

Title (en)

MICRO-MINIATURISED, ELECTROSTATICALLY DRIVEN DIAPHRAGM MICROPUMP.

Title (de)

MIKROMINIATURISIERTE, ELEKTROSTATISCH BETRIEBENE MIKROMEMBRANPUMPE.

Title (fr)

MICROPOMPE MICROMINIATURISEE A MEMBRANE ET A COMMANDE ELECTROSTATIQUE.

Publication

EP 0603201 B1 19951115 (DE)

Application

EP 92916327 A 19920728

Priority

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Abstract (en)

[origin: DE4143343A1] The electrostatic membrane pump has two pump blocks (2,3) of differing conductivity semiconductor materials, one of which provides a membrane zone (6) and each of which has a conductive electrode zone (11) coupled to a voltage source. The blocks (2,3) are relatively insulated from one another and together define a hollow space (10) adjacent the membrane zone (6), filled with a different fluid medium from that handled by the pump via an opening (4,5) in the pump block (2) opposite that incorporating the membrane zone (6). The opposing electrode zones (11) are arranged so that the fluid filling the hollow space (10) is subjected to the electrical field, but not the pumped fluid medium. USE - Accurate dosing of fluids in microlitre and sub-microlitre range.

IPC 1-7

F04B 43/04

IPC 8 full level

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CPC (source: EP US)

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