

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (<i>day/month/year</i>)	(Earliest) Priority Date (<i>day/month/year</i>)	
PCT/IT2015/000298	9 December 2015 (09-12-2015)	9 December 2014 (09-12-2014)	
Applicant			
LAVANGA VITO			

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 4 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 43.6*bis*(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:

DEVICE FOR PRODUCING HYDROGEN

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. 1
 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

INTERNATIONAL SEARCH REPORT

International application No
PCT/IT2015/000298

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C25B1/10 C25B9/00 H01M8/16 H01M8/1018
 ADD. C02F1/461 H01M8/00 H01M8/10

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)
 C25B C02F H01M

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 939 968 A1 (EBARA CORP [JP]) 2 July 2008 (2008-07-02)	1,2,5-11
Y	claim 1 figures 2-4 paragraphs [0034], [0036], [0106], [0107], [0111] - [0114]	3,4
X	US 2013/256149 A1 (POPAT SUDEEP [US] ET AL) 3 October 2013 (2013-10-03)	1,2,5-11
Y	claims 1,3,8-10,14 figures 6,8 paragraphs [0036] - [0038], [0046]	3,4
Y	US 2010/190039 A1 (HAMELERS HUBERTUS VICTOR MARIE [NL] ET AL) 29 July 2010 (2010-07-29) claims 21,23-26,31,36 paragraphs [0026], [0028]	1-11
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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 27 April 2016	Date of mailing of the international search report 06/05/2016
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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 Perednis, Dainius
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INTERNATIONAL SEARCH REPORT

International application No
PCT/IT2015/000298

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2008/213632 A1 (NOGUERA DANIEL R [US] ET AL) 4 September 2008 (2008-09-04) claims 1,4 figures 1-3 -----	1-11
Y	EP 1 742 288 A1 (UNIV GENT [BE]) 10 January 2007 (2007-01-10) claims 1,4,10,12,21,23 figure 1 example 1 -----	1-11
Y	US 2012/082868 A1 (HUANG YUELONG [US] ET AL) 5 April 2012 (2012-04-05) claims 1-3,8-11,20 paragraphs [0027] - [0030] -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IT2015/000298

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1939968	A1	02-07-2008	EP 1939968 A1 02-07-2008
			US 2009142627 A1 04-06-2009
			WO 2007037261 A1 05-04-2007

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			EP 2137782 A1 30-12-2009
			NL 2000598 C2 20-10-2008
			US 2010190039 A1 29-07-2010
			WO 2008127109 A1 23-10-2008

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			WO 2008112371 A2 18-09-2008

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			CA 2614204 A1 18-01-2007
			EP 1742288 A1 10-01-2007
			EP 1902489 A2 26-03-2008
			US 2008220292 A1 11-09-2008
			WO 2007006107 A2 18-01-2007

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