

Title (en)
METHOD FOR SELECTIVELY DELIGNIFYING LIGNOCELLULOSIC MATERIALS

Title (de)
VERFAHREN ZUR SELEKTIVEN DELIGNIFIZIERUNG LIGNOCELLULOSISCHER MATERIALIEN

Title (fr)
PROCEDE DE DELIGNIFICATION DE SUBSTANCES LIGNO-CELLULOSIQUES

Publication
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Application
EP 99955305 A 19990601

Priority

- US 9912099 W 19990601
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Abstract (en)
[origin: WO9963149A1] Disclosed is a method for delignifying lignocellulosic materials by first treating the material with an alkaline solution in the presence or absence of anthraquinone, and then exposing the material to a polyoxometalate. Inclusion of the alkaline pretreatment step allows delignification to take place at high efficiency and affords high residue yields and viscosities.

IPC 1-7
D21C 9/10

IPC 8 full level
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Citation (search report)

- [X] WO 9526438 A1 19951005 - US AGRICULTURE [US], et al
- [X] US 5552019 A 19960903 - WEINSTOCK IRA A [US], et al
- [A] US 4012280 A 19770315 - HOLTON HARRY HUTCHINSON
- [A] DE 4343508 A1 19950622 - EDEL EUGEN [DE], et al
- [A] FR 2374464 A1 19780713 - CANADIAN IND [CA]
- See references of WO 9963149A1

Designated contracting state (EPC)
DE ES FI GB IT PT SE

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