PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
	ACTION as	well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)
PCT/IT2016/000090	11 April 2016 (11-04-2016)	9 April 2015 (09-04-2015)
Applicant		-
LAVANGA VITO		
This international search report has been paccording to Article 18. A copy is being tra		uthority and is transmitted to the applicant
This international search report consists o	f a total of5 sheets.	
	a copy of each prior art document cited in	this report.
X the international a	nternational search was carried out on the pplication in the language in which it was international application into	filed , which is the language
	report has been established taking into according to this Authority under Rule 91 (Rule 43.6 <i>b</i>	count the rectification of an obvious mistake
c. With regard to any nucle c	ntide and/or amino acid sequence disclo	sed in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box No. II)	
3. Unity of invention is lac	king (see Box No III)	
4. With regard to the title ,		
X the text is approved as sul	bmitted by the applicant	
the text has been establish	hed by this Authority to read as follows:	
5. With regard to the abstract ,		
the text is approved as sui	bmitted by the applicant	
		rity as it appears in Box No. IV. The applicant earch report, submit comments to this Authority
6. With regard to the drawings ,		
a. the figure of the drawings to be po	ublished with the abstract is Figure No	1
as suggested by t	• •	_
	s Authority, because the applicant failed to	
	s Authority, because this figure better char e published with the abstract	acterizes the invention

PCT/IT2016/000 090

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

This invention refers to a method and a device for desalinating sea water, brackish water or from industrial processes. The device is suitable to use renewable energy sources such as solar or geothermal energy.

The device is of the type that includes a tank (1) for the containment of the water to desalinate, in which there are heating means fitted to cause the evaporation of said water to desalinate, cooling means fitted to favour the subsequent condensation of the steam and means fitted to the collection of the condensed water and it is characterized in that:

said tank (1), fitted to contain said water to desalinate, is filled up to a certain level (2);

said heating means, for evaporating said water include a first heat exchanger (3), immersed in the water to desalinate and positioned nearby said level (2); said cooling means (5a), fitted to cause the condensation of the steam, are in heat exchange connection with the heating means (5b), immersed in said water to desalinate, said heat exchange simultaneously causing:

- a) the reduction of the temperature of said means (5a), therefore the suitable conditions for the condensation of the steam;
- b) the increase in temperature, into the depths, of said water to desalinate.

International application No PCT/IT2016/000090

A. CLASSIFICATION OF SUBJECT MATTER INV. B01D5/00 B01D1/00 B01D1/30 C02F1/14 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)

B01D C02F

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

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2007/011201 A1 (ZONNEWATER B V [NL]; DE KONING JAN CORNELIS [NL]) 25 January 2007 (2007-01-25) abstract; figures page 4, line 21 - page 5, line 10	1-7,9-15
A	WO 2011/004416 A1 (ESAE S R L [IT]; LAVANGA VITO [IT]; SPARACINO ANTONIO CESARE [IT]) 13 January 2011 (2011-01-13) abstract; figures page 9, paragraph 35 page 10, paragraphs 36,37 page 11, paragraphs 44,45 page 12, paragraph 47 page 17, paragraph 66 page 27, paragraph 100	1-5

X Further documents are listed in the continuation of Box C.	X See patent family annex.
* Special categories of cited documents :	"T" later document published after the international filing date or priority
"A" document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive
"L" document which may throw doubts on priority claim(s) or which is	step when the document is taken alone
cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is
"O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
2 September 2016	12/09/2016
Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Lapeyrère, Jean

4

International application No
PCT/IT2016/000090

C(Continua		I
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2010/034043 A1 (GIG KARASEK GMBH [AT]; KARASEK ANDREAS [AT]; BETHGE DANIEL [AT]) 1 April 2010 (2010-04-01) abstract; figures columns 5,6	1-5
1	abstract; figures	1-5

Information on patent family members

International application No
PCT/IT2016/000090

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007011201 A	1 25-01-2007	EP 1910228 A1 US 2009308810 A1 WO 2007011201 A1	16-04-2008 17-12-2009 25-01-2007
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FR 2853895 A	1 22-10-2004	NONE	