

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 1972376 A1 20080924 (EN)**

Application

**EP 07104809 A 20070323**

Priority

EP 07104809 A 20070323

Abstract (en)

A micro-fluidic device (1) comprising actuation elements controlled by a two-dimensional array of a plurality of first electronic components (2) for processing a fluid and/or for sensing properties of the fluid is suggested. The active matrix includes a two-dimensional array of second electronic components realized in thin film technology. 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 US)

**B01L 3/502715** (2013.01 - EP); **B01L 7/52** (2013.01 - EP US); **F04B 19/24** (2013.01 - EP); **F04B 43/043** (2013.01 - EP US); **B01L 3/50273** (2013.01 - EP); **B01L 3/502738** (2013.01 - EP); **B01L 2200/10** (2013.01 - EP); **B01L 2200/14** (2013.01 - EP); **B01L 2300/024** (2013.01 - EP); **B01L 2300/0636** (2013.01 - EP); **B01L 2300/0645** (2013.01 - EP); **B01L 2300/0819** (2013.01 - EP); **B01L 2300/1827** (2013.01 - EP); **B01L 2400/0677** (2013.01 - EP)

Citation (search report)

- [X] US 2002150683 A1 20021017 - TROIAN SANDRA M [US], et al
- [X] WO 2007004153 A2 20070111 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 6403367 B1 20020611 - CHENG JING [CN], et al
- [A] US 2005084424 A1 20050421 - GANESAN KARTHIK [US], et al
- [A] US 6382254 B1 20020507 - YANG ZHIHAO [US], et al

Cited by

EP3930895A4

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)

**EP 1972376 A1 20080924**; WO 2008117223 A1 20081002

DOCDB simple family (application)

**EP 07104809 A 20070323**; IB 2008051076 W 20080321