Title (en)
PEROXIDE BLEACHING PROCESS FOR CELLULOSIC AND LIGNOCELLULOSIC MATERIAL

Title (de)
VERFAHREN ZUM PEROXIDBLEICHEN VON CELLULOSISCHEN UND LIGNOCELLULOSISCHEN MATERIALEN

Title (fr)
PROCEDE DE BLANCHIMENT AU PEROXYDE DE SUBSTANCES CELLULOSIQUES ET LIGNOCELLULOSIQUES

Publication
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Application
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Priority
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Abstract (en)
[origin: WO9601920A1] A method for bleaching cellulosic and lignocellulosic pulp using hydrogen peroxide as a bleaching reagent, utilizes a two-step reaction, viz. a short high temperature step at a pressure sufficient to suppress boiling and a longer atmospheric pressure reduced temperature step to consume a substantial portion of the hydrogen peroxide remaining after the short phase. The method includes the steps of introducing pulp (15), at a consistency of 10 %-18 %, to a mixer (100) in which the pulp is heated to a temperature above 100 DEG C; adding sufficient sodium hydroxide to bring the pulp to a pH of 8.5; adding sufficient hydrogen peroxide (36) to equal from about 0.5 %-5.0 %, by weight, of the pulp; passing the pulp through a pressurized reactor column (400) at a rate providing a reaction time in the column of between 1 and 30 minutes; and depositing the pulp in a reaction tower and allowing the reaction to proceed for 1-5 hours until a substantial portion of the residual hydrogen peroxide has been consumed. It may be desirable to introduce the pulp to a mixer and add alkali to reactivate residual hydrogen peroxide by bringing the pulp to a pH of at least 9 between bleaching steps.

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