

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 195732WO	<b>FOR FURTHER ACTION</b>	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. <b>PCT/NZ2017/050008</b>	International filing date ( <i>day/month/year</i> ) 27 January 2017	(Earliest) Priority Date ( <i>day/month/year</i> ) 29 January 2016
Applicant BLACK, Kerry Peter		
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 <b>4</b> sheets. <input type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.		
<p>1. <b>Basis of the report</b></p> <p>a. With regard to the <b>language</b>, the international search was carried out on the basis of:</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> The international application in the language in which it was filed.</p> <p style="padding-left: 20px;"><input type="checkbox"/> 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)).</p> <p>b. <input type="checkbox"/> This international search report has been established taking into account the <b>rectification of an obvious mistake</b> authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).</p> <p>c. <input type="checkbox"/> With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, see Box No. I.</p> <p>2. <input type="checkbox"/> <b>Certain claims were found unsearchable</b> (See Box No. II).</p> <p>3. <input type="checkbox"/> <b>Unity of invention is lacking</b> (See Box No. III).</p> <p>4. With regard to the <b>title</b>,</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p> <p style="padding-left: 20px;"><input type="checkbox"/> the text has been established by this Authority to read as follows:</p> <p>5. With regard to the <b>abstract</b>,</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p> <p style="padding-left: 20px;"><input type="checkbox"/> 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.</p> <p>6. With regard to the <b>drawings</b>,</p> <p>a. the figure of the <b>drawings</b> to be published with the abstract is Figure No. <b>3</b></p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> as suggested by the applicant.</p> <p style="padding-left: 20px;"><input type="checkbox"/> as selected by this Authority, because the applicant failed to suggest a figure.</p> <p style="padding-left: 20px;"><input type="checkbox"/> as selected by this Authority, because this figure better characterizes the invention.</p> <p>b. <input type="checkbox"/> none of the figures is to be published with the abstract.</p>		

## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/NZ2017/050008**

## A. CLASSIFICATION OF SUBJECT MATTER

**E02B 3/04 (2006.01)**

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)

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)

PATENW: /IC/CC OR E02B3/04/low, E02B3/046, A01K61/70/low &amp; Keywords (compartment, valve, pour, frame, float) and similar terms and/or combinations

Google Patent &amp; Keywords: (Artificial, reef, barrier, compartment, inlet, rib, float) and similar terms and/or combinations

Applicant/Inventor searched using both internal (provided by IP Australia) and external (Google Patent, Espacenet, AUSPAT) databases: Black, Kerry Peter; Artificial surf reefs limited

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Documents are listed in the continuation of Box C		

 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	"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	
"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 step when the document is taken alone	
"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)	"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	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 31 May 2017	Date of mailing of the international search report 31 May 2017
<b>Name and mailing address of the ISA/AU</b>  AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Email address: pct@ipaaustralia.gov.au	<b>Authorised officer</b>  Aditya Angadi AUSTRALIAN PATENT OFFICE (ISO 9001 Quality Certified Service) Telephone No. 0399359624

INTERNATIONAL SEARCH REPORT		International application No.
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		<b>PCT/NZ2017/050008</b>
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/094552 A1 (DMS V.O.F.) 14 September 2006 figures 1-13, abstract, page 1 lines 1-7, page 4 lines 21-35, page 6 lines 1-10, page 7 lines 1-25, page 8 lines 27-29	1-22
X	US 5040919 A (HENRIX) 20 August 1991 figures 1-5, abstract, column 2 line 60 – column 3 line 21, column 3 lines 55-63, column 4 lines 10-17	1-22
X	AU 2012258446 A1 (KAYE RATCLIFFE) 20 June 2013 figures 1-6, abstract, page 3 lines 28-33, page 4 line 1 – page 5 line 38	1-22
X	US 2003/0077122 A1 (CARNAHAN et al.) 24 April 2003 figures 1-7, abstract, paragraphs [0007], [0018], [0024], [0087], [0125]	1-5
X	US 2007/0154264 A1 (BARUH) 05 July 2007 figures 1-9, abstract, paragraphs [0030], [0050]	1-5
X	US 2015/0110558 A1 (MCKENZIE) 23 April 2015 figures 1-33, abstract, paragraphs [0073], [0129]-[0130]	1-22

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/NZ2017/050008**

This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

<b>Patent Document/s Cited in Search Report</b>		<b>Patent Family Member/s</b>	
<b>Publication Number</b>	<b>Publication Date</b>	<b>Publication Number</b>	<b>Publication Date</b>
WO 2006/094552 A1	14 September 2006	WO 2006094552 A1	14 Sep 2006
US 5040919 A	20 August 1991	US 5040919 A	20 Aug 1991
AU 2012258446 A1	20 June 2013	AU 2012258446 A1	20 Jun 2013
US 2003/0077122 A1	24 April 2003	US 2003077122 A1	24 Apr 2003
		US 2007036612 A1	15 Feb 2007
		US 7497643 B2	03 Mar 2009
		US 2001014256 A1	16 Aug 2001
US 2007/0154264 A1	05 July 2007	US 2007154264 A1	05 Jul 2007
		US 7491016 B2	17 Feb 2009
		WO 2007079066 A2	12 Jul 2007
US 2015/0110558 A1	23 April 2015	US 2015110558 A1	23 Apr 2015
		CA 2872321 A1	07 Nov 2013
		WO 2013163763 A1	07 Nov 2013

**End of Annex**

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

Form PCT/ISA/210 (Family Annex)(July 2009)