

Title (en)
OSCILLATOR FOR GENERATING TWO OR MORE PULSATING FLUID FLOWS FROM A CONSTANT FLUID FLOW AND A METHOD OF GENERATING FLUID BUBBLES IN A LIQUID

Title (de)
OSZILLATOR ZUR ERZEUGUNG VON ZWEI ODER MEHR PULSIERENDEN FLUIDSTRÖMEN AUS EINEM KONSTANTEN FLUIDSTROM UND VERFAHREN ZUR ERZEUGUNG VON FLUIDBLASEN IN EINER FLÜSSIGKEIT

Title (fr)
OSCILLATEUR POUR GÉNÉRER AU MOINS DEUX ÉCOULEMENTS DE FLUIDE PULSÉS À PARTIR D'UN ÉCOULEMENT DE FLUIDE CONSTANT ET PROCÉDÉ DE GÉNÉRATION DE BULLES DE FLUIDE DANS UN LIQUIDE

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Application
EP 20170173 A 20200417

Priority
EP 20170173 A 20200417

Abstract (en)
Oscillator (1b, 1c) for generating two or more pulsating fluid flows from a constant fluid flow, whereby the oscillator (1b, 1c) comprises a first fluid inlet (6) for receiving a fluid flow and a first fluid outlet (2) and a second fluid outlet (2) for each outputting a said pulsating fluid flow, whereby the oscillator (1b, 1c) comprises a bistable fluidic amplifier (6,7,8,9) for amplifying a control signal, whereby the fluidic amplifier (6,7,8,9) is placed between the first fluid inlet (6) and the fluid outlets (2,3), whereby the oscillator (1b, 1c) comprises a piezo-electric actuator (15) for generating said control signal. Also a method of generating fluid bubbles (40) in a liquid, using such an oscillator (1b, 1c) according to any of the previous claims is used, whereby a pulsating fluid flow from the fluid outlets (2,3) is used to generate fluid bubbles (40) in the liquid.

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
TESAR, VACLAV.: "Taxonomic trees of fluidic oscillators", EPJ WEB OF CONFERENCES, vol. 143, 2017, pages 02128

Citation (search report)
• [XYI] WO 2013061276 A1 20130502 - UNIV RAMOT [IL]
• [Y] GB 2443396 A 20080507 - UNIV SHEFFIELD [GB]
• [A] WO 2007150028 A2 20071227 - GUNDERBOOM INC [US]

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BA ME

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