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HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
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(54) Title: WAVE POWER CONVERTER

(57) Abstract: Wave powered pumps have proven themselves to be a cost effective means of delivering a liquid to a hydroelectric plant on shore, the use of brine or a dense liquid (denser than sea water) as a gravity fuel can make use of a wave pump as the brine can be made to work in a closed cycle using the wave energy to change its potential energy offering the same advantages as an on-shore hydroelectric plant which uses wave power but with much greater height potential.



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INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2013/000171

A. CLASSIFICATION OF SUBJECT MATTER

INV. F03B13/18

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)

F03B F03D F03G

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	GB 1 447 758 A (BICHARD J R) 2 September 1976 (1976-09-02) page 1, lines 12-31 figures 1-5	1,8
X	----- WO 99/13238 A1 (REGO ESPINOZA ISMAEL [MX]; REGO GARCIA DE ALBA LUIS FELIP [MX]) 18 March 1999 (1999-03-18)	1-6,9, 10, 12-16,18
Y	abstract figures 1-3	7,11,17
X	----- GB 2 473 223 A (DARTMOUTH WAVE ENERGY LTD [GB]) 9 March 2011 (2011-03-09) abstract figures 1-7	1
	----- -/-	



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

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

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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.
Y	GB 2 383 978 A (MICHAELIS DOMINIC [FR]) 16 July 2003 (2003-07-16) abstract claims 1-16 figures 1-7 -----	7,11,17

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2013/000171

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.:

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: 8(completely); 1(partially)

Submerged, suspended rotary bladed system

2. claims: 2-7, 9-18(completely); 1(partially)

Submerged piston pump

INTERNATIONAL SEARCH REPORT

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
GB 1447758	A	02-09-1976	NONE
WO 9913238	A1	18-03-1999	AR 016901 A1 01-08-2001
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GB 2383978	A	16-07-2003	NONE