

Title (en)

Apparatus and method for a microfluidic mixer and pump

Title (de)

Vorrichtung und Verfahren für einen mikrofluidischen Mischer und Pumpe

Title (fr)

Appareil et procédé pour mélangeur et pompe microfluide

Publication

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Application

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Priority

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Abstract (en)

The present invention relates to an apparatus (100) and a corresponding method for rapid mixing and pumping of fluids which includes a movable and controllable rotating magnetic field (102), a microfluidic channel (104) including a mixing zone (106) and a pumping chamber (108) within the magnetic field (102), and a plurality of magnetic rods (116) within the micro fluidic channel (104) and the magnetic field (102), whereby the rotating magnetic field (102) applies torque to the magnetic rods (116).

IPC 8 full level

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CPC (source: EP)

B01F 33/30 (2022.01); **B01F 33/452** (2022.01); **F04B 19/006** (2013.01)

Citation (applicant)

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