

FORM PTO-1595 (modified)

03/19/2010

03-30-2010

DEPARTMENT OF COMMERCE

(Rev 6-93)

RECORDATION FOR  
PATENTS

Patent and Trademark Office

103593237

Copies thereof.

To the Director of the United States Patent and Trademark Office: F.

## 1. Name of conveying party(ies):

Martin JANOUSEK March 16, 2010  
Tad Armstrong March 17, 2010  
Dien NGUYEN March 19, 2010  
Ananda H. KUMAR March 23, 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

## 3. Nature of conveyance:

ASSIGNMENT

Execution Date:

See above dates

Additional name(s) &amp; address(es) attached? NO

## 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:

March 16, 17, 19, 12, 2010

A. Patent Application Number(s):

Unassigned

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

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## 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

March 19, 2010

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 17

03/22/2010 HVUONG1 00000029 12659742

06 FC:8021

40.00 0P

PATENT

REEL: 024157 FRAME: 0521

**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

**CRACK FREE SOFC ELECTROLYTE**

as set forth in this United States Patent Application

*check one*     ☒ [ X ] executed concurrently herewith,  
                  ☐ [   ] executed on \_\_\_\_\_,  
                  ☐ [   ] Serial No. Unassigned    Filed \_\_\_\_\_

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.

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.

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Executed this 16 day of March, 2010.



MARTIN JANOUSEK

State of \_\_\_\_\_)

County of \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_ (a notary public in and for said county), personally appeared MARTIN JANOUSEK, 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 \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

TAD ARMSTRONG

State of \_\_\_\_\_)

County of \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_ (a notary public in and for said county), personally appeared TAD ARMSTRONG, 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.

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(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
DIEN NGUYEN

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
ANANDA H. KUMAR

State of \_\_\_\_\_)

County of \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, \_\_\_\_\_ (a notary public in and for said county), personally appeared ANANDA H. KUMAR, 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.

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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

**CRACK FREE SOFC ELECTROLYTE**

as set forth in this United States Patent Application

*check one*      ☒ [ X ] executed concurrently herewith,  
                         ☐ [   ] executed on \_\_\_\_\_,  
                         ☐ [   ] Serial No. Unassigned    Filed \_\_\_\_\_

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Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

MARTIN JANOUSEK

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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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 \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this 17 day of MARCH, 2010.

TAD ARMSTRONG

State of \_\_\_\_\_)

County of \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, \_\_\_\_\_ (a notary public in and for said county), personally appeared TAD ARMSTRONG, 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.

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Signature \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
DIEN NGUYEN

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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County of \_\_\_\_\_)

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                  ☐ [   ] Serial No. Unassigned    Filed \_\_\_\_\_

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\_\_\_\_\_  
MARTIN JANOUSEK

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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WITNESS my hand and official seal.

Signature \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)

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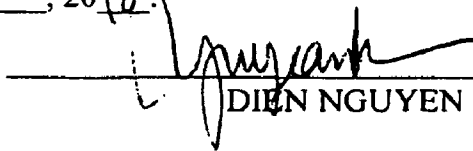
WITNESS my hand and official seal.

Signature \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this 19<sup>th</sup> day of March, 2018.

  
DIEN NGUYEN

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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Signature \_\_\_\_\_

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ANANDA H. KUMAR

State of \_\_\_\_\_)

County of \_\_\_\_\_)

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*check one*     ☐ executed concurrently herewith,  
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                  ☒ Serial No. \_\_\_\_\_ Filed March 20, 2009

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Signature \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this 23 day of March, 2009.

Ananda H. Kumar  
ANANDA H. KUMAR

State of California)

County of Santa Clara

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_ (a notary public in and for said county), personally appeared ANANDA H. KUMAR, 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.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

(Seal)