

Title (en)
MICROFLUIDIC SYSTEM AND CORRESPONDING CONTROL METHOD

Title (de)
MIKROFLUIDISCHES SYSTEM UND ZUGEHÖRIGES ANSTEUERVERFAHREN

Title (fr)
SYSTEME MICROFLUIDIQUE ET PROCEDE DE COMMANDE CORRESPONDANT

Publication
EP 1858645 A1 20071128 (DE)

Application
EP 06723476 A 20060316

Priority
• EP 2006002431 W 20060316
• DE 102005012128 A 20050316

Abstract (en)
[origin: WO2006097312A1] The invention relates to a microfluidic system comprising a carrier current channel (1) for receiving a carrier current containing particles suspended therein, and at least one electrode arrangement (3) which is arranged in the carrier current channel and used to manipulate the suspended particles (2), said electrode arrangement (3) comprising two manipulation electrodes (4, 5). According to the invention, the electrode arrangement (3) comprises two centering electrodes (6, 7), in addition to the two manipulation electrodes (4, 5), for centering the particles, the two centering electrodes (6, 7) being arranged in the carrier current channel (1) respectively upstream of one of the two manipulation electrodes (4, 5). The invention also relates to a corresponding control method.

IPC 8 full level
B03C 5/00 (2006.01); **B03C 5/02** (2006.01)

CPC (source: EP US)
B03C 5/005 (2013.01 - EP US); **B03C 5/026** (2013.01 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005012128 A1 20060921; EP 1858645 A1 20071128; US 2009008254 A1 20090108; WO 2006097312 A1 20060921

DOCDB simple family (application)
DE 102005012128 A 20050316; EP 06723476 A 20060316; EP 2006002431 W 20060316; US 90860506 A 20060316