

Title (en)
PROCEDURE AND SYSTEM FOR REFINING A FIBROUS MATERIAL WITH IMPROVED ENERGY EFFICENCY AND PULP QUALITY

Title (de)
VERFAHREN UND SYSTEM ZUR VERFEINERUNG EINES FASERMATERIALS MIT VERBESSERTER ENERGIEEFFIZIENZ UND PULPEQUALITÄT

Title (fr)
TECHNIQUE ET SYSTÈME POUR BROIER UN MATÉRIAU FIBREUX AVEC RENDEMENT D'ÉNERGIE ET QUALITÉ DE PÂTE AMÉLIORÉS

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Application
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Abstract (en)
[origin: WO2011045090A1] A method is described for controlling a process section for refining fibrous material such as wood pulp, cellulose pulp and the like. The process section has a refiner driven by a motor of which the speed is variable. Using a multivariable control method the process may be optimised for energy by varying the rotation speed of the refiner. The process section may also have at least one first refiner having a plurality of sensors arranged in a predetermined position on a refiner plate of the at least one first refiner. The method may also comprise measuring, alternatively estimating, one or more process variables representing external states outside of the refiner (?1,Q1) for said process section and measuring, alternatively estimating, one or more values representing one or more internal states (?1) inside said at least one first refiner, and by calculating a change for said at least one manipulated variable (u1) for said at least one refiner using said measurement of an internal state (? 1) of said at least one refiner and a measurement of said one or more process external states (n1,Q1) for said process section by means of a mathematical process model.

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