

Title (en)

Enzymatic delignification of lignocellulosic material.

Title (de)

Enzymatische Delignifizierung von lignocellulosehaltigem Material.

Title (fr)

Délignification enzymatique de matériau lignocellulosique.

Publication

EP 0345715 A1 19891213 (EN)

Application

EP 89110176 A 19890606

Priority

US 23566288 A 19880608

Abstract (en)

A single or plural stage process for the enzymatic delignification of lignocellulosic materials for use in the pulp and paper industry. Each stage comprises the step of incubating the lignocellulosic material with an effective amount of a ligninolytic enzyme preparation, in a reaction mixture comprising hydrogen peroxide at a low steady-state concentration. The ligninolytic enzyme preparation may comprise lignin peroxidases, Mn(II)-dependent peroxidases, or both these enzymes.

IPC 1-7

D21C 3/00

IPC 8 full level

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CPC (source: EP)

D21C 5/005 (2013.01)

Citation (search report)

- [X] DE 3636208 A1 19880505 - CALL HANS PETER [DE]
- [XD] US 4687741 A 19870818 - FARRELL ROBERTA L [US], et al
- [AD] US 4687745 A 19870818 - FARRELL ROBERTA L [US]
- [AD] US 4690895 A 19870901 - FARRELL ROBERTA L [US]
- [X] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 57, no. 7, January 1987, page 959, abstract no. 8578, Appleton, WI, US; V.-B. HUYNH et al.: "Oxidation of lignin model compounds by a manganese-dependent enzyme from phanerochaete chrysosporium as compared to chemically generated Mn(III)"

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EP 0345715 A1 19891213; AU 3604589 A 19891214; AU 624826 B2 19920625; BR 8902665 A 19900123; DK 278489 A 19891209; DK 278489 D0 19890607; FI 892803 A0 19890607; FI 892803 A 19891209; JP H0280687 A 19900320; NO 892335 D0 19890607; NO 892335 L 19891211; NZ 229411 A 19910827; PT 90776 A 19891229; PT 90776 B 19941130; ZA 894239 B 19900328

DOCDB simple family (application)

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