

Title (en)

COMPACT PROCESS FOR PRODUCING PREHYDROLYZED PULP

Title (de)

KOMPAKTES VERFAHREN ZUR HERSTELLUNG VON VORHYDROLYSIERTEM ZELLSTOFF

Title (fr)

PROCÉDÉ COMPACT D'OBTENTION DE PÂTE PRÉALABLEMENT HYDROLYSÉE

Publication

EP 2707539 B1 20190508 (EN)

Application

EP 11865841 A 20110513

Priority

SE 2011050610 W 20110513

Abstract (en)

[origin: WO2012158075A1] The invention is related to an improved compact process for producing dissolving pulp in a prehydrolysis kraft cooking process. In order to avoid pitch problems with blocked withdrawal screens and to obtain a distinct ending of the prehydrolysis stage, as well as a thorough alkaline impregnation ahead of the kraft cook stage, alkali is charged to the mixture of prehydrolyzed material to such an extent that the residual alkali concentration after neutralization of the acidic hydrolysate is above 20 g/l EA as NaOH and the temperature of the resulting alkaline treatment liquor for the prehydrolyzed material is lowered by at least 10% in comparison to the temperature in the prehydrolysis stage. The alkali charge will avoid redeposition of hemicelluloses dissolved in the prehydrolyse stage and will abruptly swing the wood material mixture to alkaline conditions favourable for a alkali impregnation stage at reduced temperature ahead of the final kraft cooking stage, which impregnation stage will extract the major part of the hemicelluloses content of the cellulose material.

IPC 8 full level

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