

Title (en)  
MICROPUMP WITH A BUILT-IN INTERMEDIATE PART

Title (de)  
MICROPUMPE MIT EINGEBAUTEM ZWISCHENSTÜCK

Title (fr)  
MICROPOMPE AVEC PIECE INTERMEDIAIRE INTEGREE

Publication  
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Application  
**EP 97954671 A 19971219**

Priority  
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Abstract (en)  
[origin: FR2757906A1] A micropump including at least one main plate (1), at least one upper plate (2), and a middle plate (3) arranged between the other two plates (1, 2) and forming a pumping chamber (4) that is connected with at least one inlet of the micropump and at least one outlet of the micropump. The pumping chamber comprises a movable wall (5) machined into the middle plate (3); the upper plate is equipped with at least one opening (12) linking a cavity (8) with at least one portion of the movable wall (5). Actuation devices (6, 7, 13) attached to the free surface of the upper plate (2) are used to shift said movable wall (5) in order to bring about a periodic variation in the volume of the pumping chamber (4). According to the invention, the actuating devices (6, 7, 13) are formed by an actuating plate (7) of a material which can be machined so as to define a movable area (11) and said cavity (8). A intermediate part (13), formed from the upper plate (2), is fastened to the actuating plate so as to establish contact with the movable wall (5).

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