**Title**: ACOUSTIC ARRAY FOR INSTALLATION ON A BOAT

**Abstract**: The array (14) is made up as a ladder structure in which the airguns (30) are disposed horizontally between vertical support and umbilical lines (27 & 29), with their discharge ports in a laterally offset relationship to minimize undesirable interactions between the acoustic transmissions released into the water by sources and to maximize the acoustic output of the array for a given length. The stowed array may be substantially enclosed by the hull of the boat. The stowage structure is defined by a track on the top of the deck. Umbilicals attached to the array are translated, as by being wound on a drum and unwound therefrom, to deploy or retrieve the array over the stern of the boat. The umbilicals provide power (compressed air to the airguns and control signals for timed actuation of the airguns).
Published:
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For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.

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US CL : 367/144, 153, 154
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.: 367/144, 153, 154

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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</tr>
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<td>US. 5841733A (BOUYOCOS ET AL.) 24 NOVEMBER 1998 (24.11.1998)</td>
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<td>A</td>
<td>US. 5995452A (BOUYOCOS) 30 NOVEMBER 1999 (30.11.1999)</td>
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Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search: 01 May 2002 (01.05.2002)

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