

Title (en)

Unit of a generator of gas bubbles in a liquid

Title (de)

Einheit eines Generators aus Gasblasen in einer Flüssigkeit

Title (fr)

Unité de générateur de bulles de gaz dans un liquide

Publication

EP 2735362 A1 20140528 (EN)

Application

EP 12199083 A 20121221

Priority

CZ 2012822 A 20121122

Abstract (en)

Subject of the invention is a unit generating small gas bubbles in liquid, based on the already known method of the generated bubbles being small if they are exposed, during their formation, to periodic oscillation. In the present embodiment, the aerator generating the bubbles is integrated in a unit with the no-moving-part oscillator. This is a previously unknown layout using the time delay of flow spin-up and spin-down to generate low frequency oscillation which were found to intensify the small bubble generation.

IPC 8 full level

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CPC (source: EP)

B01F 23/23121 (2022.01); **B01F 35/71755** (2022.01); **B03D 1/242** (2013.01)

Citation (applicant)

- EP 2081666 A1 20090729 - UNIV SHEFFIELD [GB]
- TESAR V.; HUNG C.-H.; ZIMMERMAN W.: "No-Moving-Part Hybrid-Synthetic Jet Actuator", SENSORS AND ACTUATORS A, vol. 125, 2006, pages 159 - 169, XP025081610, DOI: doi:10.1016/j.sna.2005.06.022

Citation (search report)

- [AD] EP 2081666 A1 20090729 - UNIV SHEFFIELD [GB]
- [A] US 2003127142 A1 20030710 - STOUFFER RONALD D [US]
- [A] US 5893383 A 19990413 - FACTEAU DAVID M [US]
- [A] US 5190099 A 19930302 - MON GEORGE [US]
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