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(54) **MICROFLUIDIC STRUCTURE HAVING RECESSES**

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See application file for complete search history.

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(57) **ABSTRACT**

The invention relates to a microfluidic structure (1), comprising at least one cavity (10) having at least one inlet opening (11) and at least one outlet opening (12), wherein the cavity (10) can be filled with a liquid or a liquid can flow through the cavity and at least one element (13) is provided inside the cavity (10), which element stops the flow of the liquid at least temporarily and/or diverts the flow of the liquid at least in some regions within the cavity (10).

According to the invention, the at least one element (13) is formed by a recess (13) introduced into a wall of the cavity (10), which recess (13) has at least one first region (14) at which the liquid stops at least temporarily and/or is diverted at least in some regions and at least one second region (15) at which the liquid preferably flows into the recess (13).

Such a microfluidic structure makes it possible to fill the cavity (10) without air inclusions. Thereby, the useful volume of the cavity (10) is not limited, and the production costs of a microfluidic component (2) having such a microfluidic structure (1) can be kept low.

8 Claims, 6 Drawing Sheets

