Title (en)

FUNCTIONAL UNIT ENABLING CONTROLLED FLOW IN A MICROFLUIDIC DEVICE

Title (de)

EINEN KONTROLLIERTEN STROM IN EINER MIKROFLUIDVORRICHTUNG ERMÖGLICHENDE FUNKTIONSEINHEIT

Title (fr)

UNITE FONCTIONNELLE DE GESTION DES FLUX D'UN DISPOSITIF DE MICROFLUIDIQUE

Publication

EP 1427530 B1 20100811 (EN)

Application

EP 02773081 A 20020917

Priority

- SE 0201701 W 20020917
- SE 0103117 A 20010917
- SE 0200537 W 20020319
- US 32262101 P 20010917

Abstract (en)

[origin: WO03024598A1] A micro fluidic device which comprises two or more micro channel structures (201.301) (set 1), each of which comprises a structural unit which comprises (i) one or more inlet microconduits (102,103,202,203, 302,303), and (ii) an outlet microconduit (105,205,305) downstream said one or more inlet microconduits, and (iii) a flow path for a liquid passing through either of said inlet microconduits and said outlet microconduit. The device is characterized in that each outlet microconduit (105,305) in said two or more microchannel structures (201,301) is a restriction microconduit (105,205,305). There may also be a microcavity between the inlet microconduit(s) and the restriction micro conduit in each microchanel structure. Typically common flow control is used for driving a liquid flow within the device. The innovative design is useful for creating flow with low inter-channel variation with respect 15 to the microchannel structures of the device.

IPC 8 full level

B01J 19/00 (2006.01); **B01L 3/00** (2006.01); **B81B 1/00** (2006.01); **G01N 37/00** (2006.01)

CPC (source: EP)

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