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[Continued on nextpage]

(54) Title: CROSS-FLOW FLUIDIC OSCILLATORS FOR USE WITH A SUBTERRANEAN WELL

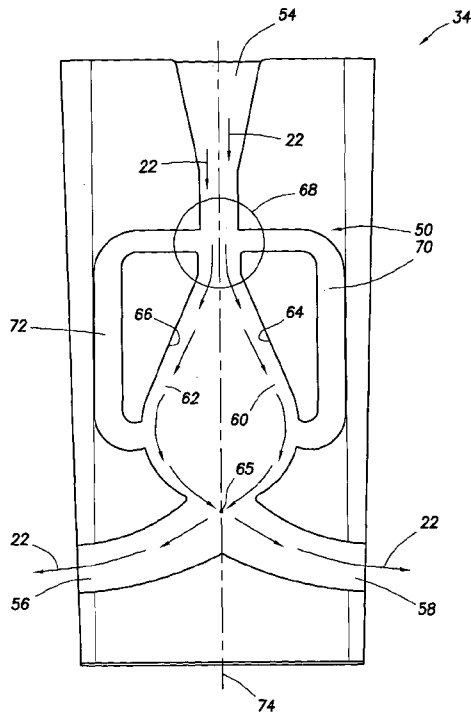


FIG. 1A

(57) Abstract: A fluidic oscillator (50) can include an input, first and second outputs on opposite sides of a longitudinal axis of the oscillator, whereby a majority of fluid which flows through the oscillator exits the oscillator alternately via the first and second outputs, first and second paths from the input to the respective first and second outputs, and wherein the first and second paths cross each other between the input and the respective first and second outputs. Another oscillator can include an input, first and second outputs, whereby a majority of fluid flowing through the fluidic oscillator exits the oscillator alternately via the first and second outputs, first and second paths from the input to the respective first and second outputs, and a feedback path which intersects the first path, whereby reduced pressure in the feedback (70, 72) path influences the majority of fluid to flow via the second path.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
E21B

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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 247 861 A (PETER BAUER) 26 April 1966 (1966-04-26) column 2, line 29 - column 3, line 74; figure 1 -----	1-23
X	wo 2005/093264 AI (HALLIBURTON ENERGY SERV INC [US]; SCHULTZ ROGER L [US]; MICHAEL ROBERT) 6 October 2005 (2005-10-06) page 6, line 20 - page 10, line 26; figure 3 -----	1-23
X	US 2009/178801 AI (NGUYEN PHILIP D [US] ET AL) 16 July 2009 (2009-07-16) figure 4 -----	1-23



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See patent family annex.

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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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Wo 2005093264	A 1	06-10--2005	US 20052 14147 A 1 29-09-2005
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			wo 2009090372 A 1 23-07 -2009