

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Matthew Miller</td> <td>11/09/2012</td> </tr> <tr> <td>Michael V. Spangler</td> <td>11/09/2012</td> </tr> <tr> <td>Barry Wemp</td> <td>11/09/2012</td> </tr> <tr> <td>E. Wayne Osborne</td> <td>11/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Matthew Miller	11/09/2012	Michael V. Spangler	11/09/2012	Barry Wemp	11/09/2012	E. Wayne Osborne	11/12/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>REC Silicon Inc</td> </tr> <tr> <td>Street Address:</td> <td>3322 Road N NE</td> </tr> <tr> <td>City:</td> <td>Moses Lake</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98837-9505</td> </tr> </table>		Name:	REC Silicon Inc	Street Address:	3322 Road N NE	City:	Moses Lake	State/Country:	WASHINGTON	Postal Code:	98837-9505
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 5035955301  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 503-595-5300</p> <p>Email: maryjane.claridge@klarquist.com</p> <p>Correspondent Name: Gillian Gardner, Klarquist Sparkman, LLP</p> <p>Address Line 1: 121 SW Salmon St., Suite 1600</p> <p>Address Line 2: One World Trade Center</p> <p>Address Line 4: Portland, OREGON 97204</p>											
ATTORNEY DOCKET NUMBER:	4550-87399-01										
NAME OF SUBMITTER:	Gillian Gardner										
Total Attachments: 5											

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## ASSIGNMENT

WHEREAS, we, Matthew Miller, of Moses Lake, WA, Michael V. Spangler, of Soap Lake, WA, Barry Wemp, of Moses Lake, WA, and E. Wayne Osborne, of Moses Lake, WA, have invented a certain invention, as described in the following patent application:

U.S. Patent Application No. 13/670,200, filed on November 6, 2012, entitled "PROBE ASSEMBLY FOR A FLUID BED REACTOR," which application is referred to as "the patent application."

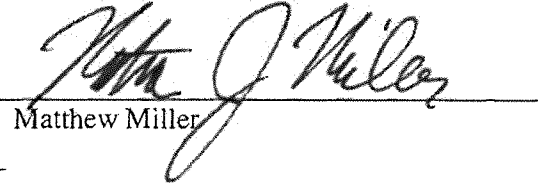
WHEREAS, REC Silicon Inc, a corporation organized under the laws of the State of Delaware, having a place of business at 3322 Road N NE, Moses Lake WA 98837-9505, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Matthew Miller, Michael V. Spangler, Barry Wemp, and E. Wayne Osborne, hereby sell, assign, and transfer to REC Silicon Inc, the full and exclusive right, title, and interest in and to said invention, patent application, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, patent application, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by REC Silicon Inc, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to REC Silicon Inc, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid REC Silicon Inc, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to REC Silicon Inc.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.


  
Matthew Miller

At Moses Lake Washington  
(City and State)  
on this 9<sup>th</sup> day of November, 2012.

STATE OF Washington )  
 )  
COUNTY OF grant ) ss.

This 9<sup>th</sup> day of November, 2012, before me personally came the above-named Matthew Miller, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Matthew Miller's own free will for the purpose set forth therein.



  
Notary Public For Grant County Washington  
My commission expires: October 1, 2014

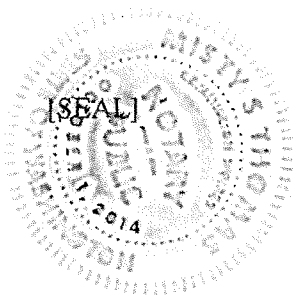
Michael V. Spangler  
Michael V. Spangler

At Moseslake Washington  
(City and State)  
on this 9<sup>th</sup> day of November, 2012.

STATE OF Washington )  
 )  
COUNTY OF grant ) ss.

This 9<sup>th</sup> day of November, 2012, before me personally came the above-named Michael V. Spangler, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Michael V. Spangler's own free will for the purpose set forth therein.

[Signature]  
Notary Public For grant county Washington state  
My commission expires: October 1 2014

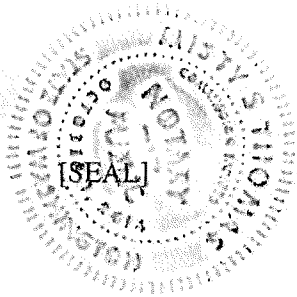


Barry Wemp  
Barry Wemp

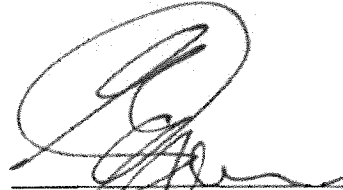
At Moses Lake Washington  
(City and State)  
on this 9<sup>th</sup> day of November, 2012.

STATE OF Washington )  
COUNTY OF Grant ) ss.

This 9<sup>th</sup> day of November, 2012, before me personally came the above-named Barry Wemp, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Barry Wemp's own free will for the purpose set forth therein.




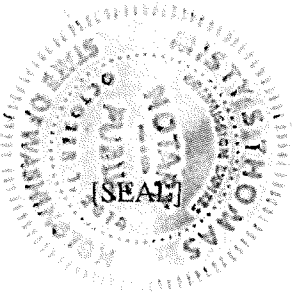
Mary R  
Notary Public For Grant County, Washington  
My commission expires: October 1, 2014

  
\_\_\_\_\_  
E. Wayne Osborne

At Moses lake Washington  
(City and State)  
on this 12<sup>th</sup> day of November, 2012.

STATE OF Washington )  
COUNTY OF grant ) ss.

This 12<sup>th</sup> day of November, 2012, before me personally came the above-named E. Wayne Osborne, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by E. Wayne Osborne's own free will for the purpose set forth therein.

  
\_\_\_\_\_  
Notary Public For grant County Washington State  
My commission expires: October 1, 2014