

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	<b>CORRECTIVE ASSIGNMENT</b>
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the spelling of the 3rd Assignor's name, which should read: Muralidhara Ramakrishna Shyamavadhani previously recorded on Reel 028783 Frame 0983. Assignor(s) hereby confirms the spelling of the 3rd Assignor's name as: Muralidhara Ramakrishna Shyamavadhani.

  

**CONVEYING PARTY DATA**

Name	Execution Date
Arne Ballantine	07/14/2012
Ranganathan Gurunathan	07/14/2012
Muralidhara Ramakrishna Shyamavadhani	08/06/2012
Chad Pearson	07/16/2012
William Thayer	07/16/2012
KR Sridhar	07/19/2012

  

**RECEIVING PARTY DATA**

<b>Name:</b>	Bloom Energy Corporation
<b>Street Address:</b>	1299 Orleans Drive
<b>City:</b>	Sunnyvale
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089-1137

  

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13533496

  

**CORRESPONDENCE DATA**

Fax Number: 7033912901  
 Phone: 703-391-2900  
 Email: ptonotices@marburylaw.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

Correspondent Name: The Marbury Law Group, PLLC  
 Address Line 1: 11800 Sunrise Valley Drive  
 Address Line 2: 15th Floor

OP \$40.00 13533496

Address Line 4: Reston, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:

7917-457

NAME OF SUBMITTER:

Patrick McConville

Total Attachments: 7

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# UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 15, 2012

PTAS

THE MARBURY LAW GROUP, PLLC  
11800 SUNRISE VALLEY DRIVE  
15TH FLOOR  
RESTON, VA 20191

**502024472**

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RECORDATION DATE: 08/14/2012

REEL/FRAME: 028783/0983  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 7917-457

ASSIGNOR:  
BALLANTINE, ARNE

DOC DATE: 07/14/2012

ASSIGNOR:  
GURUNATHAN, RANGANATHAN

DOC DATE: 07/14/2012

ASSIGNOR:  
SHYAMAVADHAMI, MURALIDHARA  
RAMAKRISHNA

DOC DATE: 08/06/2012

ASSIGNOR:  
PEARSON, CHAD

DOC DATE: 07/16/2012

ASSIGNOR:  
THAYER, WILLIAM

DOC DATE: 07/16/2012

ASSIGNOR:  
SRIDHAR, KR

DOC DATE: 07/19/2012

ASSIGNEE:

BLOOM ENERGY CORPORATION  
1299 ORLEANS DRIVE  
SUNNYVALE, CALIFORNIA 94089-1137

APPLICATION NUMBER: 13533496

FILING DATE: 06/26/2012

PATENT NUMBER:

ISSUE DATE:

TITLE: B-SIDE FEED FOR CRITICAL POWER APPLICATIONS

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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**PATENT ASSIGNMENT**

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Arne Ballantine</td><td>07/14/2012</td></tr><tr><td>Ranganathan Gurunathan</td><td>07/14/2012</td></tr><tr><td>Muralidhara Ramakrishna Shyamavadhami</td><td>08/06/2012</td></tr><tr><td>Chad Pearson</td><td>07/16/2012</td></tr><tr><td>William Thayer</td><td>07/16/2012</td></tr><tr><td>KR Sridhar</td><td>07/19/2012</td></tr></tbody></table>	Name	Execution Date	Arne Ballantine	07/14/2012	Ranganathan Gurunathan	07/14/2012	Muralidhara Ramakrishna Shyamavadhami	08/06/2012	Chad Pearson	07/16/2012	William Thayer	07/16/2012	KR Sridhar	07/19/2012	
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**ATTORNEY DOCKET  
NUMBER:**

7917-457

**NAME OF SUBMITTER:**

Patrick McConville

**Signature:**

/pmcconville/

**Date:**

08/14/2012

**Total Attachments: 3**

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**RECEIPT INFORMATION**

**EPAS ID:** PAT2061901  
**Receipt Date:** 08/14/2012  
**Fee Amount:** \$40

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**ASSIGNMENT AND AGREEMENT**

**WHEREAS**, Arne Ballantine, Ranganathan Gurunathan, Muralidhara Ramakrishna Shyamavadhani, Chad Pearson, William Thayer and KR Sridhar (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled *B-Side Feed for Critical Power Applications* for which a provisional application was filed on June 27, 2011, as Application No. 61/501,382, and for which an application for United States Letters Patent was filed on June 26, 2012 as Application No. 13/533,496, and for which a PCT international application was filed on June 26, 2012 as Application No. PCT/US12/44214, and for which an application was filed in the Republic of China on June 26, 2012 as Application No. (not yet available).

**WHEREAS**, Bloom Energy Corporation, having its principal place of business at 1299 Orleans Drive, Sunnyvale, CA 94089-1137; (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

**NOW THEREFORE**, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the 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 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.

**ASSIGNOR HEREBY AGREES** (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives 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, 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 **The Marbury Law Group PLLC** 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 **The Marbury Law Group PLLC** 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.

NAMES AND SIGNATURES OF INVENTOR		
Name: Arne Ballantine	Signature: 	Date: 14 July 2012
Name: Ranganathan Gurunathan	Signature: 	Date: 14 July 2012.
Name: Muralidhara Ramakrishna Shyamavadhani	Signature: 	Date:
Name: Chad Pearson	Signature: 	Date: 7/16/12
Name: William Thayer	Signature: 	Date: 7/16/12
Name: KR Sridhar	Signature: 	Date: 7/19/12



original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, 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.

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NAMES AND SIGNATURES OF INVENTOR		
Name: Arne Ballantine	Signature:	Date:
Name: Ranganathan Gurunathan	Signature:	Date:
Name: Muralidhara Ramakrishna Shyamavadhani	Signature: <i>S.R. Muralidhara</i>	Date: <i>6<sup>th</sup> - Aug - 2012</i>
Name: Chad Pearson	Signature:	Date:
Name: William Thayer	Signature:	Date:
Name: KR Sridhar	Signature:	Date: