

## Title (en)

Peroxide bleaching process for cellulosic and lignocellulosic material

## Title (de)

Verfahren zum Peroxidbleichen von zellulosischen Materialien

## Title (fr)

Procédé de blanchiment au peroxyde de substances cellulosiques et lignocellulosiquesm

## Publication

**EP 0919661 A1 19990602 (EN)**

## Application

**EP 98204179 A 19950629**

## Priority

- EP 95926123 A 19950629
- US 27353994 A 19940711

## Abstract (en)

A method for bleaching cellulosic and lignocellulosic pulp using hydrogen peroxide as a bleaching reagent, utilizes a three stage reaction, viz. two short high temperature peroxide bleaching steps (50,160) at a pressure sufficient to suppress boiling and an interstage treatment (90) including a longer atmospheric pressure reduced temperature bleaching step. The two short peroxide bleaching stages include the steps of introducing pulp, at a consistency of 10%-18%, to a mixer (20,130) in which the pulp is heated to a temperature above 100 degree Celsius; adding sufficient sodium hydroxide (32,142) to bring the pulp to a pH of 8.5; adding sufficient hydrogen peroxide (33,143) to equal from about 0.5%-5.0%, by weight, of the pulp; passing the pulp through a pressurized reactor column (50,160) at a rate providing a reaction time in the column of less than 45 minutes, cooling the pulp and discharging the cooled pulp to a washer. 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 after the first bleaching stage, deposit the pulp in a reaction tower and allowing the reaction to proceed until a substantial portion of the residual hydrogen has been consumed. <IMAGE>

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## Citation (search report)

- [A] EP 0578304 A1 19940112 - SOLVAY INTEROX [BE]
- [A] EP 0285530 A1 19881005 - ATOCHEM ELF SA [FR]
- [A] FR 2661430 A1 19911031 - ATOCHEM [FR]

## Cited by

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## DOCDB simple family (publication)

**WO 9601920 A1 19960125**; AT E189716 T1 20000215; BR 9508388 A 19980714; CA 2194880 A1 19960125; CN 1176673 A 19980318; DE 69515066 D1 20000316; DE 69515066 T2 20010419; DE 797703 T1 19980219; EP 0797703 A1 19971001; EP 0797703 B1 20000209; EP 0919661 A1 19990602; ES 2107399 T1 19971201; ES 2107399 T3 20000701; FI 970104 A0 19970110; FI 970104 A 19970310; JP 2787618 B2 19980820; JP H09508945 A 19970909; PT 797703 E 20000731; RU 2141016 C1 19991110; ZA 955290 B 19961227

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