

Title (en)  
PULP BLEACHING PROCESSES

Title (de)  
ZELLSTOFFBLEICHVERFAHREN

Title (fr)  
MÉTHODE POUR BLANCHIR DE LA PÂTE

Publication  
**EP 1790771 A4 20121003 (EN)**

Application  
**EP 05748560 A 20050608**

Priority  

- JP 2005010521 W 20050608
- JP 2004169367 A 20040608
- JP 2004289267 A 20040930
- JP 2005102615 A 20050331
- JP 2005102558 A 20050331

Abstract (en)  
[origin: EP1790771A1] The present invention aims to further advance the acid treatment or irradiation technology for pulp to develop a bleaching process using smaller amounts of chlorine chemicals with higher efficiency as compared with conventional bleaching processes. It also aims to provide an excellent high brightness pulp having a low environmental impact and no discoloration as well as a paper containing it. The present invention provides a chlorine-free bleaching process with very high efficiency by irradiating a pulp washed after an acid treatment with UV light and/or visible light at a wavelength of 100 - 400 nm under alkaline conditions, preferably in a pH range of 10 - 13. The acid treatment can be performed under conditions of pH 1 - 6 and a temperature of 80 °C or more. The irradiation treatment can be performed in the presence of at least one compound selected from the group consisting of reducing agents, peroxides, and hydrogen-donating organic compounds. The present invention also provides a high brightness chemical pulp having an ISO brightness of 88% or more and a brightness loss of 1.0% or less in a specific fading test.

IPC 8 full level  
**D21C 9/10** (2006.01); **D21C 9/16** (2006.01)

CPC (source: EP US)  
**D21C 9/1005** (2013.01 - EP US); **D21C 9/1084** (2013.01 - EP US); **D21C 9/16** (2013.01 - EP US)

Citation (search report)  

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- [X] JP H06128890 A 19940510 - HONSHU PAPER CO LTD
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- [A] JP 2002088673 A 20020327 - NAT INST OF ADV IND & TECHNOL
- See references of WO 2005121442A1

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CN104372704A

Designated contracting state (EPC)  
FI SE

DOCDB simple family (publication)  
**EP 1790771 A1 20070530; EP 1790771 A4 20121003**; CA 2569848 A1 20051222; CA 2569848 C 20110510; US 2007246176 A1 20071025; WO 2005121442 A1 20051222

DOCDB simple family (application)  
**EP 05748560 A 20050608**; CA 2569848 A 20050608; JP 2005010521 W 20050608; US 62896105 A 20050608