

Title (en)

Process for the chlorine-free bleaching of pulp.

Title (de)

Verfahren zum chlorfreien Bleichen von Zellstoffen.

Title (fr)

Procédé exempt de chlore pour le blanchiment de pâtes cellulosiques.

Publication

**EP 0426652 B1 19940511 (DE)**

Application

**EP 90890291 A 19901030**

Priority

- AT 249489 A 19891030
- AT 258889 A 19891110

Abstract (en)

[origin: EP0426652A1] In the process for chlorine-free bleaching of pulps by means of ozone, a pulp suspension is contacted at a temperature of 15 - 80 DEG C, preferably 40 - 70 DEG C, and at a pH of 1-8, preferably 2-3, with an ozone-containing gas, while vigorously stirring or mixing. The ozone-containing gas contains 20-300 g/m<3>, preferably 50-150 g/m<3>, of ozone. At most 2% by mass, preferably 0.05 - 0.5% by mass, of ozone is used relative to absolutely dry pulp. In order to make this process suitable for a pulp suspension in the medium consistency (MC) range, i.e. for a pulp suspension having a stock consistency of 3 - 20% by mass, preferably 5 - 20% by mass and especially 7 - 15% by mass, the ozone-containing gas is introduced according to the invention under a pressure of 1 - 15 bar, preferably 1.1 - 10 bar, into the pulp suspension. The process can also be carried out in a multi-stage bleaching process once or several times. <IMAGE>

IPC 1-7

**D21C 9/153**; **D21C 9/10**

IPC 8 full level

**D21C 9/10** (2006.01); **D21C 9/00** (2006.01); **D21C 9/153** (2006.01); **D21C 9/16** (2006.01); **D21H 17/00** (2006.01)

IPC 8 main group level

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CPC (source: EP US)

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Cited by

US5607545A; CN1079848C; EP0581631A1; US5770011A; US5364505A; EP0511433A1; US5411633A; EP0577157A3; EP0971066A1; EP0588704A3; US5688367A; EP0517691A1; US5411634A; EP0677611A1; US5529660A; EP0717800A4; WO9312287A1; WO9723666A1; WO9429512A1; WO9413393A1; WO9508021A1; WO9300470A1; WO9300482A1; WO03048663A3; WO9410378A1; WO9420673A1

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