504083373 11/04/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4130041

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------------|----------------|
| STEPHANIE ANNE THATCHER | 11/02/2016 |
| JEREMY PAUL GREEN | 11/03/2016 |
| ERIK WONG HUYNH | 11/02/2016 |
| ANDREW CLINTON HEMMERT | 11/02/2016 |
| JESSE LINTON MONTGOMERY | 11/02/2016 |
| ROBERT JOHN CRISP | 11/02/2016 |
| KENDALL A. RASBAND | 11/02/2016 |
| ELIZABETH MARY OTT CROWTHER | 11/03/2016 |
| CHERYL LYNN BAIRD | 11/03/2016 |

RECEIVING PARTY DATA

| Name: | BIOFIRE DIAGNOSTICS, LLC |
|-----------------|--------------------------|
| Street Address: | 390 WAKARA WAY |
| City: | SALT LAKE CITY |
| State/Country: | UTAH |
| Postal Code: | 84108 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15340612 |

CORRESPONDENCE DATA

Fax Number: (919)854-1401

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 919-854-1400

Email: mspinelli@myersbigel.com

Correspondent Name: MYERS BIGEL, P.A. Address Line 1: PO BOX 37428

Address Line 4: RALEIGH, NORTH CAROLINA 27627

ATTORNEY DOCKET NUMBER: 1267-12

NAME OF SUBMITTER: MADDIE SPINELLI

PATENT 504083373 REEL: 040231 FRAME: 0367

| SIGNATURE: | /MNS/ |
|-------------------------------------|------------|
| DATE SIGNED: | 11/04/2016 |
| Total Attachments: 6 | |
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| source=1267-12_Assignment#page2.tif | |
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| source=1267-12_Assignment#page5.tif | |
| source=1267-12_Assignment#page6.tif | |

PATENT REEL: 040231 FRAME: 0368

ASSIGNMENT

THIS ASSIGNMENT, made by us, Stephanie Anne Thatcher, a citizen of the United States of America, residing at 1618 E. 1300 S., Salt Lake City, UT 84105; Jeremy Paul Green, a citizen of the United States of America, residing at 4541 Westview Dr., Salt Lake City, UT 84124; Erik Wong Huynh, a citizen of the United States of America, residing at 6445 S. Orange Sky Ct., West Jordan, UT 84081; Andrew Clinton Hemmert, a citizen of the United States of America, residing at 5364 Kenwood Dr., Murray, UT 84107; Jesse Linton Montgomery, a citizen of the United States of America, residing at 795 E. 200 S., Centerville, UT 84014; Robert John Crisp, a citizen of the United States of America, residing at 6610 S. Juliet Way, Cottonwood Heights, UT 84121; Kendall A. Rasband, a citizen of the United States of America, residing at 3670 South 2700 East, Salt Lake City, UT 84109; Elizabeth Mary Ott Crowther, a citizen of the United States of America, residing at 2806 E. Willow Hills Dr., Sandy, UT 84093; and Cheryl Lynn Baird, a citizen of the United States of America, residing at 1549 S. 1600 E., Salt Lake City, UT 84105;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **SAMPLE PREPARATION FOR DIFFICULT SAMPLE TYPES**, for which U.S. Patent Application No.:

15/340,612 was filed on November 1, 2016; and U.S. Provisional Application Serial No. 62/249,592 was filed on November 2, 2015 in the United States Patent and Trademark Office;

WHEREAS, **BioFire Diagnostics**, **LLC**, a corporation of the State of Delaware, having a principal place of business at 390 Wakara Way, Salt Lake City, Utah 84108, hereinafter referred to as assignee, is desirous of acquiring our entire right, title and interest in and to the invention as described in said applications, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto said assignee, its successors and assigns, the entire right, title, and interest in and to said invention and applications, and in and to any and all subsequent patent applications which claim the benefit of priority from said applications including regular utility, continuations, and continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereof or therefor,

together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess the entire right, title and interest in and to the invention and applications abovementioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee the entire right and title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

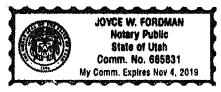
| IN WITNESS WHE | REOF, I have hereunte set my hand and seal on this $2nd$ day of |
|----------------|---|
| November, 2016 | (SEAL) |
| | Stephanie Ame Thatcher |
| STATE OF UTAH |)) |

COUNTY OF Saltlake

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated,

this 2nd day of November

SEAL My Commission Expires: November 04, 2019



Page 2 of 6

| and a |
|--|
| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 3 rd day of |
| Nevember, 2016. |
| (SEAL) |
| Jeremy Paul Green |
| STATE OF UTAH) |
| STATE OF UTAH) ss: COUNTY OF SALTLAKE |
| |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, |
| this 3rd day of November, 202016 |
| JOYCE W. FORDMAN Notary Public |
| SEAL Notary Public State of Utah |
| My Conners Bricomm. Woods Brown Dex 04, 2019 My Comm. Expires Nov 4, 2019 |
| my comm. Expires not 4, 2019 |
| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of |
| November, 20/6 |
| November, 2016 |
| Erik Wong Huynh (SEAL) |
| |
| STATE OF UTAH) ss: |
| STATE OF UTAH) ss: COUNTY OF Saltlake |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, |
| this 2nd day of November, 2016 |
| |
| Jane W. Fordran |
| Notary Public SEAL |
| My Commission Expires: November 04, 2019 |
| |
| JOYCE W. FORDMAN Notary Public |
| State of Utah Comm. No. 685831 |
| My Comm. Expires Nov 4, 2019 |

Page 3 of 6

| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this day of |
|--|
| Morauler, 2016. Och Claifor Helling |
| Andrew Clinton Hemmert |
| STATE OF UTAH) |
| COUNTY OF Saltlake) ss: |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, |
| this 2nd dayof Allembar 2016 |
| SEAL STATE OF COMM. Expires Nov 4, 2019 JOYCE W. FORDMAN Notary Public State of Uteh Comm. No. 685831 My Comm. Expires Nov 4, 2019 Notary Public |
| My Commission Expires: November 04, 2019 |
| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of |
| November 2016 |
| (SEAL) |
| Jesse Linton Montgomery |
| STATE OF UTAH) |
| COUNTY OF Saltlake) ss: |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, |
| this 2nd day of November, 2016 |
| SEAL SEAL |
| My Commission Expires: November 04, 2019 |
| JOYCE W. FORDMAN Notery Public State of Utah Comm. No. 685631 |

Page 4 of 6

| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2 nd day of |
|--|
| November, 2016. |
| Robert John Crisp (SEAL) |
| STATE OF UTAH) |
| COUNTY OF Saltlake) ss: |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 2nd day of 10 vember, 2016 |
| JOYCE W. FORDMAN Notary Public State of Utah Confirm., No. 685831 My Commission Expiresay control tribus Aug. 2018 CH. 2019 |
| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2rd day of November, 2016 Kendall A Rasband (SEAL) |
| STATE OF UTAH) SS: COUNTY OF Saltlake |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 2^{nd} day of November, 2016 |
| SEAL Notary Public |
| My Commission Expires: November 04, 2019 |
| JOYCE W. FORDMAN Notary Public State of Utah Comm. No. 685831 My Comm. Expires Nov 4, 2019 Page 5 of 6 |

| IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 3 day of November, 20 16 Elizabeth Mary Ott Crowther (SEAL) |
|---|
| STATE OF UTAH) ss: |
| STATE OF UTAH) ss: COUNTY OF SALT LAKE) |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 3rd day of November, 2016 |
| SEAL My Complission Expire Nov 4 2019 JOYCE W. FORDMAN Notary Public Riotary Public Notary Public Notary Public |
| IN WITNESS WHEREOF, Lhave hereunto set my hand and seal on this 3 day of November, 2016. Cheryl Lynn Baird (SEAL) |
| STATE OF UTAH) ss: COUNTY OF Selfleke |
| Before me personally appeared the person described in and who executed the foregoing |
| instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 03 day of November, 2016 |
| SEAL My Commission Expires: November 04, 2019 |
| JOYCE W. FORDMAN Notary Public State of Utah Comm. No. 685831 My Comm. Expires Nov 4, 2019 Page 6 of 6 |

PATENT REEL: 040231 FRAME: 0374

RECORDED: 11/04/2016