PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Neil Reginald Beer	10/05/2011
William J. Benett	10/06/2011
James M. Frank	10/06/2011
Joshua R. Deotte	10/06/2011
Christopher Spadaccini	10/04/2011

RECEIVING PARTY DATA

Name:	Lawrence Livermore National Security, LLC	
Street Address:	Lawrence Livermore National Laboratory	
Internal Address:	7000 East Avenue, L-703	
City:	Livermore	
State/Country:	CALIFORNIA	
Postal Code:	94551-9234	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13267767

CORRESPONDENCE DATA

Fax Number: (650)938-5200 Phone: 415-875-2405

Email: dchevalier@fenwick.com

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

via US Mail.

Correspondent Name: Christian J. Ullsperger Address Line 1: 801 California Street

Address Line 4: Mountain View, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER: 26303-18606 US

PATENT

REEL: 027028 FRAME: 0505

501684027

NAME OF SUBMITTER:	Christian J. Ullsperger
Total Attachments: 6 source=18606_Assignment#page1.tif source=18606_Assignment#page2.tif source=18606_Assignment#page3.tif source=18606_Assignment#page4.tif source=18606_Assignment#page5.tif source=18606_Assignment#page6.tif	

PATENT REEL: 027028 FRAME: 0506

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 **Lawrence Livermore National Security, LLC**, having a place of business at Lawrence Livermore National Laboratory, 7000 East Avenue, L-703, Livermore, California, 94551-9234 ("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"):
 - Application No. 13/267, 767 , entitled "Methods And Compositions For Rapid Thermal Cycling" filed on October 6, 2011 , which claims priority from the following provisional applications: U.S. Provisional Application No. 61/390,383, filed October 6, 2010, U.S. Provisional Application No. 61/390,415, filed October 6, 2010, U.S. Provisional Application No. 61/390,425, filed October 6, 2010, U.S. Provisional Application No. 61/390,433, filed October 6, 2010, U.S. Provisional Application No. 61/390,441, filed October 6, 2010, U.S. Provisional Application No. 61/390,452, filed October 6, 2010, and U.S. Provisional Application No. 61/512,393, filed July 27, 2011.
- 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 which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which 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

Attorney Docket No: IL-12328 (26303-18606)

1 of 3

Τ	itl	e:
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Methods And Compositions For Rapid Thermal Cycling

Filed:
Application No.:

October 6, 2011 13/267,767

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.

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 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	Date of Signature
Reston	10 5 ,2011
Neil Reginald Beer	
Name and Signature	Date of Signature
	, 2011
William J. Benett	
Name and Signature	Date of Signature
	, 2011
James M. Frank	
Name and Signature	Date of Signature
	, 2011
Joshua R. Deotte	

Attorney Docket No: IL-12328 (26303-18606)

2 of 3

Title: Filed:

Application No.:

Methods And Compositions For Rapid Thermal Cycling October 6, 2011

13/267,767

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Name and Signature	Date of Signature
	, 2011
Neil Reginald Beer	
Name and Signature	Date of Signature
Wight I Sm. William J. Benett	10/6/ ,2011
Name and Signature	Date of Signature
	, 2011
James M. Frank	
Name and Signature	Date of Signature
	, 2011
Joshua R. Deotte	

Attorney Docket No: IL-12328 (26303-18606)

2 of 3

Title: Filed: Methods And Compositions For Rapid Thermal Cycling

October 6, 2011

Application No.:

13/267,767

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Name and Signature	Date of Signature
N. I.D I.I.D.	, 2011
Neil Reginald Beer	
Name and Signature	Date of Signature
	, 2011
William J. Benett	
Name and Signature	Date of Signature
James M. Frank	October 6, 2011.
Name and Signature	Date of Signature
	, 2011
Joshua R. Deotte	

Attorney Docket No: IL-12328 (26303-18606)

2 of 3

Title: Methods And Compositions For Rapid Thermal Cycling
October 6, 2011
Application No.: 13/267, 767

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Name and Signature	Date of Signature
	,2011
Neil Reginald Beer	
Name and Signature	Date of Signature
	, 2011
William J. Benett	
Name and Signature	Date of Signature
	,2011
James M. Frank	
Name and Signature	Date of Signature
godina Decitte	October 6,2011
Joshua R. Deotte	

Attorney Docket No: IL-I2328 (26303-18606)

2 of 3

Title:
Filed.

Methods And Compositions For Rapid Thermal Cycling October 6, 2011

Application No.:

13/267,767

Name and Signature

Christopher Spadaccine

Date of Signature

, 2011

Attorney Docket No: IL-12328 (26303-18606)

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26303/18606/DOCS/2514057.1

PATENT REEL: 027028 FRAME: 0512

RECORDED: 10/06/2011