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(54) Title: PROCESS FOR THE PREPARATION OF *TRANS*-CARVEOL

(57) Abstract: A process for the production of *trans*-carveol which process comprises (a) incubating in the presence of D-limonene, a culture medium comprising microbial cells expressing an oxygenase capable of toluene and/or naphthalene and (b) recovering the *trans*-carveol from the culture medium.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 01/13044

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12P7/02 C12P7/26 //(C12P7/02,C12R1:01,C12R1:38),
(C12P7/26,C12R1:01,C12R1:38)

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)
IPC 7 C12P

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ONKEN J. AND BERGER R.G.: "Effects of R-(+)-limonene on submerged cultures of the terpene transforming basidiomycete Pleurotus sapidus" JOURNAL OF BIOTECHNOLOGY, vol. 69, no. 2-3, 15 April 1999 (1999-04-15), pages 163-168, XP004168124 ISSN: 0168-1656 the whole document	1,2,8,9
X	VAN DER WERF M.J. AND DE BONT J.A.M.: "Screening for microorganisms converting limonene into carvone" STUDIES IN ORGANIC CHEMISTRY: NEW FRONTIER IN SCREENING FOR MICROBIAL BIOCATALYSTS, vol. 53, 1998, pages 231-234, XP001002224 page 234	1-5

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

 International Application No
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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.
X	US 5 688 673 A (MICHIGAN STATE UNIV; ORIEL P.J; SAVITHIRY SRINIVASAN; HAE CHOON CHANG) 18 November 1997 (1997-11-18) cited in the application column 2 -column 4 column 7 -column 8; example 3 figure 1 ---	1-3,7-9
A	WO 98 59042 A (WASHINGTON STATE UNIV RES FOUND (US); CROTEAU R.B; LUPIEN S.L; KARP F.) 30 December 1998 (1998-12-30) abstract page 4, line 14-17; figure 2 ---	1-3,7-9
A	VAN DER WERF M.J. AND BOOT A.M.: "Metabolism of carveol and dihydrocarveol in Rhodococcus erythropolis DCL14" MICROBIOLOGY, vol. 146, no. 5, May 2000 (2000-05), pages 1129-1141, XP001002248 page 1132; figure 1 ---	
A	GABRIELIAN K.A. ET AL.: "Biocatalytic transformation of limonene" APPLIED BIOCHEMISTRY AND MICROBIOLOGY, vol. 28, no. 3, 1992, pages 241-245, XP001002251 ---	
A	BUDAVARI S; O'NEIL M.J; SMITH A; HECKELMAN P.E; KINNEARY J.F. EDS.: "The Merck Index: an encyclopedia of chemicals, drugs, and biologicals. Twelfth edition" 1996, MERCK & CO., INC., WHITEHOUSE STATION, NJ XP002169585 compound 5518: Limonene page 938, right-hand column ---	
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T	TECELAO C.S.R. ET AL.: "Development of a reaction system for the selective conversion of (-)-trans-carveol to (-)-carvone with whole cells of Rhodococcus erythropolis DCL14" JOURNAL OF MOLECULAR CATALYSIS B: ENZYMATIC, vol. 11, no. 4-6, 22 January 2001 (2001-01-22), pages 719-724, XP001002232 abstract -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP 01/13044

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