Title (en)

Device for mixing the contents of laboratory vessels

Title (de)

Vorrichtung zum Mischen von Laborgefäß-Inhalten

Title (fr)

Dispositif de mélange de contenus de récipients de laboratoire

Publication

EP 1832336 B1 20120801 (DE)

Application

EP 07004433 A 20070305

Priority

DE 102006011371 A 20060309

Abstract (en)

[origin: EP1832336A1] The device for mixing a laboratory container contents comprises a reception adapter (4) with a support (6, 8) for the reception of the containers in alternation block, and a drive, through which the reception adapter is moved into a mixing movement with a frequency of more than 3000 U/min and/or a radius of more than 2 cm. The mixing movement passes in horizontal, plain circular translatory oscillation manner. The reception adapter shows a vortex-adapter accessible from outside, and a recess structure on a circumference with a recess. The device for mixing a laboratory container contents comprises a reception adapter (4) with a support (6, 8) for the reception of the containers in alternation block, and a drive, through which the reception adapter is moved into a mixing movement with a frequency of more than 3000 U/min and/or a radius of more than 2 cm. The mixing movement passes in horizontal, plain circular translatory oscillation manner. The reception adapter shows a vortex-adapter accessible from outside, and a recess structure on a circumference with a recess. The recess points to the center of circumference for positive take up of test-tube held from outside, into the mixing movement. The vortex adapter shows a trough (12) and/or three flanks radial sloping to the center and/or a surface elastically pushed to a trough. The recess structure of the vortex adapter shows an elastic surface and/or a glass- or adhesive surface from elastomer. A part of the upper surface of an interchangeable mat (10) on the reception adapter is removable. The frequency and radius of the mixing movement is adjustable. The support shows a spring gripping element that holds a received alternation block in positively locking- and frictionally engaging manner. An elastic thrust bearing is in the form of elastic tube or elastic cylinder, in which the gripping element pushes the alternation block. Guidance introduces the alternation block, vertically from above into the support until against an attack. The gripping element exerts a lateral retention force on the alternation block. The support is not positive fit without additional notch and bolt.

IPC 8 full level

B01F 11/00 (2006.01); **B01L 99/00** (2010.01); **C12M 1/02** (2006.01)

CPC (source: EP US)

B01F 31/201 (2022.01 - EP US); **B01F 31/22** (2022.01 - EP US); B01F 23/40 (2022.01 - EP US); B01F 31/445 (2022.01 - EP US); B01F 2101/23 (2022.01 - EP US)

Cited by

CN108786611A; CN103725593A; CN111282491A; US8016478B2; WO2008107139A1; WO2020007831A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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