

Title (en)
BLEACHING WOOD PULP WITH ENZYMES

Publication
EP 0418201 A3 19920923 (EN)

Application
EP 90810681 A 19900910

Priority
• GB 8920595 A 19890912
• GB 8920596 A 19890912

Abstract (en)
[origin: EP0418201A2] Wood pulp may be delignified enzymatically with very good results when treating it with a lignin peroxidase in the absence of a peroxide and when the enzyme is firstly chemically modified in such a way that it does not adsorb to the pulp.

IPC 1-7
D21C 3/00; D21C 9/10

IPC 8 full level
C12S 3/08 (2006.01); **D21C 5/00** (2006.01); **D21C 9/10** (2006.01); **D21C 9/147** (2006.01)

CPC (source: EP)
D21C 5/005 (2013.01); **D21C 9/147** (2013.01)

Citation (search report)
• [AD] DE 3636208 A1 19880505 - CALL HANS PETER [DE]
• [AD] JOURNAL OF BIOTECHNOLOGY. vol. 8, no. 2, 1988, AMSTERDAM NL pages 97 - 112; JANSHEKAR, H. ET AL.: 'Cultivation of Phanerochaete chrysosporium and production of lignin peroxidases in submerged stirred tank reactors.'
• [A] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY. vol. 57, no. 7, January 1987, APPLETON US page 959; HUYNH, V.-B. ET AL.: 'Oxidation of lignin model compounds by a Manganese-dependent enzyme from Phanerochaete chrysosporium as compared with chemically generated Mn(III).'

• [A] WORLD PATENTS INDEX LATEST Week 8744, Derwent Publications Ltd., London, GB; AN 87-310987 & JP-A-62 220 190 (OJI PAPER KK) 28 September 1987

Cited by
US5369024A; CN113957737A; US5834301A; US5498534A; WO0198469A3; US6287708B1; WO9831762A1

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EP 0418201 A2 19910320; EP 0418201 A3 19920923; EP 0418201 B1 19941221; AU 6232390 A 19910321; AU 646403 B2 19940224; BR 9004525 A 19910910; CA 2025079 A1 19910313; DE 69015294 D1 19950202; DE 69015294 T2 19950518; ES 2067719 T3 19950401; FI 904456 A0 19900910; JP H03104993 A 19910501; NO 178201 B 19951030; NO 178201 C 19960207; NO 903924 D0 19900910; NO 903924 L 19910313; PT 95273 A 19910522

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