

Title (en)

MICROFLUIDIC COMPONENT, IN PARTICULAR A PERISTALTIC MICROPUMP, AND METHOD FOR PRODUCING SAME

Title (de)

MIKROFLUIDISCHES BAUTEIL, INSBESONDERE PERISTALTISCHE MIKROPUMPE, UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

ÉLÉMENT MICROFLUIDIQUE, EN PARTICULIER MICROPOMPE PÉRISTALTIQUE, ET SON PROCÉDÉ DE RÉALISATION

Publication

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Application

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Abstract (en)

[origin: WO2011138070A1] The invention relates to a microfluidic component (1), in particular a peristaltic micropump, at least comprising a layer structure made of a fluidic substrate (2), an actuation substrate (4) and an elastic membrane (3) arranged therebetween, characterised in that on the side adjoining the elastic membrane (3) the fluidic substrate (2) comprises a fluid chamber (5), the actuation substrate (4), at least on the side adjoining the elastic membrane (3), comprises at least two actuation components separated from each other, each of which is arranged at least partially opposite of the fluid chamber (5) and is able to act on the elastic membrane (3), and the actuation components can be actuated independently of each other, optionally by means of one or more actuators. The invention further relates to a method for producing a microfluidic component (1) and to the use thereof in a lab-on-chip system.

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