

Title (en)  
PROCESS FOR REINFORCING A HYDRO-ENTANGLED PULP FIBRE MATERIAL, AND HYDRO-ENTANGLED PULP FIBRE MATERIAL REINFORCED BY THE PROCESS

Title (de)  
VERFAHREN ZUR VERSTÄRKUNG EINES WASSERSTRAHLVERWIRBELTEN PULPFASERMATERIALS UND SO VERSTÄRKTES WASSERSTRAHLVERWIRBELTES PULPFASERMATERIAL

Title (fr)  
PROCEDE DE RENFORCEMENT DE MATIERE FIBREUSE DE PATE A PAPIER HYDRO-ENCHEVETREE ET MATIERE FIBREUSE DE PATE A PAPIER HYDRO-ENCHEVETREE RENFORCEE PAR LE PROCEDE

Publication  
**EP 1699960 A1 20060913 (EN)**

Application  
**EP 04820695 A 20041123**

Priority  
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• SE 0303509 A 20031222

Abstract (en)  
[origin: WO2005061772A1] A process for reinforcing a hydro-entangled pulp fibre material, wherein pulp fibres, including pulp fines, and water are mixed in order form a fibre suspension which is dewatered in order to form a precursor fibre web which is hydro-entangled at a maximum water-jet pressure higher than 85 bar and then dried. Reinforcement fibres, having a fibre length above 5 mm, are introduced into the process and a small amount from about 0.5 to about 10 g/m2 dry solids of a copolymer dispersion is applied as a substantially continuous coating onto the precursor web being in a wet state enabling the copolymer dispersion to migrate in a z-direction in order to become uniformly distributed throughout the web after the drying, resulting in a reinforced fibre network capable of binding and retaining a majority of the pulp fibres and any remaining fines within the material while maintaining a low material stiffness.

IPC 8 full level  
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