

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

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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.

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