

Title (en)
ENVIRONMENTALLY IMPROVED PROCESS FOR BLEACHING LIGNOCELLULOSIC MATERIALS

Publication
EP 0483163 A4 19920805 (EN)

Application
EP 90908787 A 19900517

Priority
US 9002823 W 19900517

Abstract (en)
[origin: WO9118145A1] A process for delignifying and bleaching a lignocellulosic pulp without the use of elemental chlorine by partially delignifying the pulp to a K No. of about 10 or less and a viscosity of greater than about 13 cps; and further delignifying the partially delignified pulp with an effective amount of ozone for a sufficient time to obtain a substantially delignified pulp having a K No. of about 5 or less, a viscosity of greater than about 10, and a GE brightness of at least about 50 %. The substantially delignified pulp may be brightened by the addition of a bleaching agent such as chlorine dioxide or a peroxide to obtain a final product having a GE brightness of at least about 65 %, preferably above 70 % to as high as 90 %. Because of the absence of elemental chlorine in this sequence, filtrate from all stages but the chlorine dioxide stage (if used) can be recovered without sewerage. Major environmental improvements are thus achieved.

IPC 1-7
D21C 9/147; **D21C 9/153**

IPC 8 full level
D21C 3/26 (2006.01); **D21C 9/00** (2006.01); **D21C 9/10** (2006.01); **D21C 9/14** (2006.01); **D21C 9/147** (2006.01); **D21C 9/153** (2006.01); **D21C 9/16** (2006.01)

IPC 8 main group level
D21C (2006.01)

CPC (source: EP KR SE)
D21C 9/1057 (2013.01 - EP); **D21C 9/147** (2013.01 - EP KR); **D21C 9/153** (2013.01 - EP SE)

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[AD] US 4619733 A 19861028 - KOOI BOON-LAM [CA]

Designated contracting state (EPC)
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