

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>Etienne Pihan</td> <td>05/08/2013</td> </tr> <tr> <td>Denis Camel</td> <td>05/08/2013</td> </tr> <tr> <td>Nicolas Coudurier</td> <td>05/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	Etienne Pihan	05/08/2013	Denis Camel	05/08/2013	Nicolas Coudurier	05/08/2013
Name	Execution Date								
Etienne Pihan	05/08/2013								
Denis Camel	05/08/2013								
Nicolas Coudurier	05/08/2013								
RECEIVING PARTY DATA									
Name:	Commissariat a L'energie Atomique et aux Energies Alternatives								
Street Address:	Batiment <<le Ponant D>>,								
Internal Address:	25 rue Leblanc,								
City:	Paris								
State/Country:	FRANCE								
Postal Code:	75015								
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>13988438</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13988438				
Property Type	Number								
Application Number:	13988438								
CORRESPONDENCE DATA									
Fax Number:	2125880500								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(212) 588-0800								
Email:	lyoung@flhlaw.com								
Correspondent Name:	FROMMER LAWRENCE & HAUG								
Address Line 1:	745 FIFTH AVENUE- 10TH FL.								
Address Line 4:	NEW YORK, NEW YORK 10151								
ATTORNEY DOCKET NUMBER:	930141-2043								
NAME OF SUBMITTER:	Ronald R. Santucci								
Signature:	/Ronald R. Santucci/								
Date:	05/20/2013								
Total Attachments: 1 source=01277089#page1.tif									

CH \$40.00 13988438

ASSIGNMENT

FOR valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We,

Etienne PIHAN, Denis CAMEL and Nicolas COUDURIER

being joint inventors of certain improvements in

**HEAT EXCHANGER FOR A SYSTEM FOR SOLIDIFYING AND/OR
CRYSTALLIZING A SEMICONDUCTOR**

hereby assign unto

COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, a corporation existing under the laws of the France and having a place of business at Bâtiment << le Ponant D >>, 25 rue Leblanc - Paris, France 75015, the entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent based upon PCT/EP2011/071290 (U.S. Serial No.) which designates the United States and preparatory to obtaining Letters Patent of the United States therefor and in and to any and all divisions, reissues, continuations and extensions thereof and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term from which said Letters Patent or other rights of protection may be granted, as fully and as entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

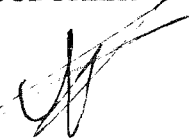
AND WE COVENANT, AGREE AND WARRANT that We have a full and unencumbered title to the invention hereby assigned, and We further covenant and agree that We will, at any time upon request, without further compensation, execute and deliver any and all papers or instruments that in the opinion of the assignee may be necessary or desirable to secure said assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed.

IN WITNESS WHEREOF, We have hereto set our hand and seal this 8 day of
May, 2013.

Etienne PIHAN



Nicolas COUDURIER





Denis CAMEL

CEA028US