Title (en)

MULTIBLOCK MICRO-ARRAYS OR MACRO-ARRAYS WITH LAB-ON-A-CHIP

Title (de)

MIKROARRAY- ODER MAKROARRAY-MEHRFACHBLÖCKE MIT LABORATORIEN AUF INTEGRIERTEN MIKROCHIPS

Title (fr)

MICRO-ARRAYS OU MACRO-ARRAYS MULTIBLOCS AVEC LABORATOIRES SUR PUCES INTEGRES

Publication

EP 1268062 A1 20030102 (FR)

Application

EP 01921418 A 20010322

Priority

- FR 0100881 W 20010322
- FR 0003680 A 20000322

Abstract (en)

[origin: WO0170400A1] The invention concerns multiblock micro-arrays or macro-arrays incorporating laboratories on chips, for use in chemical, biochemical or biological analysis or chemical or biochemical synthesis. It consists in a flat elementary module provided with parallel microchannels at their surface which emerge into the thickness and on the edge of their sides. The stacking of several similar flat elementary modules creates a sealed superimposition of lines of the micro-array or macro-array, and consequently an integral multiblock micro-array or macro-array. The microchannels can be provided with micro-mixers and widened portions, provided with molecule-fixing surfaces or receive micro-columns or micro-particles or micro-spheres, thereby enabling to perform on very small volumes parallel reactions, by juxtaposing the lines. Multiblock micro-arrays or macro-arrays can constitute an integrated chain of analysis or synthesis.

IPC 1-7

B01L 3/00

IPC 8 full level

B01J 19/00 (2006.01); **B01L 3/00** (2006.01); C40B 60/14 (2006.01); G01N 30/46 (2006.01); G01N 35/00 (2006.01); G01N 35/10 (2006.01)

CPC (source: EP)

B01J 19/0046 (2013.01); **B01J 19/0093** (2013.01); **B01L 3/5025** (2013.01); **B01L 3/502707** (2013.01); **B01L 3/502715** (2013.01); **B82Y 30/00** (2013.01); B01J 2219/00317 (2013.01); B01J 2219/00319 (2013.01); B01J 2219/00369 (2013.01); B01J 2219/00432 (2013.01); B01J 2219/00479 (2013.01); B01J 2219/00522 (2013.01); B01J 2219/00527 (2013.01); B01J 2219/00585 (2013.01); B01J 2219/0059 (2013.01); B01J 2219/00596 (2013.01); B01J 2219/00605 (2013.01); B01J 2219/0061 (2013.01); B01J 2219/00612 (2013.01); B01J 2219/00621 (2013.01); B01J 2219/00626 (2013.01); B01J 2219/00659 (2013.01); B01J 2219/00664 (2013.01); B01J 2219/00707 (2013.01); B01J 2219/00711 (2013.01); B01J 2219/0072 (2013.01); B01J 2219/00871 (2013.01); B01L 2200/027 (2013.01); B01L 2200/028 (2013.01); B01L 2300/0681 (2013.01); B01L 2300/0816 (2013.01); B01L 2300/087 (2013.01); B01L 2300/0887 (2013.01); C40B 60/14 (2013.01); G01N 30/466 (2013.01); G01N 35/1065 (2013.01); G01N 2035/00237 (2013.01)

Citation (search report)

See references of WO 0170400A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0170400 A1 20010927; **WO 0170400 A8 20020404**; AU 4841401 A 20011003; EP 1268062 A1 20030102; FR 2806646 A1 20010928

DOCDB simple family (application)

FR 0100881 W 20010322; AU 4841401 A 20010322; EP 01921418 A 20010322; FR 0003680 A 20000322