

FORM PTO-1595 (modified)

U.S. DEPARTMENT OF COMMERCE

(Rev. 6-93)

# RECORDATION FORM COVER SHEET PATENTS ONLY

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Arne BALLANTINE October 16, 2009  
 Virpaul BAINS October 16, 2009  
 Kirsten BURPEE October 9, 2009  
 Brent CHELDELIN October 16, 2009  
 David EDMONSTON October 9, 2009  
 William THAYER October 16, 2009  
 David TREVISAN October 9, 2009  
 Swaminathan VENKATARAMAN October 19, 2009

Additional conveying party(ies) attached? **NO**

2. Name and address of receiving party(ies):

**BLOOM ENERGY CORPORATION**  
 1252 Orleans Drive  
 Sunnyvale, California 94089-1137

Additional name(s) & address(es) attached? **NO**

3. Nature of conveyance:  
**ASSIGNMENT**

Execution Date:  
**See above dates**

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is:

A. Patent Application Number(s):  
**12/458,355**

B. Patent Number(s):

Additional numbers attached? **NO**

5. Name and address of party to whom correspondence concerning document should be mailed:

**Leon Radomsky**  
**FOLEY & LARDNER LLP**  
**3000 K Street, N.W.**  
**Suite 600**  
**Washington, D.C. 20007-5143**

6. Total number of applications/patents involved: **1**

7. Total fee (37 C.F.R. § 3.41): **\$40.00**

Check Enclosed  
 Authorized to be charged to credit card  
 Authorized to be charged to deposit account

8. Payment Information

a. Credit Card Last 4 Numbers **5941**  
 Expiration Date **11/30/2011**

b. Deposit account number **19-0741**  
 Authorized User Name

**DO NOT USE THIS SPACE**

9. Statement and signature:  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.*

**Leon Radomsky**

**10/30/09**

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **7**

OP \$40.00 12458355

**PATENT**

**REEL: 023459 FRAME: 0564**

**700421941**

Atty. Dkt. No. 079173-0383

**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

BLOOM ENERGY CORPORATION  
1252 Orleans Drive  
Sunnyvale, California 94089-1137

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

**FUEL CELL SYSTEM WITH QUICK CONNECT COMPONENTS**

as set forth in this United States Patent Application

*check one*     executed concurrently herewith,  
                   executed on \_\_\_\_\_,  
                   Serial No. 12/458,355 Filed 07/08/2009

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

Atty. Dkt. No. 079173-0383

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Atty. Dkt. No. 079173-0383

Executed this 16th day of October, 2009.

ARNE BALLANTINE

State of California

County of Santa Clara

On this 16 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared ARNE BALLANTINE, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature]

My Commission Expires: 3/9/2013



(Seal)

Executed this 16 day of October, 2009.

VIRPAUL BAINS

State of California

County of Santa Clara

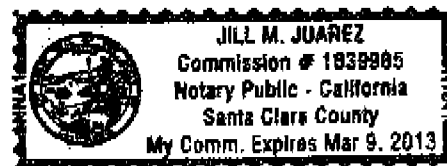
On this 16 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared VIRPAUL BAINS, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature]

My Commission Expires: 3/9/2013



(Seal)

Atty. Dkt. No. 079173-0383

Executed this 9 day of October, 2009.

Kirsten Burpee  
KIRSTEN BURPEE

State of California

County of Santa Clara

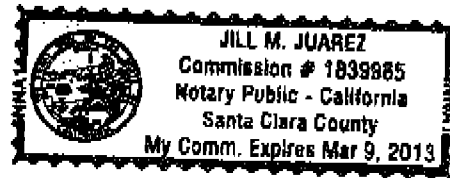
On this 9 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared KIRSTEN BURPEE, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Juarez

My Commission Expires: 3/9/2013



(Seal)

Executed this 16 day of October, 2009.

Brent Cheldelin  
BRENT CHELDELIN

State of California

County of Santa Clara

On this 16 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared BRENT CHELDELIN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Juarez

My Commission Expires: 3/9/2013



(Seal)

Atty. Dkt. No. 079173-0383

Executed this 9 day of October, 2009.

[Signature]  
DAVID EDMONSTON

State of California

County of Santa Clara

On this 9 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared DAVID EDMONSTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]

My Commission Expires: 3/9/2013



(Seal)

Executed this 16 day of October, 2009.

[Signature]  
WILLIAM THAYER

State of California

County of Santa Clara

On this 16 day of October, 2009, before me, Jill Juarez (a notary public in and for said county), personally appeared WILLIAM THAYER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]

My Commission Expires: 3/9/2013



(Seal)

Atty. Dkt. No. 079173-0383

Executed this 9 day of OCTOBER, 2009

David Trevisan  
DAVID TREVISAN

State of California

County of Santa Clara

On this 9 day of OCTOBER, 2009 before me, Jill Juarez (a notary public in and for said county), personally appeared DAVID TREVISAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jill Juarez

My Commission Expires: 3/9/2013



(Seal)

Executed this 19 day of OCTOBER, 2009

Swaminathan Venkataraman  
SWAMINATHAN VENKATARAMAN

State of California

County of Santa Clara

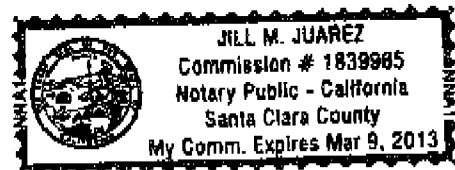
On this 19 day of OCTOBER, 2009 before me, Jill Juarez (a notary public in and for said county), personally appeared SWAMINATHAN VENKATARAMAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jill Juarez

My Commission Expires: 3/9/2013



(Seal)