

Title (en)  
PULP BLEACHING PROCESS

Publication  
**EP 0279845 A4 19910109 (EN)**

Application  
**EP 87905881 A 19870825**

Priority  
US 90099286 A 19860828

Abstract (en)  
[origin: WO8801661A1] A multistage pump bleaching process comprising at least three bleaching stages including oxygen extraction (20) in an alkaline medium (EO) of a chlorine (C) or chlorine/chlorine-dioxide (CD) bleaching step (5) followed by a hot alkaline hypochlorite treatment (H\*/E), (28) or followed by a chlorine dioxide (D) treatment with simultaneous treatment with chlorine dioxide (H\*/ED) in the sequence EOH\*/ED or EO(H\*/ED). The novel bleaching sequences result in significant savings in time and operating costs as compared with conventional bleaching sequences capable of producing products of comparable brightness.

IPC 1-7  
**D21C 9/14; D21C 9/147**

IPC 8 full level  
**D21C 9/14** (2006.01)

CPC (source: EP)  
**D21C 9/144** (2013.01)

Citation (search report)

- [A] US 4238281 A 19801209 - HISTED JOHN A [CA]
- [A] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 53, no. 10, April 1983, page 1150, abstract no. 10639, Appleton, Wisconsin, US; J. GUPTA: "Hot hypochlorite sequence reduces bleaching capital [and] chemical costs", & PULP PAPER 56, NO. 10, PAGES 103-105 (OCTOBER 1982)
- See references of WO 8801661A1

Cited by  
CN103266519A; CN103255661A

Designated contracting state (EPC)  
DE FR GB SE

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**WO 8801661 A1 19880310**; EP 0279845 A1 19880831; EP 0279845 A4 19910109; FI 881930 A0 19880425; FI 881930 A 19880425

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