The use of a pressure compensation system and composite polymer materials results in a new type of outboard sensor assembly (156), of the type used to monitor the status and location of towed array systems (156) from boats (1-10). The inventive system is lower in cost, easier to manufacture in quantity, lighter weight, less likely to leak, and with a lower failure rate than conventional systems.
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
3 April 2008
A. CLASSIFICATION OF SUBJECT MATTER

IPC: GOIV 1/38 (2006 01)

USPC: 367/130,106.15,167.1 72.18

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)

U S: 367/1 30, 106, 15, 167, 172, 18

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 database and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate</th>
<th>Relevant to claim No</th>
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<tbody>
<tr>
<td>A</td>
<td>US6,046,963 (Glenning) 04 APRIL 2000 (04 04 2000) 1-18</td>
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<td>A</td>
<td>US5,909,408 (Warman, et al.) 01 JUNE 1999 (01 06 1999) 1-18</td>
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<td>A</td>
<td>US5,452,266 (Carter) 19 SEPTEMBER 1995 (19 09 1995) 1-18</td>
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<tr>
<td>A</td>
<td>US4,298,964 (Wamshus, Jr.) 03 NOVEMBER 1981 (03 11 1981) 1-18</td>
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</table>

Further documents are listed in the continuation of Box C. See patent family annex

* Special categories are listed in the continuation of Box C.

A: document defining the general state of the art which is not considered to be of particular relevance

E: earlier application or patent published on or after the international filing date

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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

Z: document member of the same patent family

Date of the actual completion of the international search: 24 January 2008 (24 01 2008)

Date of mailing of the international search report: 18 April 2008

A: Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner of Patents

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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