

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOHN J. RAJASEKARAN | 03/20/2015 |
| VASANTH JAYARAMAN | 03/20/2015 |
| TIANHAO WANG | 03/20/2015 |
| HARI KRISHNAN KRISHNAMURTHY | 03/20/2015 |
| RECEIVING PARTY DATA | |
| Name: | VIBRANT HOLDINGS, LLC |
| Street Address: | 1116 TOURNAMENT DRIVE |
| City: | HILLSBOROUGH |
| State/Country: | CALIFORNIA |
| Postal Code: | 94010 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| PCT Number: | US2013070207 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 24856/PCT |
| NAME OF SUBMITTER: | SANDRA K. DUNCAN |
| SIGNATURE: | /Sandra K. Duncan/ |
| DATE SIGNED: | 03/27/2015 |
| Total Attachments: 2 | |
| source=24856 PCT Assignment#page1.tif | |
| source=24856 PCT Assignment#page2.tif | |

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to VIBRANT HOLDINGS, LLC, a Delaware corporation, having a place of business at 1116 Tournament Drive, Hillsborough, California 94010 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- International Patent Application No. PCT/US2013/070207, entitled "SUBSTRATES, SYSTEMS, AND METHODS FOR ARRAY SYNTHESIS AND BIOMOLECULAR ANALYSIS," filed on November 14, 2013, which claims priority from U.S. Provisional Application Nos. 61/726,515 filed November 14, 2012; 61/732,221 filed November 30, 2012; 61/765,584 filed February 15, 2013; 61/805,884 filed March 27, 2013; 61/866,512 filed August 15, 2013; and International Application Nos. PCT/US2013/025190 filed February 7, 2013, and PCT/US2013/062773 filed September 30, 2013.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

Title: Substrates, Systems, and Methods for Array Synthesis and Biomolecular Analysis
Filed: November 14, 2013
Application No.: PCT/US2013/070207

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

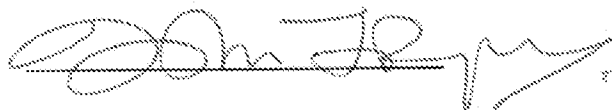
This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature

John J. Rajasekaran

Date of Signature

03-20-2015

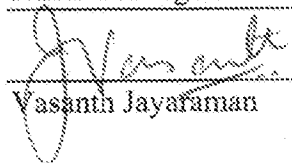


Name and Signature

Vasanth Jayaraman

Date of Signature

03-20-2015

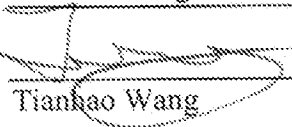


Name and Signature

Tianhao Wang

Date of Signature

03-20-2015

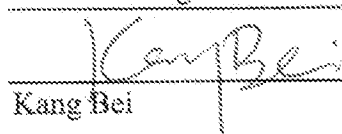


Name and Signature

Kang Bei

Date of Signature

03-20-2015



Name and Signature

Hari Krishnan Krishnamurthy

Date of Signature

03-20-2015

