

Title (en)

HIGH-DENSITY ION TRANSPORT MEASUREMENT BIOCHIP DEVICES AND METHODS

Title (de)

BIOCHIP-VORRICHTUNGEN MIT HOHER DICHT E ZUR IONENTRANSPORTMESSUNG UND VERFAHREN DAMIT

Title (fr)

DISPOSITIFS ET PROCEDES DE BIOPUCE DE MESURE DE TRANSPORT IONIQUE A DENSITE ELEVEE

Publication

**EP 1709424 A2 20061011 (EN)**

Application

**EP 05763625 A 20050110**

Priority

- US 53546104 P 20040110
- US 76088604 A 20040120
- US 85833904 A 20040601
- US 58582204 P 20040706
- US 2005000732 W 20050110

Abstract (en)

[origin: WO2005098396A2] The present invention provides novel biochips, biochip-based devices, and device configurations that can be used for ion transport measurement. The chips, devices, and designs of the present invention are particularly suited to high-throughput assays such as compound screening assays using patch clamping techniques. The invention includes high-density biochips made by novel methods and methods of making high density biochips, and also provides novel upper chamber configurations and fluidics designs for upper chambers of ion transport measurement devices that can be used in high throughput patch clamp assays. The present invention also includes methods of using ion transport measuring chips and devices of the present invention.

IPC 8 full level

**B01L 3/00** (2006.01); **C12M 1/34** (2006.01); **C12M 3/00** (2006.01); **G01N 15/06** (2006.01); **G01N 33/487** (2006.01); **G01N 33/50** (2006.01); **G01N 33/543** (2006.01); **G01N 33/68** (2006.01); **B01L 3/02** (2006.01)

CPC (source: EP)

**B01L 3/5027** (2013.01); **G01N 33/48728** (2013.01); **G01N 33/5005** (2013.01); **G01N 33/5438** (2013.01); **G01N 33/6872** (2013.01); **B01L 3/0268** (2013.01); **B01L 3/5088** (2013.01); **B01L 2300/0645** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/0874** (2013.01); **B01L 2400/086** (2013.01)

Citation (search report)

See references of WO 2005098396A2

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

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**WO 2005098396 A2 20051020**; **WO 2005098396 A3 20081009**; CA 2554376 A1 20051020; EP 1709424 A2 20061011

DOCDB simple family (application)

**US 2005000732 W 20050110**; CA 2554376 A 20050110; EP 05763625 A 20050110