

Title (en)

Method for applying ozone in ECF bleaching

Title (de)

Verfahren zur Verwendung von Ozon im ECF-Bleichverfahren

Title (fr)

Procédé pour l'emploi de l'ozone dans un procédé de blanchiment de type ECF

Publication

**EP 0905307 A1 19990331 (EN)**

Application

**EP 98115927 A 19980824**

Priority

US 91723597 A 19970825

Abstract (en)

An ECF bleaching method for bleaching lignocellulosic materials (20) comprising a bleaching sequence of at least three sequential stages, said stages including an oxidative treatment stage (34), an alkaline extraction stage (42), and an acidification bleaching treatment stage (48) using ozone (70). A preferred process is shown in Fig. 4, which shows the bleaching sequence (10) of DEo(ZE)D. <IMAGE>

IPC 1-7

**D21C 9/10**

IPC 8 full level

**D21C 9/10** (2006.01); **D21C 9/153** (2006.01)

CPC (source: EP KR)

**D21C 3/24** (2013.01 - KR); **D21C 3/263** (2013.01 - KR); **D21C 9/1057** (2013.01 - EP KR); **D21C 9/153** (2013.01 - EP KR); **D21C 9/16** (2013.01 - KR)

Citation (search report)

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- [DX] WO 9118145 A1 19911128 - UNION CAMP CORP [US]
- [DX] US 4959124 A 19900925 - TSAI TED Y [US]
- [X] DE 4039099 A1 19910704 - KAMYR AB [SE]

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Designated contracting state (EPC)

ES IT

DOCDB simple family (publication)

**EP 0905307 A1 19990331**; BR 9803217 A 19991103; CA 2245535 A1 19990225; CN 1209480 A 19990303; ID 23571 A 20000504; KR 19990023814 A 19990325

DOCDB simple family (application)

**EP 98115927 A 19980824**; BR 9803217 A 19980824; CA 2245535 A 19980824; CN 98118627 A 19980821; ID 981108 A 19980806; KR 19980034194 A 19980824