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HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
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[Continued on next page]

(54) Title: VORTEX-INDUCED VIBRATION (VIV) SUPPRESSION OF RISER ARRAYS

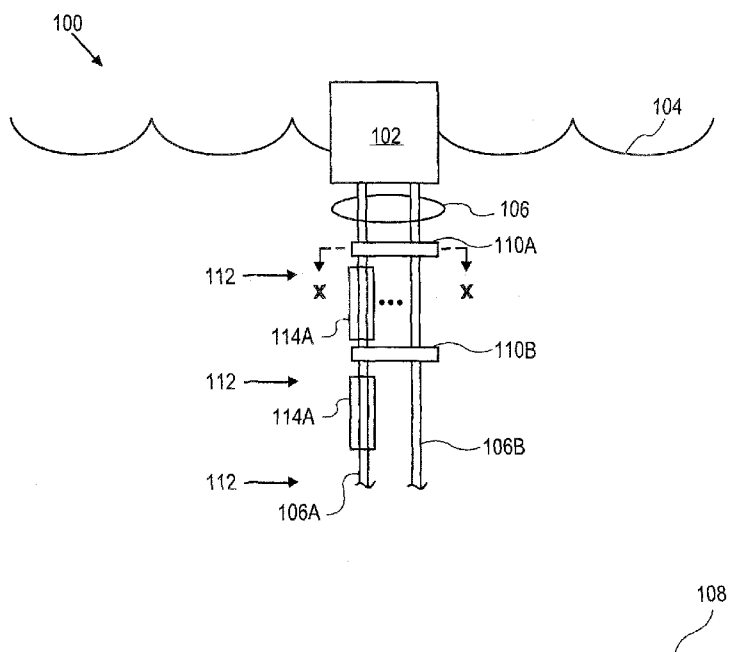


FIG. 1

(57) Abstract: A system comprising an array of structures in a flowing fluid environment, the array comprising at least 3 structures; and vortex induced vibration suppression devices on at least 2 of the structures.



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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)

F15D 1/10; B63B 35/44; E02D 27/14; F16L 1/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords:array, vortex, suspension

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6179524 B1 (ALLEN; DONALD WAYNE et al.) 30 January 2001 See abstract, Fig. 1	1-3,6
A	See all claims	4,5,7-20
Y	US 2008-0044235 A1 (EDWARD E. HORTON et al.) 21 February 2008 See abstract, Fig. 1	1-3,6
A	See all claims	4,5,7-20
A	JP 02-784637 B2 (-) 29 May 1998 See abstract	1-20
A	US 6561734 B1 (ALLEN; DONALD WAYNE et al.) 13 May 2003 See abstract	1-20



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2008-0044235 A1	21.02.2008	CN 101506031 A	12.08.2009
		CN 101506031 A	12.08.2009
		US 7413384 B2	19.08.2008
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US 6561734 B1	13.05.2003	None	