

Title (en)

INTEGRATED SYSTEM FOR REAL-TIME MONITORING OF MICROFLUIDIC REACTIONS

Title (de)

INTEGRIERTES SYSTEM ZUR ECHTZEITÜBERWACHUNG MIKROFLUIDISCHER REAKTIONEN

Title (fr)

SYSTÈME INTÉGRÉ UTILISÉ POUR LA SURVEILLANCE EN TEMPS RÉEL DE RÉACTIONS MICROFLUIDIQUES

Publication

EP 2855658 A4 20160224 (EN)

Application

EP 13797711 A 20130531

Priority

- CN 201210177086 A 20120531
- CN 2013000647 W 20130531

Abstract (en)

[origin: WO2013177953A1] A system for real-time monitoring of a microfluidic reaction and a method thereof are provided. The system comprises a platform for holding a microfluidic device; a temperature control module (4); a peripheral flow module; and a real-time imaging module. The method comprises providing a reagent to the microfluidic device; and monitoring the reaction using the real-time imaging module. Furthermore, methods for optimizing a reaction condition using the system are provided.

IPC 8 full level

B01L 7/00 (2006.01); **C12M 1/34** (2006.01); **G01N 33/68** (2006.01); **B01L 3/00** (2006.01)

CPC (source: EP)

B01L 7/52 (2013.01); **B01L 3/502715** (2013.01); **B01L 2400/0487** (2013.01)

Citation (search report)

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- [T] US 2014011707 A1 20140109 - YE JIAMING [CN], et al
- [A] US 7314718 B1 20080101 - DASGUPTA PURNENDU KUMAR [US], et al
- [X] MARTIN JENSEN SØE ET AL: "HistoFlex-a microfluidic device providing uniform flow conditions enabling highly sensitive, reproducible and quantitative in situ hybridizations", LAB ON A CHIP, vol. 11, no. 22, 1 January 2011 (2011-01-01), GB, pages 3896, XP055238751, ISSN: 1473-0197, DOI: 10.1039/c1lc20748b
- [A] TYRRELL E ET AL: "Development of a micro-fluidic manifold for copper monitoring utilising chemiluminescence detection", LAB ON A CHIP, ROYAL SOCIETY OF CHEMISTRY - CAMBRIDGE, GB, vol. 4, no. 4, 1 August 2004 (2004-08-01), pages 384 - 390, XP002584852, ISSN: 1473-0197, [retrieved on 20040426], DOI: 10.1039/B400805G
- See references of WO 2013177953A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2013177953 A1 20131205; CN 102719357 A 20121010; CN 102719357 B 20140709; EP 2855658 A1 20150408; EP 2855658 A4 20160224

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