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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
— with sequence listing part of description (Rule 5.2(a))

(88) Date of publication of the international search report:

29 November 2012

(54) Title: METHODS FOR ENHANCING THE DEGRADATION OR CONVERSION OF CELLULOSIC MATERIAL

(57) Abstract: The present invention relates to methods for degrading or converting a cellulosic material and for producing a substance from a cellulosic material.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/031521

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12P7/10 C12P19/02 C12P19/12 C12P19/14 C07D303/00
C07K14/37 C12N9/58

ADD.

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)
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 practicable, search terms used)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/074656 A2 (NOVOZYMES INC [US]) 18 August 2005 (2005-08-18)	1,6,10
Y	page 3, paragraph 2-4 page 3, last paragraph - page 5, paragraph 1; example 9; sequences 1,2 claims 41-66	1-14
X	----- WO 2010/138754 A1 (NOVOZYMES INC [US]; GARNER ASHLEY [US]; HARRIS PAUL [US]; QUINLAN JASO) 2 December 2010 (2010-12-02)	1,6,10
Y	page 2, line 23 - page 4, line 3 page 4, line 15 - page 5, line 12 page 9, line 24 - page 10, line 30; example 8; sequences 1,2 claims 1-20 ----- -/--	1-14



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 application or patent 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

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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	WO 2011/005867 A1 (NOVOZYMES INC [US]; NOVOZYMES AS [DK]; DUAN JUNXIN [CN]; TANG LAN [CN]) 13 January 2011 (2011-01-13)	1,6,10
Y	page 2, line 34 - page 3, line 22 page 3, line 32 - page 4, line 26; example 13; sequences 1,2 claims 14-19	1-14
Y	----- DATABASE UniProt [Online] 3 March 2009 (2009-03-03), "Talaromyces stipitatus (strain ATCC 10500 / CBS 375.48 / QM 6759 / OS NRRL 1006) (Penicillium stipitatum). Full=Endoglucanase, putative. Pfam; PF03443; Glyco_hydro_61. .", XP002667281, Database accession no. B8M2G3 abstract	1-14
X,P	----- WO 2012/000892 A1 (DSM IP ASSETS BV [NL]; SCHOONEVELD-BERGMANS MARGOT ELISABETH FRANCOISE) 5 January 2012 (2012-01-05) the whole document	1-14
X,P	----- WO 2012/021394 A1 (NOVOZYMES INC [US]; XU FENG [US]; SWEENEY MATTHEW [US]; QUINLAN JASON) 16 February 2012 (2012-02-16) the whole document -----	1-14

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/031521

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14, 16-20

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/031521

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005074656 A2	18-08-2005	BR PI0507431 A	03-07-2007
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		WO 2012021399 A1	16-02-2012
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		WO 2012021401 A1	16-02-2012
		WO 2012021408 A1	16-02-2012
		WO 2012021410 A1	16-02-2012

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14, 16-20

A method for degrading or converting a cellulosic material, comprising: treating the cellulosic material with an enzyme composition in the presence of a polypeptide having cellulolytic enhancing activity and having at least 60% with SEQ.ID.N.2, and an isolated polypeptide having cellulolytic enhancing activity, comprising or consisting of the mature polypeptide of SEQ.ID.N.2 or having 99% sequence identity to the mature polypeptide of SEQ.ID.N.2.

2. claim: 15

A detergent composition comprising a polypeptide having cellulolytic enhancing activity and having at least 60% with SEQ.ID.N.2
