

Title (en)

Method and apparatus for dispensing a liquid with a pipetting needle

Title (de)

Verfahren und Vorrichtung zur Ausgabe von Flüssigkeiten mit einem Pipettiernadel

Title (fr)

Méthode et dispositif pour distribuer un liquide avec une aiguille de pipette

Publication

**EP 1614469 B1 20070919 (EN)**

Application

**EP 05075977 A 20050425**

Priority

- EP 04076436 A 20040514
- EP 05075977 A 20050425

Abstract (en)

[origin: EP1614469A2] A method and a micropipetting apparatus for dispensing a liquid volume into a vessel by means of a pipetting needle and without any contact between said needle and a liquid contained in said vessel. The method comprises forming a drop (17) at the delivery tip (22) of the pipetting needle (11), said drop being retained at the tip by adhesion forces, and ejecting said drop (17) from said tip (22) by focusing at the tip of the pipetting needle (11) a mechanical excitation wave applied to an excitation point at some distance from said needle. The apparatus comprises a pipetting needle (11), an electromechanical transducer (32) mechanically connected with said pipetting needle (11), electrical signal generating means (33) for generating an excitation pulse (26) signal and for applying this signal to said electromechanical transducer (32) for mechanically exciting said pipetting needle (11) with a pulse of mechanical waves that propagate through said needle.

IPC 8 full level

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