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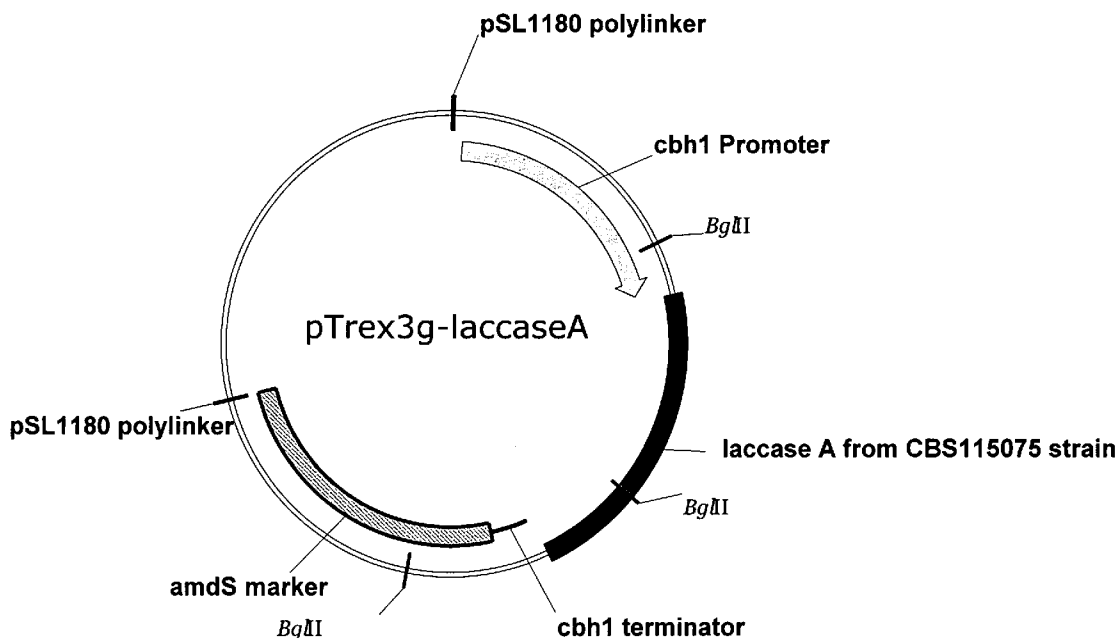
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(54) Title: NOVEL LACCASES, COMPOSITIONS AND METHODS OF USE



(57) Abstract: Novel laccases, nucleic acid sequences encoding such laccases, and vectors and host cells for expressing the laccases are described. The novel laccase enzymes may be employed in conjunction with mediators to provide an improved method for bleaching denim fabrics.

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# INTERNATIONAL SEARCH REPORT

International application No  
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**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. C12N9/02      C12N15/53      D06L3/00      D06P5/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG MIN ET AL: "Characterization and decolorization ability of a laccase from <i>Panus rudis</i> " ENZYME AND MICROBIAL TECHNOLOGY, vol. 39, no. 1, June 2006 (2006-06), pages 92-97; XP002484016 ISSN: 0141-0229 the whole document	1-8

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	WO 96/00290 A (NOVO NORDISK BIOTECH INC [US]; NOVONORDISK AS [DK]) 4 January 1996 (1996-01-04). page 65 - page 67	1-8
X	MICHNIEWICZ ANNA ET AL: "The white-rot fungus <i>Cerrena unicolor</i> strain 137 produces two laccase isoforms with different physico-chemical and catalytic properties" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol. 69, no. 6, February 2006 (2006-02), pages 682-688, XP002484017 ISSN: 0175-7598 the whole document	1-7
A	LYASHENKO ANDREY V ET AL: "Purification, crystallization and preliminary X-ray study of the fungal laccase from <i>Cerrena maxima</i> " ACTA CRYSTALLOGRAPHICA SECTION F STRUCTURAL BIOLOGY AND CRYSTALLIZATION COMMUNICATIONS, vol. 62, no. Part 10, October 2006 (2006-10), pages 954-957, XP002484018 ISSN: 1744-3091(print) 1744-3091(ele) the whole document	1-7

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Information on patent family members

International application No

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