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- (71) **Applicant (for all designated States except US):**
DANISCO US INC., GENENCOR DIVISION [US/US];
925 Page Mill Road, Palo Alto, California 94304 (US).

Genencor Division, 925 Page Mill Road, Palo Alto, California 94304 (US). **SHETTY, Jayarama K.** [US/US]; Danisco Us Inc., Genencor Division, 925 Page Mill Road, Palo Alto, California 94304 (US). **VAN SOLINGEN, Pieter** [CZ/NL]; Danisco Us Inc., Genencor Division, 925 Page Mill Road, Palo Alto, Ca 94304 (US).

(74) **Agent:** **HAYNES, JENNIFER A.**; Danisco Us Inc., Genencor Division, 925 Page Mill Road, Palo Alto, California 94304 (US).

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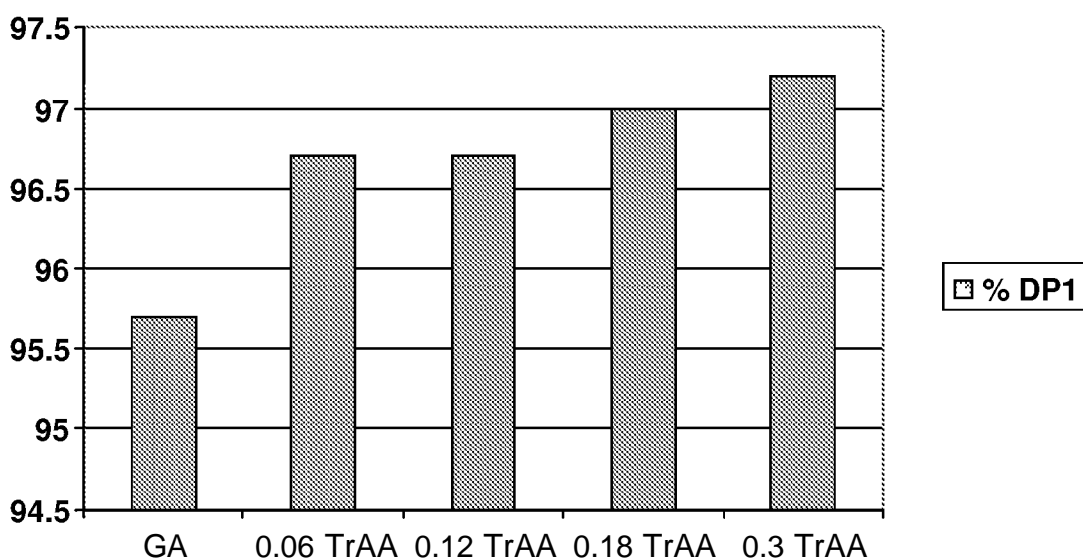
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- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **DUAN, Gang** [SG/CN]; Danisco Us Inc., Genencor Division, 925 Page Mill Road, Palo Alto, California 94304 (US). **QIAN, Kathy** [CN/CN]; Danisco Us Inc., Genencor Division, 925 Page Mill Road, Palo Alto, California 94304 (US). **SCHEFFERS, Martijn** [NL/NL]; Danisco Us Inc.,

(54) **Title:** TRICHODERMA REESE A-AMYLASE ENHANCES SACCHARIFICATION OF CORN STARCH

FIG. 1



(57) **Abstract:** A maltogenic α -amylase from *Trichoderma reesei* (TrAA) and variants thereof in the presence of a glucoamylase are useful in the production of high-glucose syrups from liquefied starch, where the high-glucose syrups produced thereby contain at least about 97% glucose. In this process, TrAA advantageously suppresses the reversion of glucose to malto-oligosaccharides. Expression hosts and encoding nucleic acids useful for producing TrAA and its variants also are provided.

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According to International Patent Classification (IPC) or to both national classification and IPC		
B. REIDS 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, WPI Data, BIOSIS, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2004/091544 A (DIVERSA CORP [US]; CALLEN WALTER [US]; RICHARDSON TOBY [US]; FREY GERH) 28 October 2004 (2004-10-28) claims 55,181,182; sequence 540 -----	1,7,9-20
Y	WO 99/43794 A (NOVONORDISK AS [DK]; CHERRY JOEL ROBERT [US]; SVENDSEN ALLAN [DK]; AND) 2 September 1999 (1999-09-02) page 7 - page 8 , paragraph 1 -----	1,7,9-20
D Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention '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. '&' document member of the same patent family	
Date of the actual completion of the international search 24 September 2008	Date of mailing of the international search report 10/10/2008	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Espen , Josee	

INTERNATIONAL SEARCH REPORT

International application No.
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Box No. 1 Nucleotide and/or amino acid sequences (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - on paper
 - in electronic form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in electronic form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2008/056597
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