

INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2018/070556

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)

F01K, F22B, F22G

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)

EPODOC, INVENES

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0593999 A1 (BAYER) 27/04/1994; column 1, line 27 - column 6, line 36; figure 1.	1
Y	US 2017/0122132 A1 (CHALABI et al.) 04/05/2017; paragraphs [0012] - [0071]; figure 1.	1
Y	ES 2010890 A6 (SENER, INGENIERÍA Y SISTEMAS) 01/12/1989; the whole document.	1
Y	US 2017/0058710 A1 (HIRSON et al.) 02/03/2017; paragraphs [0027] - [0048]; figure 1.	1
Y	EP 1355109 A1 (SWE STROM UND FERNWÄRME) 22/10/2003; the whole document.	1

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance.</p> <p>"E" earlier document 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 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
14/01/2019

Date of mailing of the international search report
(15/01/2019)

Name and mailing address of the ISA/

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C (continuation).		
DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97/46830 A1 (L. & C. STEINMÜLLER et al.) 11/12/1997; page 1, line 1 - page 3, line 22; figure 1.	1

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International application No.

Information on patent family members

PCT/ES2018/070556

Patent document cited in the search report	Publication date	Patent family member(s)	Publication date
EP 0593999 A1	27.04.1994	JPH06221110 A DE4235464 A1	09.08.1994 28.04.1994
----- US 2017/0122132 A1	----- 04.05.2017	EP3152411 A1 WO2015185915 A1 GB2526819 A GB2526819 B	----- 12.04.2017 10.12.2015 09.12.2015 04.07.2018
----- ES 2010890 A6	----- 01.12.1989	----- NONE	-----
----- US 2017/0058710 A1	----- 02.03.2017	BR112012018086 A2 KR20170105121 A HUE032469T T2 PL2848777T T3 PT2848777T T ES2608388T T3 HK1207896 A1 US2015292736 A1 US9874113 B2 EP2848777 A1 EP2848777 B1 KR20130115084 A US2013200624 A1 US9500362 B2 KR20130024879 A KR101775608B B1 US2011265698 A1 WO2011091327 A1 EP2526339 A1 EP2526339 A4 EP2574199 A2 WO2011140080 A2 WO2011140080 A3	----- 20.06.2017 18.09.2017 28.09.2017 31.07.2017 28.12.2016 10.04.2017 12.02.2016 15.10.2015 23.01.2018 18.03.2015 21.09.2016 21.10.2013 08.08.2013 22.11.2016 08.03.2013 19.09.2017 03.11.2011 28.07.2011 28.11.2012 11.03.2015 03.04.2013 10.11.2011 17.01.2013
----- EP 1355109 A1	----- 22.10.2003	DE10221469 A1 AT315765T T	----- 04.12.2003 15.02.2006
----- WO 97/46830 A1	----- 11.12.1997	DE19622115 C1	----- 11.09.1997
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CLASSIFICATION OF SUBJECT MATTER

F01K3/24 (2006.01)

F01K23/10 (2006.01)

F22B1/18 (2006.01)

F22B31/04 (2006.01)

F22G1/16 (2006.01)