



(43) International Publication Date
27 December 2012 (27.12.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/176115 A3

(51) International Patent Classification:

A01H 1/00 (2006.01) *C12N 15/29* (2006.01)
A01H 5/00 (2006.01) *C07K 14/415* (2006.01)
C12N 15/82 (2006.01)

(21) International Application Number:

PCT/IB2012/053077

(22) International Filing Date:

19 June 2012 (19.06.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/500176 23 June 2011 (23.06.2011) US
11174374.6 18 July 2011 (18.07.2011) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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:

21 February 2013

(54) Title: PLANTS HAVING ENHANCED YIELD-RELATED TRAITS AND A METHOD FOR MAKING THE SAME

(57) Abstract: The present invention provides a method for enhancing yield-related traits in plants by modulating expression in a plant of a nucleic acid encoding an ELNINI (comprising an ELNINI signature sequence) polypeptide. The present invention also provides plants having modulated expression of a nucleic acid encoding an ELNINI polypeptide, which plants have enhanced yield-related traits relative to control plants. The present invention also provides constructs comprising ELNINI-encoding nucleic acids, useful in performing the methods of the present invention.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2012/053077

A. CLASSIFICATION OF SUBJECT MATTER

see extra sheet

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: C12N; A01H; C07K

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)

CPRSABS; CNKI; CNTXT; DWPI; SIPOABS; EPTXT; USTXT; WOTXT; JPTXT; ELSEVIER; CA and search terms: ELNINI, Os03g30430, transgenic, polypeptide, peptide, protein?, yield, trait?, plant?, biomass etc.

GenBank; EMBL and search sequences: SEQ ID NOS: 1-2, 43-50 etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2009135130A2 (ACADEMIA SINICA) 05 Nov. 2009 (05.11.2009) see the abstract; claims 1-17; tables 1 and 2; page 46, line 1- page 47, line 10; page 48, line 3- page 51, line 31	1-24

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:	“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
“A” document defining the general state of the art which is not considered to be of particular relevance	“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
“E” earlier application or patent but published on or after the international filing date	“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
“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)	“&” document member of the same patent family
“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	

Date of the actual completion of the international search 05 Dec. 2012 (05.12.2012)	Date of mailing of the international search report 20 Dec. 2012 (20.12.2012)
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer HE, Rui Telephone No. (86-10)62411106

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2012/053077

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NCBI Reference Sequence Accession number: NP_001176554.1, 08 Jun. 2010 (08.06.2010) [retrieved on 05.12.2012] Retrieved from NCBI (online): <URL: http://www.ncbi.nlm.nih.gov/protein/NP_001176554.1 > see the whole document	1-24

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International application No.

PCT/IB2012/053077

Continuation of A. CLASSIFICATION OF SUBJECT MATTER

A01H 1/00 (2006.01)i

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C12N 15/82 (2006.01)i

C12N 15/29 (2006.01)i

C07K 14/415 (2006.01)i

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2012/053077

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
WO2009135130 A2	05. 11.2009	WO2009135130 A3	01. 04.2010
		AU2009242530 A1	05. 11.2009
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