

Title (en)
DEVICE FOR HANDLING DROPS FOR BIOCHEMICAL ANALYSIS, METHOD FOR PRODUCING SAID DEVICE AND A SYSTEM FOR MICROFLUIDIC ANALYSIS

Title (de)
VORRICHTUNG ZUR HANDHABUNG VON TROPFEN ZUR BIOCHEMISCHEN ANALYSE, VERFAHREN ZUR HERSTELLUNG EINER DERARTIGEN VORRICHTUNG UND SYSTEM ZUR MIKROFLUIDISCHEN ANALYSE

Title (fr)
DISPOSITIF DE MANIPULATION DE GOUTTES DESTINE A L'ANALYSE BIOCHIMIQUE, PROCEDE DE FABRICATION DU DISPOSITIF, ET SYSTEME D'ANALYSE MICROFLUIDIQUE

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Abstract (en)
[origin: WO2006003293A2] The invention relates to a device for handling drops by electrowetting through a displacement plane provided with at least one displacement path. Said path comprises an electrically insulating substrate on which two or several interdigital conductive electrodes are arranged. Said electrodes are coated with a dielectric insulating layer which is also coated with a partially wetting layer. The invention also relates to a method for producing said device according to which the production of the partially wetting layer consists in forming a mask made of a photosensitive material by applying said material to the substrate, in photolithographing, in disclosing the photosensitive material, in applying a non-wetting material to the mask, in carrying out solution annealing, in solving the mask and in carrying out at least one after-solution annealing. Said invention also relates to a system for the microfluidic analysis of a liquid sample consisting of at least one means for preparing a liquid sample coupled with at least one inventive drop handling device which is also connected to at least one means for the sample analysis.

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