

PROCESSES FOR DESIGNING AND FABRICATING A DEVICE COMPRISING AN
ARRAY OF MICRO-MACHINED ELEMENTS, DEVICE OBTAINED AT THE END
OF SUCH PROCESSES

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ABSTRACT

The invention relates to a design process for designing a device comprising a plurality of micro-machined elements each comprising a flexible membrane, the elements being arranged in
10 a plane in a determined topology, the design process comprising a step of defining the determined topology so that it has a character compatible with a generic substrate (20) having cavities (24) the characteristics of which are pre-established, each flexible membrane of the micro-machined
15 elements being associated with one cavity (24) of the generic substrate (20). The invention also relates to a fabrication process for fabricating a device comprising a plurality of micro-machined elements, and to this device itself, only certain of the pairs formed from one cavity (24) and from one
20 flexible membrane being configured to form a set of functional micro-machined elements.

Figure 2c