

# 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Alexander Lidow</td><td>12/05/2011</td></tr> <tr><td>Jianjun Cao</td><td>12/05/2011</td></tr> <tr><td>Robert Beach</td><td>12/06/2011</td></tr> <tr><td>Johan Strydom</td><td>12/06/2011</td></tr> <tr><td>Alana Nakata</td><td>12/06/2011</td></tr> <tr><td>Guang Y. Zhao</td><td>12/05/2011</td></tr> </tbody> </table>		Name	Execution Date	Alexander Lidow	12/05/2011	Jianjun Cao	12/05/2011	Robert Beach	12/06/2011	Johan Strydom	12/06/2011	Alana Nakata	12/06/2011	Guang Y. Zhao	12/05/2011
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<b>RECEIVING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"><b>Name:</b></td><td>Efficient Power Conversion Corporation</td></tr> <tr><td><b>Street Address:</b></td><td>909 N. Sepulveda Boulevard</td></tr> <tr><td><b>Internal Address:</b></td><td>Suite 230</td></tr> <tr><td><b>City:</b></td><td>El Segundo</td></tr> <tr><td><b>State/Country:</b></td><td>CALIFORNIA</td></tr> <tr><td><b>Postal Code:</b></td><td>90245</td></tr> </table>		<b>Name:</b>	Efficient Power Conversion Corporation	<b>Street Address:</b>	909 N. Sepulveda Boulevard	<b>Internal Address:</b>	Suite 230	<b>City:</b>	El Segundo	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	90245		
<b>Name:</b>	Efficient Power Conversion Corporation														
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<b>PROPERTY NUMBERS Total: 1</b>															
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<b>CORRESPONDENCE DATA</b>															
<p>Fax Number: (202)420-2201</p> <p>Phone: 202-420-2200</p> <p>Email: howardk@dicksteinshapiro.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Dickstein Shapiro LLP</p> <p>Address Line 1: 1825 Eye Street, NW</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20006</p>															
<b>ATTORNEY DOCKET NUMBER:</b>	E0101.0016/P016														

OP \$40.00 13325735

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**PATENT**  
 REEL: 027391 FRAME: 0378

NAME OF SUBMITTER:

Stephen A. Soffen

**Total Attachments: 12**

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**ASSIGNMENT BY INVENTORS**

**THIS ASSIGNMENT**, made by Alexander Lidow; Jianjun Cao; Robert Beach; Johan Strydom; Alana Nakata; and Guang Y. Zhao (hereinafter referred to as Assignors), residing at 135 Topsail Mall, Marina Del Ray, California 90292; 4134 Pacific Coast Highway, Unit 135, Torrance, California 90505-8712; 2746 Brookhill Avenue, La Crescenta, California 91214; 3303 Duke Court, Santa Clara, California 95051; 611 N. Irena Avenue, Unit M, Redondo Beach, California 90277-2968; and 24065 Ocean Avenue, #106, Torrance, California 90505, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in SEMICONDUCTOR DEVICES WITH BACK SURFACE ISOLATION, executed on even date herewith and filed on December 14, , 2011 as application Serial No. 13/325,735 ; and

**WHEREAS**, Efficient Power Conversion Corporation, a Corporation organized under and pursuant to the laws of Delaware having its principal place of business at 909 N. Sepulveda Boulevard, Suite 230, El Segundo, California 90245 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, in the provisional application, and in the non-provisional application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said applications, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations

and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property including all rights of priority, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and applications for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters

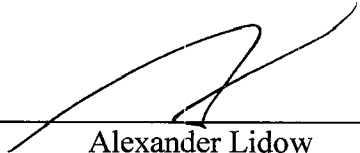
Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which 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:

DICKSTEIN SHAPIRO LLP

All practitioners at Customer Number 24998

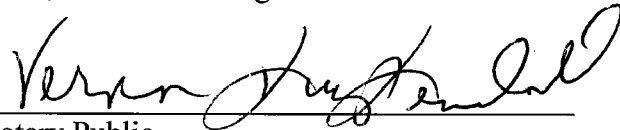
**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

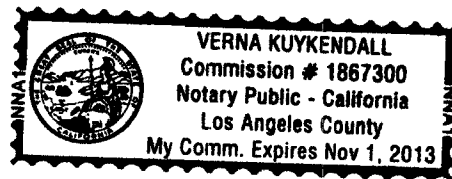
  
\_\_\_\_\_  
Alexander Lidow

Date: DECEMBER 5, 2011

United States of America )  
State of CALIFORNIA ) ss.:  
County of LOS ANGELES )

On this 5<sup>TH</sup> day of DECEMBER, 2011, before me  
personally came Alexander Lidow, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
\_\_\_\_\_  
Notary Public



Jianjun Cao

Jianjun Cao

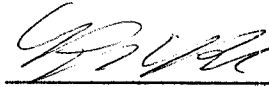
Date: DECEMBER 5, 2011

United States of America  
State of CALIFORNIA ) ss.:  
County of LOS ANGELES )

On this 5TH day of DECEMBER, 2011, before me  
personally came Jianjun Cao, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Verna Kuykendall  
Notary Public





Robert Beach

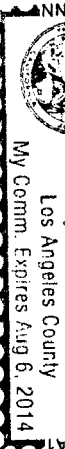
Date: Dec. 6, 2011

United States of America )  
State of California ) ss.:  
County of Los Angeles )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
personally came Robert Beach, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

**See Attached**

\_\_\_\_\_  
Notary Public



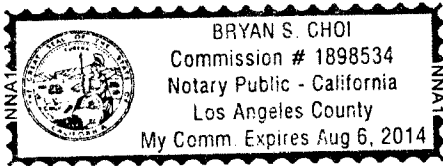
# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Los Angeles

On Dec. 06, 2011 before me, Bryan S. Choi, a notary public  
Date Here Insert Name and Title of the Officer

personally appeared Robert Beach  
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Place Notary Seal Above

Signature

Signature of Notary Public

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Description of Attached Document

Title or Type of Document: Assignment By Inventor

Document Date: 12-06-11

Number of Pages: 2

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: Robert Beach

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_


RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

 12/6/11  
Johan Strydom

Date: \_\_\_\_\_

United States of America )  
State of \_\_\_\_\_ ) ss.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
personally came \_\_\_\_\_ Johan Strydom \_\_\_\_\_, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

\_\_\_\_\_  
Notary Public

→california Acknowledgement Attached

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On 12/6/11 before me, Aman Kaur (Notary Public)

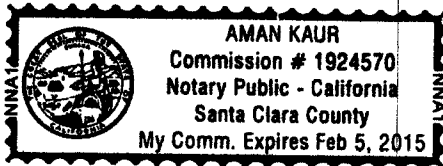
personally appeared Johan Jeerd Strydom-x-

- x -

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.



Place Notary Seal and/or Stamp Above

Signature: Aman Kaur

Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: Assignment by Inventors (ATTORNEY DOCKET)

Document Date: Dec 6<sup>th</sup> 2011 Number of Pages: 1

Signer(s) Other Than Named Above: - x -

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER

Top of thumb here

Signer's Name: \_\_\_\_\_

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER

Top of thumb here

Alana M. Nakata Dec 6, 2011  
Alana Nakata

Date: \_\_\_\_\_

United States of America )  
State of \_\_\_\_\_ ) ss.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
personally came \_\_\_\_\_ Alana Nakata \_\_\_\_\_, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

\_\_\_\_\_  
Notary Public

->California Acknowledgement Attached

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

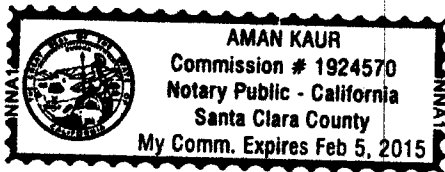
County of Santa Clara

On 6<sup>th</sup> Dec 2011 before me, Aman Kaur (Notary Public)  
Date Here Insert Name and Title of Officer

personally appeared Alana Mitsue Nakata -x-  
Name(s) of Signer(s)

- x -

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in his/her/~~their~~ authorized capacity(ies), and that by his/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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: Aman Kaur

Signature of Notary Public

Place Notary Seal and/or Stamp Above

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Description of Attached Document

Title or Type of Document: Assignment by Inventors (Attorney Docket)

Document Date: Dec 6<sup>th</sup> 2011 Number of Pages: 1

Signer(s) Other Than Named Above: -x-

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_ Signer's Name: \_\_\_\_\_

☐ Corporate Officer — Title(s): \_\_\_\_\_ ☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Individual ☐ Individual

☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact ☐ Attorney in Fact

☐ Trustee ☐ Trustee

☐ Guardian or Conservator ☐ Guardian or Conservator

☐ Other: \_\_\_\_\_ ☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_ Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

*Guang Y. Zhao*

Guang Y. Zhao

Date: DECEMBER 5, 2011

United States of America )  
State of CALIFORNIA ) ss.:  
County of LOS ANGELES )

On this 5<sup>TH</sup> day of DECEMBER, 2011, before me  
personally came Guang Y. Zhao, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

*Verna Kuykendall*  
Notary Public

