

Title (en)

CONTROL OF FLOW AND MATERIALS FOR MICRO DEVICES

Title (de)

DURCHFLUSSKONTROLLE UND MATERIALIEN FÜR MIKROVORRICHTUNGEN

Title (fr)

REGULATION DU FLUX ET DES MATIERES DESTINEE A DES MICRO-DISPOSITIFS

Publication

**EP 1092147 A1 20010418 (EN)**

Application

**EP 99927515 A 19990611**

Priority

- US 9913340 W 19990611
- US 8895698 P 19980611

Abstract (en)

[origin: WO9964851A1] The present invention generally relates to methods and devices for the control of the movement of fluids and electrically charged sample components within those fluids. More particularly, the present invention permits exclusion or concentration of specifically chosen sample components within a fluid. The present invention provides an analytical device, either microchip- or capillary-based, having the means to exclude specific sample components of interest from a capillary or channel for the purpose of preconcentration or control of movement of sample components. Such a control system includes a means for controlling the flow of the fluid in the channel and the placement of an electrode at the immediate entrance of each channel on such devices so that material may be directly manipulated by effects of both bulk flow and electrically driven migration.

IPC 1-7

**G01N 27/447**

IPC 8 full level

**G01N 27/447** (2006.01)

CPC (source: EP)

**G01N 27/44704** (2013.01)

Citation (search report)

See references of WO 9964851A1

Cited by

GB2477287A; GB2477287B; US9052262B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9964851 A1 19991216**; CA 2328400 A1 19991216; EP 1092147 A1 20010418; JP 2002517751 A 20020618

DOCDB simple family (application)

**US 9913340 W 19990611**; CA 2328400 A 19990611; EP 99927515 A 19990611; JP 2000553795 A 19990611