

Title (en)

METHOD OF PRODUCING A PULP OF CELLULOSIC MATERIAL, THE PULP ITSELF AND THE USE THEREOF

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER PULPE AUS ZELLULOSEHALTIGEM MATERIAL, DIE PULPE SELBST UND DEREN VERWENDUNG

Title (fr)

PROCEDE DE PRODUCTION DE PULPE D'UN MATERIAU CELLULOSIQUE, PULPE OBTENUE ET SON UTILISATION

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Application

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Abstract (en)

[origin: US6183597B1] A process for producing a pulp from cellulose-containing material, wherein the material is reacted with formic acid as the solvent, and cooked at approximately the boiling temperature of the solvent, whereby return condensation is used. Annual plants, deciduous or coniferous wood can be used as the cellulose-containing material. In one variant of the process, the cellulose-containing material is only slightly warmed, whereby backflow cooling is used, and then a precisely predetermined quantity of hydrogen peroxide is slowly added to the liquid at a constant rate. This process variant can be repeated at a lower cooking temperature. The pulp thus obtained is preferably utilized in the production of cellulose, and in particular in the production of paper or cardboard. It is proposed that the lignin, which is isolated from the cellulose-containing material, have further applications, whereby such lignin is, after the pulp has been separated from the solvent, itself precipitated out in water. The lignin thus obtained can be used as a new building material, as a filler material or as an output substance to be used in the manufacture of aromatic products.

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