

Title (en)

Method and system for applying a suspension to a sheet of material

Title (de)

Verfahren und Anlage zum Aufbringen einer Suspension auf eine Materialbahn

Title (fr)

Procédé et installation destinés à l'application d'une suspension sur une bande de matériau

Publication

**EP 2223748 B1 20130619 (DE)**

Application

**EP 10153943 A 20100218**

Priority

DE 102009009862 A 20090220

Abstract (en)

[origin: EP2223748A1] The method for applying a suspension such as coating color, starch, binder, adhesive, impregnating agent or like surface coating agent onto a moving surface of a material web such as a paper web by spraying using a nozzle (1), is claimed. The spraying of the suspension takes place using water vapor or water vapor/air mixture. The water vapor/air mixture is saturated or unsaturated air. The air is used with a temperature of 25-40[deg] C for producing water vapor/air mixture. The water vapor is used with a temperature of 100-130[deg] C for producing water vapor/air mixture. The method for applying a suspension such as coating color, starch, binder, adhesive, impregnating agent or like surface coating agent onto a moving surface of a material web such as a paper web by spraying using a nozzle (1), is claimed. The spraying of the suspension takes place using water vapor or water vapor/air mixture. The water vapor/air mixture is saturated or unsaturated air. The air is used with a temperature of 25-40[deg] C for producing water vapor/air mixture. The water vapor is used with a temperature of 100-130[deg] C for producing water vapor/air mixture. The water vapor/air mixture is supplied to the nozzle at 80-110[deg] C with a pressure of 250-500 mbar. The suspension has a viscosity of 15-100 mPa.s and a solid content of 10-50. A plastic e.g. polyetheretherketone is used as material for the nozzle.

IPC 8 full level

**B05B 7/00** (2006.01); **D21H 23/50** (2006.01)

CPC (source: EP)

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