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(54) **Title:** SYSTEM AND METHOD FOR CONVERTING FLUID MOTION INTO ELECTRICAL POWER

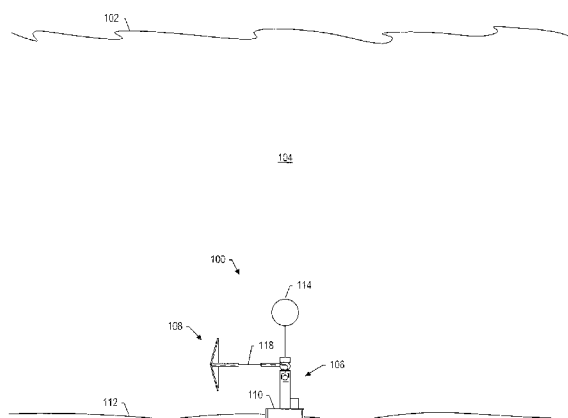


FIG. 1a

(57) **Abstract:** A system is provided for converting fluid motion into electrical power, with the system being deployable in a body of fluid. The system includes a support structure (106) and a movable structure (108, 300, 400) connected to the support structure (106). The support structure (106) includes a generator assembly (120, 200) configured to convert mechanical energy to electrical energy and provide electric power from the electrical energy. The movable structure (108, 300, 400) has three or more degrees of freedom, and is configured to generate mechanical energy for conversion by the generator assembly (120, 200) during a power generation phase of a power cycle in which the fluid motion acts on the movable structure (108, 300, 400). The movable structure (108, 300, 400) has a first configuration during the power generation phase and a second, different configuration during a recovery phase of the power cycle, with the movable structure (108, 300, 400) in the first configuration having a greater surface area normal to the flow of fluid.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F03B

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	US 2010/276934 A1 (FRANCIS JOSEPH ALLEN [US]) 4 November 2010 (2010-11-04) paragraphs [0002], [0011], [0013], [0024] - [0027], [0036], [0037], [0038] figure 1 -----	1-5,7-13
X	DE 29 05 157 A1 (SCHATTA MARTIN [DE]) 21 August 1980 (1980-08-21) page 6 - page 7 claim 1 figures 1-4 -----	1,2,4,5, 7-13
X	WO 2009/060154 A2 (SDMI [FR]; GRANDPERRET GILLES [FR]; GRANDPERRET ARNAUD [FR]) 14 May 2009 (2009-05-14) page 1, line 22 - page 2, line 11 page 4, line 31 - page 5, line 20 figures 2,4,5,6 ----- -/-	1,2,4-15



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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.
X	US 2002/033019 A1 (MIZZI JOHN V [US]) 21 March 2002 (2002-03-21) paragraphs [0007], [0008], [0025], [0031] figure 1 -----	1,2,4,5, 7-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

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