

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference POLTP0101W	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2012/003045	International filing date (day/month/year) 19/12/2012	(Earliest) Priority Date (day/month/year) 19/12/2011
Applicant SZKOLA GLOWNA GOSPODARSTWA WEIJSKEIGO W WARSZAWIE		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c 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. (means)
 - on paper
 - in electronic form
 - b. (time)
 - in the international application as filed
 - together with the international application in electronic form
 - 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:

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. C12N15/82 A01H5/00 C07K14/415 C12N9/16 C12N9/78
 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)
 C12N 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)
 EPO-Internal, 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 2009/114733 A2 (CERES INC [US]; ZHOU FASONG [US]; PICCOLO KERSTIN [US]; SOSA JULISSA []) 17 September 2009 (2009-09-17) abstract paragraph [0026] paragraph [0029] paragraph [0093] paragraph [0111] paragraph [0158] paragraph [0213] - paragraph [0224] example 8 sequences 315, 316, 354, 355 ----- -/--	1-11, 13-20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 8 July 2013	Date of mailing of the international search report 22/07/2013
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Mundel, Christophe

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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	<p>HUANG XIAOZHEN ET AL: "The Arabidopsis LSD1 gene plays an important role in the regulation of low temperature-dependent cell death", NEW PHYTOLOGIST, vol. 187, no. 2, 2010, pages 301-312, XP002699917, ISSN: 0028-646X abstract page 302, left-hand column, line 30 - line 39 page 308, left-hand column, line 4 - line 7 page 308, right-hand column, line 14 - page 309, left-hand column, line 15 page 310, right-hand column, line 30 - line 45</p> <p style="text-align: center;">-----</p>	1-11, 13-20
X	<p>P. MUHLENBOCK ET AL: "Lysigenous Aerenchyma Formation in Arabidopsis Is Controlled by LESION SIMULATING DISEASE1", THE PLANT CELL ONLINE, vol. 19, no. 11, 16 November 2007 (2007-11-16), pages 3819-3830, XP055069037, ISSN: 1040-4651, DOI: 10.1105/tpc.106.048843 cited in the application abstract page 3820, left-hand column, line 56 - line 58 page 3826, right-hand column, line 9 - line 15 page 3827, left-hand column, line 12 - line 23</p> <p style="text-align: center;">-----</p>	1-11, 13-20
Y	<p>MUHLENBOCK PER ET AL: "Chloroplast Signaling and LESION SIMULATING DISEASE1 Regulate Crosstalk between Light Acclimation and Immunity in Arabidopsis", PLANT CELL, vol. 20, no. 9, September 2008 (2008-09), pages 2339-2356, XP002699918, ISSN: 1040-4651 cited in the application abstract page 2340, left-hand column, line 19 - line 34 page 2352, left-hand column, line 49 - line 54</p> <p style="text-align: center;">-----</p>	1-11, 13-20

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Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009114733 A2	17-09-2009	US 2011119785 A1 WO 2009114733 A2	19-05-2011 17-09-2009
