

Title (en)
DEVICE FOR APPLYING A COATING MATERIAL TO A PAPER WEB

Title (de)
VORRICHTUNG ZUM AUFTRAGEN EINER BESCHICHTUNGSMASSE AUF EINE PAPIERBAHN

Title (fr)
SYSTEME POUR APPLIQUER UNE MASSE DE REVETEMENT SUR UNE BANDE DE PAPIER

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Application
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Abstract (en)
[origin: WO2006069646A1] The invention relates to a device for applying a coating material, which consists of a liquid resin and a fine-particled abrasive material, to a continuously pre-impregnated paper web which is used in the production of abrasion-resistant laminates. Said device comprises a deflection roller whereon the paper web is arranged in the contact area, a dosing roller which is arranged in a parallel manner on the deflection roller, a narrow gap which encompasses said two rollers, and an application unit. Known application units comprise slot nozzles through which the treatment material is injected into the paper web. The problem thereof is that a complete cross-linking of the paper web is difficult to obtain and the treatment material is injected, in excess, into the paper web. The aim of the invention is to overcome said problems. According to the invention, the application unit comprises a defining element which is arranged in the running direction of the web upstream from the gap, and enables a gore to be formed between the deflection roller and the defining element in order to receive the coating material. The invention also relates to the impregnation of paper for producing highly abrasion-resistant laminate.

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