

Title (en)

SYSTEM AND METHOD OF MICRO-FLUIDIC HANDLING AND DISPENSING USING MICRO-NOZZLE STRUCTURES

Title (de)

SYSTEM UND VERFAHREN ZUR MIKROFLUIDISCHEN BEHANDLUNG UND ABGABE DURCH VERWENDUNG VON MIKRODÜSENSTRUKTUREN

Title (fr)

SYSTEME ET PROCEDE DE GESTION ET DE DISTRIBUTION DE MICROFLUIDES AU MOYEN DE STRUCTURES DE MICROBUSES

Publication

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Application

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Abstract (en)

[origin: WO2004049287A1] A fluid-dispensing device comprises substrate (212) and a plurality of nozzles (204) formed in the substrate (212). Each nozzle has (204) has an open-ended tip and a fluid-conducting channel (220) between the tip and a source of fluid. A non-conducting spacer is on the substrate (212) and electrically isolates a gate electrode (208) from the substrate (212). The gate electrode is located adjacent to the tip of at least one of the nozzles (204) to effect dispensing of the fluid in that nozzle (204) in response to a voltage applied between the gate electrode (208) and the nozzle (204) or fluid in the nozzle (204). The gate electrode (208) includes a plurality of individually addressable gate electrodes used for selectively actuating nozzles (204).

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