

Title (en)

A PROCESS FOR PRODUCTION OF PAPER MATERIALS WITH IMPROVED WET STRENGTH

Title (de)

Verfahren zur Herstellung von Papiermaterialien mit verbesserter Na festigkeit

Title (fr)

PROCEDE DE PRODUCTION DE MATERIAUX DE TYPE PAPIER PRESENTANT UNE RESISTANCE A L'HUMIDITE AMELIOREE

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Application

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Priority

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Abstract (en)

[origin: WO0068500A1] The present invention relates to a process for production of paper materials with improved wet strength, comprising: (a) preparing a suspension of unbleached or semi-bleached chemical or semichemical pulp or pulp from recycled fibres; (b) treating the pulp with a phenol oxidizing enzyme and a mediator; and (c) de-watering the treated pulp in a paper making machine to remove process water and produce the paper material. Preferably the paper material is heated after the completion of step (c). Further, the invention relates to a process for producing corrugated paperboard or corrugated containers and to the use of a phenol-oxidizing enzyme in combination with a mediator to produce a paper material with improved wet strength. By the process of the invention the wet strength of paper materials can be improved without using wet strength resins which makes the product more easily re-used.

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