

Title (en)
Micro-device for analysing liquid samples

Title (de)
Mikrovorrichtung zur Analyse von flüssigen Proben

Title (fr)
Micro-dispositif d'analyse d'échantillons liquides

Publication
EP 2165753 A3 20100707 (FR)

Application
EP 09170824 A 20090921

Priority
FR 0856390 A 20080923

Abstract (en)
[origin: EP2165753A2] The device has an excitation electrode (20) for generating a radial and oscillating electric field around a symmetrical axis under the effect of electrical control such that the electric field generates axisymmetric surface waves of fluid droplet (F1) in presence of the droplet provided on the electrode. The fluid droplet includes a symmetrical axis coinciding with the symmetrical axis. The field induces an electrowetting voltage difference between the excitation electrode and the droplet, where the difference has amplitude comprised between 1 volt to 100 volts. Independent claims are also included for the following: (1) a liquid droplet analyzing device comprising analyzing units (2) a method for forming surface waves at an interface of liquid droplet by electrowetting (3) a method for analyzing liquid droplet.

IPC 8 full level
B01F 13/00 (2006.01); **G01N 11/00** (2006.01); **G01N 13/02** (2006.01)

CPC (source: EP US)
B01F 31/80 (2022.01 - EP US); **B01F 33/3021** (2022.01 - EP US)

Citation (search report)

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