

Title (en)

Method and arrangement for applying a substance layer onto a running fiber web by foam application

Title (de)

Verfahren und Anordnung zur Auftragung einer Substanzschicht auf eine laufende Faserstoffbahn durch Schaumauftragung

Title (fr)

Procédé et dispositif permettant d'appliquer une couche de substance sur une bande de fibre de roulement par application de mousse

Publication

EP 2843130 A1 20150304 (EN)

Application

EP 13181689 A 20130826

Priority

EP 13181689 A 20130826

Abstract (en)

The invention relates to a method for applying at least one substance layer (C) in form of foam onto a running fiber web by foam application by at least one foam application unit (12)- A boundary layer air flow carried by the fiber web (W) is removed by boundary layer air flow removing means (14) before applying the foam formed substance onto the fiber web (W) by the foam application unit (12) and the fiber web runs at speed, which is at least 250 m/min. The invention also relates to an arrangement for applying at least one substance layer (C) in form of foam onto a running fiber web by foam application comprising a foaming device (23), a pumping device (22) and at least one foam application unit (12). The arrangement comprises at least one boundary layer air flow removing means (14) and that the running speed of the fiber web (W) is at least 250 m/min.

IPC 8 full level

D21H 19/70 (2006.01); **D21H 21/56** (2006.01); **D21H 23/30** (2006.01); **D21H 23/50** (2006.01)

CPC (source: EP)

D21H 19/70 (2013.01); **D21H 21/56** (2013.01); **D21H 23/30** (2013.01); **D21H 23/50** (2013.01)

Citation (applicant)

DE 19941194 A1 20010301 - VOITH PAPER PATENT GMBH [DE]

Citation (search report)

- [X] US 2003085009 A1 20030508 - CAPIZZI JOSEPH GEORGE [US], et al
- [X] US 2003221808 A1 20031204 - CAPIZZI JOSEPH G [US]
- [X] WO 0216689 A2 20020228 - KIMBERLY CLARK CO [US]
- [A] EP 1283299 A2 20030212 - JOHNS MANVILLE INT INC [US]
- [A] WO 2012069283 A1 20120531 - EVONIK OXENO GMBH [DE], et al
- [A] WO 2009106968 A2 20090903 - STORA ENSO OYJ [FI], et al
- [A] WO 9713036 A1 19970410 - VALMET CORP [FI], et al
- [A] US 2003145785 A1 20030807 - BERNERT RICHARD [DE], et al
- [A] WO 0116427 A1 20010308 - VALMET CORP [FI], et al
- [AD] DE 19941194 A1 20010301 - VOITH PAPER PATENT GMBH [DE]

Cited by

CN112695419A; CN111041892A; DE102017130071A1; EP4153813A4; US10519606B2; US11591755B2; US11001969B2; US11255051B2; US11313061B2; US11788221B2; WO2018011667A1; WO2022180307A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2843130 A1 20150304

DOCDB simple family (application)

EP 13181689 A 20130826