une couche thermosensible et procédé de fonctionnement d'un tel dispositif

Publication

**EP 2157239 B1 20110817 (DE)**

Application

**EP 09168040 A 20090818**

Priority

DE 102008041419 A 20080821

Abstract (en)

[origin: EP2157239A1] The device comprises coating units, drying systems, a web turning apparatus arranged in connection between two means (7, 8) forming function layers under formation of a first web guiding path, and means (15) for bypassing the web turning apparatus arranged between the means forming the function layers under formation of a second web guiding path. The means for bypassing the web turning apparatus comprises conducting- and/or guiding elements for guiding carrier webs that are arranged and implemented in order to produce a branching (11) in the web guidance behind the first function layer. The device comprises coating units, drying systems, a web turning apparatus arranged in connection between two means (7, 8) forming function layers under formation of a first web guiding path, and means (15) for bypassing the web turning apparatus arranged between the means forming the function layers under formation of a second web guiding path. The means for bypassing the web turning apparatus comprises conducting- and/or guiding elements for guiding carrier webs that are arranged and implemented in order to produce a branching (11) in the web guidance behind the first function layer under formation of a bypass for web turning apparatus and a junction (13) of the both web guidance path before the means forming second function layer. The coating units and the drying systems are formed and arranged in the means forming function layers in such a way that the carrier web is freely implemented by a return of the curve direction in longitudinal direction of the device observed within the means forming function layers. The coating units and the drying systems are arranged in means forming function layers in a horizontal plain or in a vertical plain. The curtain coating tool comprises coating nozzles extending itself in breadth-direction of the carrier web. The coating nozzle is connected over a coating medium supply with a coating medium supply system (16). An individual curtain coating tool is assigned two coating medium supply system for different coating mediums, which are alternatively coupled. The coating medium supply system consists of a thermosensitive coating medium. The drying systems of the means forming function layers comprise a coating unit, which is formed as hot air drying unit. An independent claim is included for a method for the production of coated paper, cardboard or other fiber material web.

IPC 8 full level

**D21H 23/48** (2006.01); **B05C 5/00** (2006.01); **B05D 1/30** (2006.01)

CPC (source: EP US)

**B05C 5/005** (2013.01 - EP US); **D21H 23/48** (2013.01 - EP US)

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

DOCDB simple family (publication)

**EP 2157239 A1 20100224**; **EP 2157239 B1 20110817**; AT E520825 T1 20110915; DE 102008041419 A1 20100225; ES 2369174 T3 20111128; US 2010051223 A1 20100304; US 8066850 B2 20111129

DOCDB simple family (application)

**EP 09168040 A 20090818**; AT 09168040 T 20090818; DE 102008041419 A 20080821; ES 09168040 T 20090818; US 54291909 A 20090818