

Title (en)

A micro-fluidic device based upon active matrix principles

Title (de)

Mikrofluidikvorrichtung auf der Basis von Aktivmatrixprinzipien

Title (fr)

Dispositif micro-fluidique basé selon les principes de matrice active

Publication

**EP 1972375 A1 20080924 (EN)**

Application

**EP 07104773 A 20070323**

Priority

EP 07104773 A 20070323

Abstract (en)

A micro-fluidic device (1) including a two-dimensional array of a plurality of components (2) for processing a fluid and/or for sensing properties of the fluid is suggested. Each component (2) is coupled to at least one control terminal (9,10) enabling an active matrix to change the state of each component individually. The components comprise at least one heater element (13). The active matrix includes a two-dimensional array of electronic components (12) realized in thin film technology on a flexible substrate, preferably a plastic. The active matrix provides a high versatility of the device. The thin film technology ensures a very cost efficient manufacturing also of large devices.

IPC 8 full level

**B01L 3/00** (2006.01)

CPC (source: EP)

**B01L 3/502715** (2013.01); **B01L 3/50273** (2013.01); **B01L 7/52** (2013.01); **B01L 2200/10** (2013.01); **B01L 2200/12** (2013.01); **B01L 2200/14** (2013.01); **B01L 2300/044** (2013.01); **B01L 2300/0636** (2013.01); **B01L 2300/0645** (2013.01); **B01L 2300/0819** (2013.01); **B01L 2300/1827** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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