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<p>(51) International Patent Classification <sup>5</sup> : C12N 15/80, 15/53, 9/08 C12N 1/15 // (C12N 1/15 C12R 1:685)</p>	<p>A3</p>	<p>(11) International Publication Number: <b>WO 93/18166</b> (43) International Publication Date: 16 September 1993 (16.09.93)</p>
<p>(21) International Application Number: PCT/US93/02020 (22) International Filing Date: 4 March 1993 (04.03.93) (30) Priority data: 07/846,181 4 March 1992 (04.03.92) US 07/845,989 4 March 1992 (04.03.92) US (71) Applicant: GENENCOR INTERNATIONAL, INC. [US/ US]; 180 Kimball Way, So. San Francisco, CA 94080 (US). (72) Inventors: BERKA, Randy, M. ; 331 West 27th Avenue, San Mateo, CA 94403 (US). FOWLER, Timothy ; 1738 Hull Avenue, Redwood City, CA 94061 (US). REY, Mi- chael, W. ; 137 15th Avenue, San Mateo, CA 94402 (US).</p>		<p>(74) Agent: KRUPEN, Karen, I.; Genencor International, Inc., 180 Kimball Way, So. San Francisco, CA 94080 (US). (81) Designated States: CA, FI, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <b>Published</b> <i>With international search report Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments</i> (88) Date of publication of the international search report: 28 October 1993 (28.10.93)</p>
<p>(54) Title: PRODUCTION OF <i>ASPERGILLUS NIGER</i> CATALASE-R (57) Abstract The invention discloses the application of genetic engineering techniques to create novel strains of <i>A. niger</i> which produce high levels of catalase <i>catR</i> gene product, catalase-R) while generating minimal sodium gluconate waste material. Use of an <i>Aspergillus</i> glucoamylase promoter gene.</p>		

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**INTERNATIONAL SEARCH REPORT**

PCT/US 93/02020

International Application No. ....

<b>I. CLASSIFICATION OF SUBJECT MATTER</b> (If several classification symbols apply, indicate all) <sup>6</sup>			
According to International Patent Classification (IPC) or to both National Classification and IPC			
Int.Cl. 5	C12N15/80;	C12N15/53;	C12N9/08;
	//(C12N1/15,C12R1:685)		C12N1/15

<b>II. FIELDS SEARCHED</b>	
Minimum Documentation Searched <sup>7</sup>	
Classification System	Classification Symbols
Int.Cl. 5	C12N ; C12R
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched <sup>8</sup>	

<b>III. DOCUMENTS CONSIDERED TO BE RELEVANT<sup>9</sup></b>		
Category <sup>10</sup>	Citation of Document, <sup>11</sup> with indication, where appropriate, of the relevant passages <sup>12</sup>	Relevant to Claim No. <sup>13</sup>
X	DATABASE WPIL Section Ch, Week 7506, Derwent Publications Ltd., London, GB; Class D16, AN 75-10203W & SU,A,410 083 (CHEM SCI INST AS KAZAKH) see abstract	12
X	JOURNAL OF BIOCHEMISTRY. vol. 92, no. 5, 1982, TOKYO JP pages 1449 - 1456 KYOKO KIKUCHI-TORII ET AL. 'Properties of Aspergillus niger catalase.' see the whole document	12

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|---|--|

<b>IV. CERTIFICATION</b>	
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report
12 AUGUST 1993	02 -09- 1993
International Searching Authority	Signature of Authorized Officer
EUROPEAN PATENT OFFICE	DELANGHE L.L.M.

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)

Category	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claims No.
X	CHEMICAL ABSTRACTS, vol. 90, no. 3, 15 January 1979, Columbus, Ohio, US; abstract no. 18127q, GRUFT, H. ET AL. 'Properties of a unique catalase isolated from Aspergillus niger.' page 227 ; see abstract & CAN. J. BIOCHEM. vol. 56, no. 9, 1978, pages 916 - 919	12
A	WO,A,8 606 097 (ALLELIX) 23 October 1986 see claims 1,4,5	1

ANNEX TO THE INTERNATIONAL SEARCH REPORT  
ON INTERNATIONAL PATENT APPLICATION NO.:

US 9302020  
SA 71637

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-8606097	23-10-86	AU-B- 606033	31-01-91
		AU-A- 5698686	05-11-86
		EP-A- 0284603	05-10-88
		JP-T- 63501331	26-05-88
		US-A- 5198345	30-03-93
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