

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 B2 20011114 (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

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IPC 8 full level

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

IPC 8 main group level

D21C (2006.01)

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Cited by

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

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