

Title (en)
STRUCTURAL UNITS THAT DEFINE FLUIDIC FUNCTIONS

Title (de)
FLUIDISCHE FUNKTIONEN DEFINIERENDE KONSTRUKTIONSEINHEITEN

Title (fr)
UNITES STRUCTURELLES DEFINISSANT DES FONCTIONS FLUIDIQUES

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Abstract (en)
[origin: WO02074438A2] A microfluidic device that comprises several microchannel structures in which there are an inlet port, an outlet port and therebetween a substructure comprising a fluidic function. The device has an axis of symmetry around which the microchannel structures are arranged as two or more concentric annular zones. for an inlet port and an outlet port of the same microchannel structure the inlet port is typically closer to the axis of symmetry than the outlet port. Each microchannel structure comprises a substructure that can retain liquid while the disc is spun around the axis and/or the inlet ports are positioned separate from the paths waste liquid leaving open waste outlet ports will follow across the surface of the disc when it is spun. For the microchannel structures of an annular zones the corresponding substructures are at essentially at the same radial distance while corresponding substructures in microchannel structures of different annular zones are at different radial distances. The invention also refers to several other substructures. The substructure are primarily adapted for transporting liquid aliquots that have a surface tension > 5 mN/m with centrifugal force.

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