

Title (en)

SYSTEM FOR MANIPULATING SAMPLES IN LIQUID DROPLETS

Title (de)

SYSTEM ZUM VERÄNDERN VON PROBEN IN FLÜSSIGKEITSTROPFEN

Title (fr)

SYSTÈME DE MANIPULATION D'ÉCHANTILLONS SOUS FORME DE GOUTTELETTES LIQUIDES

Publication

**EP 2943279 A1 20151118 (EN)**

Application

**EP 13700642 A 20130109**

Priority

EP 2013050327 W 20130109

Abstract (en)

[origin: WO2014108186A1] A liquid droplet manipulation system (40) comprises a substrate (42) with at least one electrode array (20) and a central control unit (43) for controlling the selection of individual electrodes (44) of the electrode array(s) (20) and for providing the electrodes (44) with individual voltage pulses for manipulating liquid droplets (23) by electrowetting. The liquid droplet manipulation system (40) is configured to receive on top of the electrodes (44) a working film (10) for manipulating samples in liquid droplets (23) with the electrode array(s) (20) when the working film (10) is placed on said electrode array(s) (20). At least one selected individual electrode (44) of the electrode array(s) (20) of the liquid droplet manipulation system (40) is configured to be penetrated by light of an optical detection system for the optical inspection or analysis of samples in liquid droplets (23) that are located on the working film (10). Also disclosed is working film (10) that is to be placed on said electrode array(s) (20) and a cartridge (1) that comprises such a working film (10) for manipulating samples in liquid droplets (23).

IPC 8 full level

**B01L 3/00** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2014108186A1

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