

Title (en)

Method and device for the contactless mixing of liquids

Title (de)

Verfahren und Vorrichtung zur berührungslosen Durchmischung von Flüssigkeiten

Title (fr)

Procédé et dispositif destinés au mélange sans contact de liquides

Publication

**EP 2783747 B1 20180502 (DE)**

Application

**EP 14162100 A 20140327**

Priority

- EP 13161448 A 20130327
- EP 14162100 A 20140327

Abstract (en)

[origin: EP2783747A1] The method involves providing a volume of liquid (50), and generating a thermal convection flow at a surface/boundary surface of the volume of liquid by irradiating electromagnetic radiation (30) into the volume of liquid. The volume of liquid is provided in a sample chamber (45) that is designed in an open or closed manner. A capillary having an inner diameter of from 0.05 mm to 0.8 mm is provided as a drop on an object carrier, where the capillary is made from glass. The electromagnetic radiation is produced by an LED or a laser and directed parallel and/or antiparallel to gravitation. An independent claim is also included for a system with a device for executing a method for mixing liquids or particles with liquid.

IPC 8 full level

**B01F 13/00** (2006.01)

CPC (source: EP US)

**B01F 33/053** (2022.01 - US); **B01F 33/055** (2022.01 - EP US); **B01F 33/12** (2022.01 - EP US); **B01F 33/3034** (2022.01 - EP US); **B01F 35/20** (2022.01 - EP US); **B01F 2215/0431** (2013.01 - EP US); **B01F 2215/0472** (2013.01 - EP US)

Cited by

CN111093732A; CN113905810A; WO2019025623A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2783747 A1 20141001**; **EP 2783747 B1 20180502**; ES 2677975 T3 20180807; US 2014293731 A1 20141002; US 9987604 B2 20180605

DOCDB simple family (application)

**EP 14162100 A 20140327**; ES 14162100 T 20140327; US 201414227521 A 20140327