

Title (en)

LAB-ON-A-CHIP COMPRISING A COPLANAR MICROFLUIDIC SYSTEM AND ELECTROSPRAY NOZZLE

Title (de)

LABOR AUF EINEM CHIP MIT KOPLANAREM MIKROFLUIDISCHEM SYSTEM UND ELEKTROSPRAY-DÜSE

Title (fr)

LABORATOIRE SUR PUCE COMPRENANT UN RESEAU MICRO-FLUIDIQUE ET UN NEZ D'ELECTRONEBULISATION COPLANAIRES

Publication

EP 1711955 A1 20061018 (FR)

Application

EP 05717692 A 20050128

Priority

- FR 2005050053 W 20050128
- FR 0450173 A 20040130

Abstract (en)

[origin: WO2005076311A1] The invention relates to a lab-on-a-chip comprising a fluidic system which is provided in a substrate, a fluid inlet which is connected to the fluidic system and a fluid outlet which is connected to the fluidic system. The aforementioned substrate comprises a plane layer (53) containing the fluidic system and an electrospray nozzle (65), said electrospray nozzle overhanging the rest of the substrate (51, 52). Moreover, the electrospray nozzle comprises a channel (64) having one end which is connected to the fluidic system and another end which forms the above-mentioned fluid outlet, said channel being equipped with electric conduction means (59) forming at least one electrode.

IPC 8 full level

H01J 49/04 (2006.01); **B01L 3/00** (2006.01)

CPC (source: EP US)

B01L 3/502707 (2013.01 - EP US); **H01J 49/04** (2013.01 - EP US); **B01L 2300/0816** (2013.01 - EP US); **B01L 2300/0867** (2013.01 - EP US)

Citation (search report)

See references of WO 2005076311A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2865806 A1 20050805; **FR 2865806 B1 20070202**; EP 1711955 A1 20061018; JP 2007519914 A 20070719; US 2007128078 A1 20070607; WO 2005076311 A1 20050818

DOCDB simple family (application)

FR 0450173 A 20040130; EP 05717692 A 20050128; FR 2005050053 W 20050128; JP 2006550262 A 20050128; US 58785205 A 20050128