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New Microwell Plate Configurations to Increase Microwell Density

Tech ID: 21633 / UC Case 2011-574-0

PATENT STATUS

| Country | Type | Number | Dated | Case |
|--------------------------|---------------|-----------|------------|----------|
| United States Of America | Issued Patent | 9,095,852 | 08/04/2015 | 2011-574 |

BRIEF DESCRIPTION

Researchers at the University of California, Irvine have developed a process and method to increase microwell density by as much as twofold in a 2D imaging plane using 3-D arrangements of micro-well reactor plates.

SUGGESTED USES

This new arrangement may be used in biochemical or biological reaction and assays that require the monitoring of fluorescence intensity or colorimetric changes within individual wells.

ADVANTAGES

The primary advantage is that the density of the reactor wells per unit area are increased by as much as twofold.

CONTACT

Alvin Viray
aviray@uci.edu
tel: 949-824-3104.



INVENTORS

- » Hatch, Andrew C.
- » Lee, Abraham P.

OTHER INFORMATION

KEYWORDS

droplet, micro-reactor, microfluidics, microwell, fluorescence, colorimetric

CATEGORIZED AS

- » **Biotechnology**
- » Other
- » **Medical**
- » Devices
- » Diagnostics
- » Research Tools

» **Research Tools**

» Nucleic
Acids/DNA/RNA

» Other

» **Sensors &
Instrumentation**

» Scientific/Research

RELATED CASES

2011-574-0, 2011-163-0,
2011-159-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Controlled 'One-Cell-One-Bead' Encapsulation in Droplets
- ▶ Microfluidic device for multiplex diagnostics / Microfluidic devices and methods
- ▶ Microfluidic Device for Cell Separation Using Dielectrophoresis and/or Magnetohydrodynamics
- ▶ On-Demand Cell Encapsulation Using On-Demand Droplet Generation and Impedance-based Detection
- ▶ High throughput and precision cell sorting

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5270 California Avenue / Irvine, CA
92697-7700 / Tel: 949.824.2683



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