

Title (en)
INTEGRATED SAMPLE PROCESSING SYSTEM

Title (de)
INTEGRIERTES PROBENVERARBEITUNGSSYSTEM

Title (fr)
SYSTÈME INTÉGRÉ DE TRAITEMENT D'ÉCHANTILLONS

Publication
EP 3384042 A4 20190508 (EN)

Application
EP 15909910 A 20151201

Priority
US 2015063232 W 20151201

Abstract (en)
[origin: WO2017095394A1] An integrated sample purification system includes a housing, a sample container rack, a filter holder, and a cylindrical magnet. The sample container rack and the filter device holder are disposed in the housing. The sample container rack is configured to hold one or more sample containers, the filter device holder is configured to hold one or more filter devices. The cylindrical magnet is adjacent to and external to the sample container rack, and is rotated about a central, longitudinal axis of the magnet by an electric motor disposed in the housing to lyse cells. Molecules of interest in the lysed cells are purified using filters that bind specifically to the molecules of interest. The system is readily amenable to automation and rapid purification and analysis of molecules of interest, such as nucleic acids and proteins.

IPC 8 full level
C12Q 1/68 (2018.01); **C40B 60/12** (2006.01)

CPC (source: EP)
C12Q 1/6806 (2013.01); **G01N 1/286** (2013.01); **G01N 35/0099** (2013.01)

Citation (search report)

- [XAI] WO 2011047233 A1 20110421 - PROMEGA CORPORTION [US], et al
- [I] US 2012149603 A1 20120614 - COONEY CHRISTOPHER G [US], et al
- [A] US 2015203806 A1 20150723 - YAGER PAUL [US], et al
- [A] A. BERASALUCE ET AL: "Bead beating-based continuous flow cell lysis in a microfluidic device", RSC ADVANCES, vol. 5, no. 29, 1 January 2015 (2015-01-01), pages 22350 - 22355, XP055575495, DOI: 10.1039/C5RA01251A
- See references of WO 2017095394A1

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)
WO 2017095394 A1 20170608; CA 3007019 A1 20170608; CN 108603221 A 20180928; EP 3384042 A1 20181010; EP 3384042 A4 20190508; JP 2018537676 A 20181220

DOCDB simple family (application)
US 2015063232 W 20151201; CA 3007019 A 20151201; CN 201580085776 A 20151201; EP 15909910 A 20151201; JP 2018528337 A 20151201