

Title (en)
METHOD FOR BLEACHING WOOD PULP USING HYDROGEN PEROXIDE

Title (de)
VERFAHREN ZUM BLEICHEN VON HOLZZELLSTOFF MITTELS WASSERSTOFFPEROXID

Title (fr)
PROCEDE DE BLANCHIMENT DE PATE DE BOIS AU PEROXYDE D'HYDROGENE

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EP 0770158 B1 19981021 (EN)

Application
EP 95925355 A 19950628

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Abstract (en)
[origin: WO9601922A1] A method for bleaching wood pulp using a hydrogen peroxide solution as a bleaching agent, utilizes a two phase reaction, viz. a short high temperature phase followed by a longer second phase to consume virtually all the hydrogen peroxide remaining after the short phase. The method includes the steps of introducing pulp (10), at a consistency of 10-18 %, to a mixer (100) in which the pulp is heated to a temperature between 80 and 100 DEG C; adding sufficient sodium hydroxide (15) to bring the pulp to a pH of 9.5-11.5; adding sufficient hydrogen peroxide (35) to provide a peroxide residual after the first reactor column; passing the pulp through a reactor column (400) at a rate providing a reaction time on the column of between 5 to 60 minutes; introducing the pulp to a mixer (500) and reactivating residual hydrogen peroxide by bringing the pulp to a pH of at least 9; and depositing the pulp in a reaction tower (600) and allowing the reaction to proceed for 1-4 hours until a substantial portion of the residual hydrogen peroxide has been consumed.

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