

Title (en)

A CURTAIN COATING METHOD AND A DEVICE FOR APPLYING THE SAME

Title (de)

VORHANGBESCHICHTUNGSVERFAHREN UND VORRICHTUNG ZUR ANWENDUNG DES VERFAHRENS

Title (fr)

PROCEDE D'ENDUCTION A RIDEAU ET DISPOSITIF DE MISE EN OEUVRE DE CE PROCEDE

Publication

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Application

EP 06708962 A 20060210

Priority

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- FI 20055094 A 20050225

Abstract (en)

[origin: WO2006090008A1] The present invention relates to curtain coating method for coating a material web (W). In the method, coating agent (2) is applied from a curtain coater (1) located above the material web (W), moving supported by a support element (3), as a curtain-like flow (2) to a point of impact (22) on the surface of the material web (W), boundary layer air (4) being removed from the surface of the material web (W) at a point in front of the point of impact (22). Air (5) is supplied to the surface of the moving material web (W) at an oblique angle with respect to the material web (W), so that the airflow (5) has an opposite component with respect to the direction of travel of the material web (W). The pressure level in the impact point area (22) is controlled by supplying stabilising air (6) from a point in front of the impact point (22) to the impact point area (22) at an oblique angle with respect to the direction of travel of the material web (W), so that the airflow (6) has a component parallel to the direction of travel of the material web (W), and by removing the stabilising air (7) from a point before the stabilising air (7) inlet. A further object of the present invention is a device applying the method.

IPC 8 full level

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Citation (search report)

- [A] WO 2004113615 A1 20041229 - METSO PAPER INC [FI], et al
- [AD] WO 03053597 A1 20030703 - DOW GLOBAL TECHNOLOGIES INC [US], et al
- [AD] EP 1142647 A2 20011010 - MITSUBISHI HEAVY IND LTD [JP]
- See references of WO 2006090008A1

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DOCDB simple family (publication)

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