

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Rituraj Nandan</td> <td>06/06/2011</td> </tr> <tr> <td>Benjamin Michael Meyer</td> <td>06/06/2011</td> </tr> <tr> <td>Lee William Ferry</td> <td>06/06/2011</td> </tr> </tbody> </table>		Name	Execution Date	Rituraj Nandan	06/06/2011	Benjamin Michael Meyer	06/06/2011	Lee William Ferry	06/06/2011				
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<table border="1"> <tr> <td>Name:</td> <td>MEMC Singapore Pte. Ltd. (UEN200614794D)</td> </tr> <tr> <td>Street Address:</td> <td>8 Cross Street, #11-00</td> </tr> <tr> <td>Internal Address:</td> <td>PWC Building</td> </tr> <tr> <td>City:</td> <td>Singapore</td> </tr> <tr> <td>State/Country:</td> <td>SINGAPORE</td> </tr> <tr> <td>Postal Code:</td> <td>048424</td> </tr> </table>		Name:	MEMC Singapore Pte. Ltd. (UEN200614794D)	Street Address:	8 Cross Street, #11-00	Internal Address:	PWC Building	City:	Singapore	State/Country:	SINGAPORE	Postal Code:	048424
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CORRESPONDENCE DATA													
<p>Fax Number: (314)612-2307</p> <p>Phone: 314-621-5070</p> <p>Email: USpatents@armstrongteasdale.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: Richard A. Schuth (MEMC)</p> <p>Address Line 1: Armstrong Teasdale LLP</p> <p>Address Line 2: 7700 Forsyth Boulevard, Suite 1800</p> <p>Address Line 4: St. Louis, MISSOURI 63105</p>													
ATTORNEY DOCKET NUMBER:	29981-184 (100051.3)												
NAME OF SUBMITTER:	Richard A. Schuth												

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Total Attachments: 5

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ASSIGNMENT

WHEREAS, We Rituraj Nandan of O'Fallon, Missouri, Benjamin Michael Meyer of Defiance, Missouri, and Lee William Ferry of St. Charles, Missouri, have invented an improvement in SYSTEMS FOR INSULATING DIRECTIONAL SOLIDIFICATION FURNACES and have executed an application for a United States patent based thereon filed March 31, 2011, and assigned Serial No. 13/077,068;

AND, WHEREAS, MEMC Singapore Pte. Ltd. (UEN200614794D), a company incorporated under the laws of Singapore and having its registered address at 8 Cross Street, #11-00, PWC Building, Singapore 048424 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole and have executed an application for a United States patent based thereon filed and have executed an application for a United States patent based thereon filed e or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States application or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND We hereby jointly and severally covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, this assignment has been executed by ASSIGNORS and duly authorized representatives of ASSIGNEE.

06/06/2011
Date

Rituraj Nandan
Rituraj Nandan

STATE OF Missouri
COUNTY OF St. Charles

On this 6th day of June, 2011, before me, a Notary Public, personally appeared Rituraj Nandan to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last above written.

Erika Ziadeh
Notary Public

ERIKA ZIADEH
Notary Public - Notary Seal
State of Missouri
Commissioned for St. Charles County
My Commission Expires: Jul. 20, 2014
COMMISSION #10917341

My Commission Expires: July 20, 2014

IN WITNESS WHEREOF, this assignment has been executed by ASSIGNORS and duly authorized representatives of ASSIGNEE.

6/6/11
Date

Benjamin Michael Meyer
Benjamin Michael Meyer

STATE OF Missouri
COUNTY OF St. Charles

On this 6th day of June, 2011, before me, a Notary Public, personally appeared Benjamin Michael Meyer to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last above written.

Erika Ziakeh
Notary Public

My Commission Expires: July 20, 2014



IN WITNESS WHEREOF, this assignment has been executed by ASSIGNORS
and duly authorized representatives of ASSIGNEE.

06/06/11
Date

Lee William Ferry
Lee William Ferry

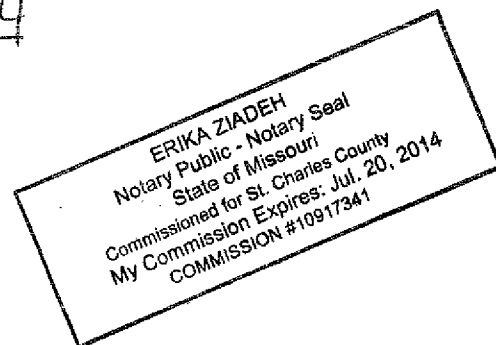
STATE OF Missouri
COUNTY OF St. Charles

On this 6th day of June, 2011, before me, a Notary Public,
personally appeared Lee William Ferry to me known to be the person described in and
who executed the foregoing assignment and acknowledged that he executed same as
his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and
year last above written.

Erika Ziakeh
Notary Public

My Commission Expires: July 20, 2014



For and on behalf of MEMC Singapore Pte. Ltd. (UEN200614794D).

Graham R. Fisher
Graham R. Fisher, Ph.D.
Chief Scientist and
Director of Intellectual Property

6/7/11
Date

STATE OF Missouri
COUNTY OF St. Charles

On this 7th day of June, 2011, before me, a Notary Public,
personally appeared Kenneth H. Hannah, Jr. to me known to be the person described in
and who executed the foregoing assignment and acknowledged that he executed same
as his free act and deed. Graham R. Fisher, Ph.D. 23 6/7/11

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and
year last above written.

Erika Ziakeh
Notary Public

My Commission Expires:

July 20, 2014

