

Title (en)  
CAPILLARY ELECTROFLOW APPARATUS AND METHOD

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR KAPILLARSTRÖMUNG MIT EINEM ELEKTRISCHEN FELD

Title (fr)  
APPAREIL ET PROCEDE D'ELECTROFLUIDITE CAPILLAIRE

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Application  
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Abstract (en)  
[origin: WO9915888A1] The present invention concerns an apparatus for conducting a microfluidic process. The apparatus comprises integral first and second plates (100, 110). The first plate (100) comprises an array of sample receiving elements (102) for receiving a plurality of samples from an array of sample containers and dispensing the samples. The second plate (110) comprises a planar array of microfluidic networks of cavity structures and channels for conducting a microfluidic process. Also disclosed is a method for processing an array of samples. At least a portion of each sample in an array of sample wells is simultaneously transferred to a corresponding array of microfluidic networks of cavity structures and channels by means of a corresponding array of sample receiving elements that is in integral fluid communication with the array of microfluidic networks. The samples are then processed. Also disclosed is a device for conducting a microfluidic process wherein the device comprising a planar substrate having a planar array of microfluidic networks of cavity structures and channels for conducting a microfluidic process. A plurality of such devices may be present on a continuous sheet. The invention further includes kits for carrying out microfluidic processes comprising an apparatus as described above.

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Citation (search report)  
• [XA] EP 0708331 A1 19960424 - HEWLETT PACKARD CO [US]  
• [XA] US 5603351 A 19970218 - CHERUKURI SATYAM C [US], et al  
• [XA] WO 9704297 A1 19970206 - UNIV NORTHEASTERN [US]  
• See references of WO 9915888A1

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