

Title (en)

SOLID REAGENT DISSOLVING DEVICE AND METHOD OF DISSOLVING SOLID REAGENT BY USING THE SAME

Title (de)

FESTREAGENZIEAUFLÖSUNGSVORRICHTUNG UND VERFAHREN ZUR AUFLÖSUNG VON FESTREAGENZIEEN DURCH VERWENDUNG DAVON

Title (fr)

DISPOSITIF DE DISSOLUTION DE RÉACTIF SOLIDE ET PROCÉDÉ DE DISSOLUTION D'UN RÉACTIF SOLIDE À L'AIDE DE CELUI-CI

Publication

**EP 2610009 A1 20130703 (EN)**

Application

**EP 12199655 A 20121228**

Priority

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- KR 20120139270 A 20121203

Abstract (en)

A solid reagent dissolving device and a method of dissolving a solid reagent by using the solid reagent dissolving device. The solid reagent dissolving device includes a flexible layer; an upper plate disposed on the flexible layer; and a lower plate disposed under the flexible layer, wherein the upper plate comprises a plurality of minute channels, a dissolution chamber connected with the plurality of minute channels, and a protrusion for limiting a flow of a fluid flowing through one of the plurality of minute channels, the lower plate comprises a plurality of penetration holes that correspond to the protrusion and the dissolution chamber, respectively, and one side of each of the plurality of penetration holes, the plurality of minute channels, and the dissolution chamber are covered with the flexible layer.

IPC 8 full level

**B01L 3/00** (2006.01)

CPC (source: EP)

**B01L 3/50273** (2013.01); **B01L 3/502738** (2013.01); **B01L 3/523** (2013.01); **B01L 3/527** (2013.01); **B01L 2200/0647** (2013.01); **B01L 2200/16** (2013.01); **B01L 2300/04** (2013.01); **B01L 2300/047** (2013.01); **B01L 2300/0809** (2013.01); **B01L 2300/0887** (2013.01); **B01L 2300/123** (2013.01); **B01L 2300/161** (2013.01); **B01L 2400/0433** (2013.01); **B01L 2400/0655** (2013.01)

Citation (search report)

- [XA] WO 2011048521 A1 20110428 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [XA] DE 102010015161 A1 20111020 - UNIV DRESDEN TECH [DE]
- [A] DE 102006030068 A1 20080103 - M2P LABS GMBH [DE]
- [A] EP 1203959 A1 20020508 - ASAHI CHEMICAL IND [JP]
- [A] EP 2042237 A1 20090401 - KONINKL PHILIPS ELECTRONICS NV [NL]
- [XA] KYU-YOUN HWANG ET AL: "Miniaturized bead-beating device to automate full DNA sample preparation processes for Gram-positive bacteria", LAB ON A CHIP, ROYAL SOCIETY OF CHEMISTRY, vol. 11, no. 21, 7 November 2011 (2011-11-07), pages 3649 - 3655, XP002665173, ISSN: 1473-0197, [retrieved on 20110914], DOI: 10.1039/C1LC20692C

Cited by

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