

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 February 2012 (09.02.2012)

PCT

(10) International Publication Number
WO 2012/017682 A3

(51) International Patent Classification:

C12Q 1/68 (2006.01) *A01H 5/04* (2006.01)
A01H 1/04 (2006.01)

(21) International Application Number:

PCT/JP2011/004460

(22) International Filing Date:

5 August 2011 (05.08.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2010-177755 6 August 2010 (06.08.2010) JP

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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, 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, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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:

3 May 2012

(54) Title: LEAF-BLADE-LENGTH-RELATED MARKER OF PLANT OF THE GENUS SACCHARUM AND THE USE THEREOF

(57) Abstract: According to the present invention, a novel sugarcane-leaf-blade-length-related marker linked to a sugarcane quantitative trait such as an increase in leaf-blade-length is provided. Such sugarcane-leaf-blade-length-related marker is a sugarcane-leaf-blade-length-related marker, which comprises a continuous nucleic acid region existing in a region sandwiched between the nucleotide sequence shown in SEQ ID NO: 1 and the nucleotide sequence shown in SEQ ID NO: 5 of a sugarcane chromosome.



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INTERNATIONAL SEARCH REPORT

International application No

PCT/JP2011/004460

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12Q1/68 A01H1/04 A01H5/04
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)

C12Q A01H

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HOARAU J-Y ET AL: "Genetic dissection of a modern sugarcane cultivar (Saccharum spp.). II. Detection of QTLs for yield components", THEORETICAL AND APPLIED GENETICS, SPRINGER, BERLIN, DE, vol. 105, no. 6-7, 19 September 2002 (2002-09-19), pages 1027-1037, XP002662392, ISSN: 0040-5752 the whole document ----- -/--	1-6



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 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

31 October 2011

Date of mailing of the international search report

13/03/2012

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/JP2011/004460

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PIPERIDIS NATHALIE ET AL: "Comparative genetics in sugarcane enables structured map enhancement and validation of marker-trait associations", MOLECULAR BREEDING, vol. 21, no. 2, February 2008 (2008-02), pages 233-247, XP002662478, ISSN: 1380-3743 the whole document	1-6
X	----- AITKEN K S ET AL: "Genetic control of yield related stalk traits in sugarcane", THEORETICAL AND APPLIED GENETICS, SPRINGER, BERLIN, DE, vol. 117, no. 7, 22 August 2008 (2008-08-22), pages 1191-1203, XP002662393, ISSN: 0040-5752 the whole document -----	1-6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2011/004460

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.:

1-6(partially)

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-6(partially)

Sugarcane leaf blade length marker comprising SEQ ID NO:1
and use

2-5. claims: 1-6(partially)

Claimed Inventions 2 to 5: each individual SEQ ID NO: 2
through 5 represents a separate and unlinked leaf blade
length alleged invention with its use
