

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>Kirstin Alberi</td> <td>10/12/2011</td> </tr> <tr> <td>Angelo Mascarenhas</td> <td>10/12/2011</td> </tr> <tr> <td>Mark W. Wanlass</td> <td>10/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	Kirstin Alberi	10/12/2011	Angelo Mascarenhas	10/12/2011	Mark W. Wanlass	10/12/2011		
Name	Execution Date										
Kirstin Alberi	10/12/2011										
Angelo Mascarenhas	10/12/2011										
Mark W. Wanlass	10/12/2011										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Alliance for Sustainable Energy, LLC</td> </tr> <tr> <td>Street Address:</td> <td>15013 Denver West Parkway</td> </tr> <tr> <td>City:</td> <td>Golden</td> </tr> <tr> <td>State/Country:</td> <td>COLORADO</td> </tr> <tr> <td>Postal Code:</td> <td>80401</td> </tr> </table>		Name:	Alliance for Sustainable Energy, LLC	Street Address:	15013 Denver West Parkway	City:	Golden	State/Country:	COLORADO	Postal Code:	80401
Name:	Alliance for Sustainable Energy, LLC										
Street Address:	15013 Denver West Parkway										
City:	Golden										
State/Country:	COLORADO										
Postal Code:	80401										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13878738</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13878738						
Property Type	Number										
Application Number:	13878738										
CORRESPONDENCE DATA											
<p>Fax Number: 3033847499 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 303-384-7575 Email: ipdocketing@nrel.gov Correspondent Name: Alliance for Sustainable Energy, LLC Address Line 1: 15013 Denver West Parkway Address Line 4: Golden, COLORADO 80401</p>											
ATTORNEY DOCKET NUMBER:	NREL 10-64										
NAME OF SUBMITTER:	Nancy Stovall										
Signature:	/Nancy Stovall/										
Date:	04/15/2013										
Total Attachments: 2 source=PCT10-64_Assignment#page1.tif source=PCT10-64_Assignment#page2.tif											

CH \$40.00 13878738

ASSIGNMENT

WHEREAS, we, Kirstin Alberi, Angelo Mascarenhas, and Mark W. Wanlass ("Inventors"), having invented a certain new and useful Invention entitled "**High Bandgap III-V Alloys for High Efficiency Optoelectronics,**" for which a PCT patent application was filed on **October 12, 2011**, receiving International Application No. **PCT/US11/55994**, and further claiming priority to U.S. Provisional Application No. 61/392,406; said application also being identified as **NREL Attorney Docket No. PCT/10-64** ("Invention"), and;

WHEREAS, the Alliance for Sustainable Energy, LLC, of 1617 Cole Boulevard, Golden, CO 80401 USA ("Alliance"), a corporation fully organized and existing under the laws of the State of Delaware is desirous of securing the entire right, title, and interest in and to this Invention in all countries throughout the world, and in and to the application for United States Letters Patent on this Invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that we, the said Inventors, for and in consideration of good and valuable consideration, the receipt of which from Alliance is hereby acknowledged, at the request of Alliance do hereby sell, assign, transfer, and set over unto the Alliance, its lawful successors, legal representatives and assigns, my entire right, title, and interest in and to this invention, provisional application (if any), and this application, and all national stage applications, divisions, continuations and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues or reexaminations thereof, and all rights to claim priority on the basis of any provisional application describing the invention, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent, Invention Registrations and Utility Models that may hereafter be filed for this invention in any foreign country and all Letters Patent, Invention Registrations and Utility Models that may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Alliance, its successors, legal representatives and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, that we are under no obligation to make any assignment of the Invention to any other party, and that we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with Alliance, its successors, legal representatives and assigns, any facts known to us respecting this Invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this Invention in Alliance, its successors, legal representatives and assigns, execute all divisional, continuation, continuation-in-part and reissue applications, make all rightful oaths and generally do everything possible to aid Alliance, its successors, legal representatives and assigns, to obtain, sustain and enforce proper patent protection for this Invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by Alliance, its successors, legal representatives and assigns;

AND, WE HEREBY authorize Alliance, its successors, legal representatives and assigns, to fill in the information above concerning the application number and filing date of the patent application filed for this Invention after the execution of this Assignment if necessary.

IN TESTIMONY WHEREOF, we have hereunto set our hands below.

[Signature] 10/12/11
Kirstin Alberi Date

A. Mascarenhas 10/12/11
Angelo Mascarenhas Date

[Signature] 10/12/11
Mark W. Wanlass Date

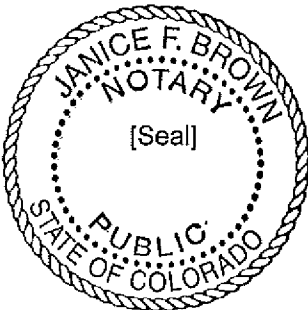
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date set forth hereinafter.

COUNTY OF JEFFERSON)
STATE OF COLORADO)

Before me, a Notary Public in and for the said County and State, personally appeared Kirstin Alberi, Angelo Mascarenhas and Mark W. Wanlass who are known to me to be the persons whose names are subscribed to the foregoing, and acknowledged to me that each executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office, this 12th day of October 2011.

My commission expires: 12/12/2014



[Signature]
Janice F. Brown, Notary Public