

Title (en)

MICROFABRICATED DEVICE, SYSTEM AND METHOD COMPRISING SUCH DEVICE

Title (de)

MIKROFABRICIERTE VORRICHTUNG, SYSTEM UND VERFAHREN MIT SOLCH EINER VORRICHTUNG

Title (fr)

DISPOSITIF MICROFABRIQUÉ, SYSTÈME ET PROCÉDÉ COMPRENANT UN TEL DISPOSITIF

Publication

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Application

EP 21769358 A 20210820

Priority

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Abstract (en)

[origin: EP3957397A1] The invention pertains to a device comprising an inlet channel, outlet channel, first channel having a hydrodynamic resistance R1, second channel having a hydrodynamic resistance R2, third channel having a hydrodynamic resistance R3, fourth channel having a hydrodynamic resistance R4, intermediate channel having a hydrodynamic resistance R0 and a positioner for positioning an object within the intermediate channel, the positioner preferably comprising a narrowing of the cross section of the intermediate channel; the device further comprising an inlet node, outlet node, first intermediate node and second intermediate node; wherein the inlet channel, second channel and fourth channel are interconnected via the inlet node, the outlet channel, first channel and third channel are interconnected via the outlet node, the first channel, second channel and intermediate channel are interconnected via the first intermediate node and the third channel, fourth channel and intermediate channel are interconnected via the second intermediate node; the device further comprising a first valve arranged at the second channel and configured to be actuated in order to control the flow rate through the second channel. Furthermore, the device comprises a second valve arranged at the fourth channel and configured to be actuated in order to control the flow rate through the fourth channel. The invention further pertains to a system and a method comprising the device according to the invention.

IPC 8 full level

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