

Title (en)

LOW ENERGY MICROBUBBLE GENERATION BY SUPPLYING PULSATING GAS TO A POROUS DIFFUSER

Title (de)

ENERGIEARME MIKROBLÄSCHENERZEUGUNG DURCH ZUFÜHRUNG VON PULSIERENDEM GAS ZU EINEM PORÖSEN DIFFUSOR

Title (fr)

PRODUCTION DE MICRO-BULLES À FAIBLE ÉNERGIE PAR ENVOI DE GAZ À IMPULSION À UN DIFFUSEUR POREUX

Publication

EP 3188842 A1 20170712 (EN)

Application

EP 15731155 A 20150529

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Abstract (en)

[origin: WO2016018504A1] A bubble generation system includes a gaseous pressure source supplying a gas flow (614) and a wave inducer (618a, 618b) including a first inlet in fluid communication with the gaseous pressure source (614) to receive the gas flow and a first outlet. The wave inducer transitions the gas flow into a pulsating acoustic wave that exits the wave inducer through the outlet. The bubble generation system also includes a diffuser (622) fluidly coupled to the outlet of the wave inducer (618a, 618b). The diffuser (622) is configured to produce bubbles from the gaseous pressure source. The bubble generation system further includes a vent passageway (602) fluidly coupled between the wave inducer and the diffuser. The vent passageway is configured to be in fluid communication with an ambient environment.

IPC 8 full level

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