

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3142904

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS (RECORDED 9/5/12 AT REEL/FRAAME 028914/0592)

**CONVEYING PARTY DATA**

Name	Execution Date
ATHYRIUM OPPORTUNITIES FUND (A) LP, AS ADMINISTRATIVE AGENT	11/06/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	BIOFIRE DIAGNOSTICS, INC.
<b>Street Address:</b>	390 WAKARA WAY
<b>City:</b>	SALT LAKE CITY
<b>State/Country:</b>	UTAH
<b>Postal Code:</b>	84104

**PROPERTY NUMBERS Total: 29**

Property Type	Number
Patent Number:	6635427
Patent Number:	6730501
Patent Number:	7118867
Patent Number:	7297484
Patent Number:	7373253
Patent Number:	7387887
Patent Number:	7456281
Patent Number:	7582429
Patent Number:	7630837
Patent Number:	7785776
Patent Number:	7803551
Patent Number:	8093002
Application Number:	10478453
Application Number:	10512255
Application Number:	11931174
Application Number:	12515123
Application Number:	11913120
Application Number:	12530052
Application Number:	12467654
Application Number:	13132856

**PATENT**

Property Type	Number
Application Number:	13128289
Application Number:	90012369
Application Number:	12954478
Application Number:	13299040
Application Number:	13330790
Application Number:	13415240
Application Number:	13465364
Application Number:	61558113
Application Number:	61625849

**CORRESPONDENCE DATA**

**Fax Number:** (919)286-8199

*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.*

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**Correspondent Name:** MOORE & VAN ALLEN PLLC

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**Address Line 2:** SUITE 400

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<b>ATTORNEY DOCKET NUMBER:</b>	036251.007
<b>NAME OF SUBMITTER:</b>	JOHN E. SLAUGHTER, III
<b>SIGNATURE:</b>	/jes/
<b>DATE SIGNED:</b>	12/11/2014

**Total Attachments: 4**

- source=Termination and Release of Security Interest in Patents - BioFire (0592)#page1.tif
- source=Termination and Release of Security Interest in Patents - BioFire (0592)#page2.tif
- source=Termination and Release of Security Interest in Patents - BioFire (0592)#page3.tif
- source=Termination and Release of Security Interest in Patents - BioFire (0592)#page4.tif

**TERMINATION AND RELEASE OF SECURITY INTEREST  
IN PATENTS**

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS**, dated as of November 6, 2014 ("Release"), is made by **ATHYRIUM OPPORTUNITIES FUND (A) LP**, a Delaware limited partnership, as Administrative Agent ("Administrative Agent") in favor of **BIOFIRE DIAGNOSTICS, INC.**, a Delaware corporation ("Grantor").

**WHEREAS**, pursuant to that certain Security Agreement dated as of September 5, 2012 (as amended, restated, supplemented, modified, extended, renewed or replaced from time to time, the "Security Agreement") by and among the Grantors party thereto and the Administrative Agent, each Grantor granted to the Administrative Agent, for the benefit of the Secured Parties, a continuing security interest in, and a right to set off against, any and all right, title and interest of such Grantor in, to, and under all the Patents, Patent Licenses, and Proceeds of the foregoing;

**WHEREAS**, pursuant to the Security Agreement, Grantor executed and delivered to Administrative Agent, for the benefit of the Secured Parties, the Notice of Grant of Security Interest in Patents dated as of September 5, 2012 ("Notice"); and

**WHEREAS**, the Notice was recorded at the United States Patent and Trademark Office ("USPTO") on September 5, 2012 at Reel 028914 Frame 0592.

**NOW THEREFORE**, in consideration of the mutual promises and undertakings set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and with the intention of being legally bound hereby, Administrative Agent, on behalf of the Secured Parties, and Grantor agree as follows:

**SECTION 1. Defined Terms.** All capitalized terms used herein but not otherwise defined herein have the meanings given to them in the Security Agreement or Notice.

**SECTION 2. Termination and Release.** Administrative Agent, on behalf of the Secured Parties, without representation, warranty, or recourse, hereby:

(a) terminates, cancels, discharges, and releases the mortgage, pledge, and hypothecation and lien on and security interest in and to the right, title, and interest in, to, and under all the Patents, Patent Licenses, and Proceeds of the foregoing, including, but not limited to, the foregoing listed on Schedule A attached hereto; and

(b) authorizes the recordation of this Release with the USPTO at Grantor's expense.

**SECTION 3. Choice of Law.** This Release shall be governed by and construed in accordance with the laws of the State of Delaware.

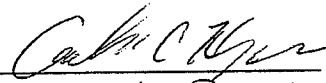
**IN WITNESS WHEREOF**, the Administrative Agent, on behalf of the Secured Parties, has caused this Termination and Release of Security Interest in Patents to be duly executed as of the date first set forth above.

ADMINISTRATIVE AGENT:

ATHYRIUM OPPORTUNITIES FUND (A) LP,  
a Delaware limited partnership

By: ATHYRIUM OPPORTUNITIES  
ASSOCIATES LP, its General Partner

By: ATHYRIUM OPPORTUNITIES  
ASSOCIATES GP LLC, the General  
Partner of Athyrium Opportunities  
Associates LP

By:   
Title: Senior Vice President  
Date: 11/6/2014

**Schedule A**

**Issued Patents**

<b>Title</b>	<b>Patent No.</b>	<b>Issue Date</b>
SINGLE-LABELED OLIGONUCL-EOTIDE PROBES FOR HOMOGENEOUS NUCLEIC ACID SEQUENCE ANALYSIS	6635427	10/21/03
MULTI-TEST ANALYSIS OF REAL-TIME NUCLEIC ACID AMPLIFICATION	6730501	05/04/04
QUANTITATIVE MULTIPLEX PCR WITH HIGH DYNAMIC RANGE	7118867	10/10/06
CHARACTERIZ-ATION OF SINGLE STRANDED NUCLEIC ACIDS BY MELTING ANALYSIS OF SECONDARY STRUCTURE USING DOUBLE STRAND-SPECIFIC NUCLEIC ACID DYE	7297484	11/20/07
MULTI-TEST ANALYSIS OF REAL-TIME NUCLEIC ACID AMPLIFICATION	7373253	05/13/08
NUCLEIC ACID MELTING ANALYSIS WITH SATURATION DYES	7387887	06/17/08
NUCLEIC ACID MELTING ANALYSIS WITH SATURATION DYES	7456281	11/25/08
AMPLICON MELTING ANALYSIS WITH SATURATION DYES	7582429	09/01/09
REAL-TIME GENE QUANTIFICATION WITH INTERNAL STANDARDS	7630837	12/08/09
GENOTYPING BY AMPLICON MELTING CURVE ANALYSIS	7785776	08/31/10
AMPLICON MELTING ANALYSIS WITH SATURATION DYES	7803551	09/28/10
AMPLICON MELTING ANALYSIS WITH SATURATION DYES	8093002	01/10/12

**Patent Applications**

<b>Title</b>	<b>Appl. No.</b>	<b>Filing Date</b>
THERMAL CYCLING SYSTEM AND METHOD OF USE	10478453 20040209331	11/21/03
SAMPLE WITHDRAWAL AND DISPENSING DEVICE	10512255 20050226772	10/21/04
NUCLEIC ACID MELTING ANALYSIS WITH SATURATION DYES	11931174 20090117553	10/31/07
HIGH DENSITY SELF-CONTAINED BIOLOGICAL ANALYSIS	12515123 20100056383	05/15/09
SELF-CONTAINED BIOLOGICAL ANALYSIS	11913120 20100105029	09/16/09
PRIMERS FOR MELTING ANALYSIS	12530052 20100196890	04/01/10
RAPID EPIDEMIOLOGIC TYPING OF BACTERIA	12467654 20110076674	05/18/09
SYSTEMS AND METHODS FOR AUTOMATED MELTING CURVE ANALYSIS	13132856 20110238323	06/03/11

ALLELE AMPLIFICATION BIAS	13128289 20110318736	07/29/11
SYSTEM FOR FLUORESCENCE MONITORING	90012369	06/21/12
ORGANISM IDENTIFICATION PANEL (Unavailable on USPTO)	12954478	10/02/09
AMPLICON MELTING ANALYSIS WITH SATURATION DYES (Unavailable on USPTO)	13299040	11/17/11
THERMAL CYCLER CALIBRATION DEVICE AND RELATED METHODS (Unavailable on USPTO)	13330790	12/20/11
AMPLICON MELTING ANALYSIS WITH SATURATION DYES (Unavailable on USPTO)	13415240	03/08/12
ANNEALING CURVE ANALYSIS Unavailable on USPTO	13465364	05/07/12
LOADING VIAL (Unavailable on USPTO)	61558113	11/10/11
MICROSPOTTING DEVICE (Unavailable on USPTO)	61625849	04/18/12