503926115 07/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3972768

SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY	DATA					
			Name	Execution Date		
RICHARD J. PHILLIPS	6			08/10/2015		
SOUBIR BASAK				10/21/2015		
GAURAB SAMANTA				08/10/2015		
RECEIVING PARTY D	ΑΤΑ					
Name:	SUNE	SUNEDISON SEMICONDUCTOR LIMITED (UEN201334164H)				
Street Address:		9 BATTERY ROAD				
Internal Address:	#15-01	#15-01, STRAITS TRADING BUILDING				
City:		SINGAPORE				
State/Country:	SINGA	SINGAPORE				
Postal Code:	049910	049910				
Property Type			Number			
PROPERTY NUMBER			Numbor			
		1521	6351			
CORRESPONDENCE	DATA					
· · · · · · · · · · · · · · · · · · ·			612-2307			
			e-mail address first; if that is uns hat is unsuccessful, it will be sen			
.		621-5070				
Email: USpa		atents@armstrongteasdale.com, clager@armstrongteasdale.com				
•		HARD A. SCHUTH (SUNEDISON) ARMSTRONG				
Address Line 1:			FORSYTH BOULEVARD			
Address Line 2:			E 1800			
Address Line 4:		ST.L	OUIS, MISSOURI 63105			
ATTORNEY DOCKET NUMBER:			28744-4650 (150002.1)			
NAME OF SUBMITTER:			MICHAEL G. MUNSELL			
SIGNATURE:			/Michael G. Munsell/			
DATE SIGNED:			07/21/2016			
Total Attachments: 5						
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ASSIGNMENT

WHEREAS, We Richard J. Phillips of St. Peters, Missouri, Soubir Basak of Chandler, Arizona, and Gaurab Samanta of St. Louis, Missouri, have invented an improvement in CRYSTAL GROWING SYSTEMS AND METHODS INCLUDING A TRANSPARENT CRUCIBLE described in a provisional application for a United States patent assigned Serial No. 62/195,844, filed July 23, 2015;

AND, WHEREAS, SunEdison Semiconductor Limited (UEN201334164H), a company incorporated under the laws of Singapore and having its registered address at 9 Battery Road, #15-01, Straits Trading Building, Singapore 049910 (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 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 applications 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

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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, I have hereunto set my hand.

STATE OF /// COUNTY OF

Richard J. Phillips

On this 10 day of 449 (2015, before me, a Notary Public, personally appeared Richard J. Phillips 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.

Notary Public

My Commission Expires:

Notary Public - Notary Seal STATE OF MISSOURI St. Charles County Commission Expires: Ady 31, 2017

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PATENT REEL: 039215 FRAME: 0010 IN WITNESS WHEREOF, I have hereunto set my hand.

10/21/2015 Date

<u>Boulis Basek</u> Soubir Basak

STATE OF COUNTY OF

On this <u>2</u> day of <u>October</u>, 2015, before me, a Notary Public, personally appeared Soubir Basak 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.

Notary Public

My Commission Expires:

2018

ZIADEN Notary Public - Notary Seal 17341 Comm MISSOURI **Charles** County 20, 2018 St. Commission Expires: July

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PATENT REEL: 039215 FRAME: 0011 IN WITNESS WHEREOF, I have hereunto set my hand.

2015 08 rab Samanata STATE OF COUNTY OF On this 10 day of August 2015, before me, a Notary Public,

personally appeared Gaurab Samanta 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.

Notary Public

My Commission Expires:

Notery Public - Notery Seel Comm. Number 13569735 STATE OF MISSOURI St. Charles County My Commission Expires: July 31 2017

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For and on behalf of SunEdison Semiconductor Limited.

teg. 11, 2015

Paul Markowitz Director of Intellectual Property SunEdison Semiconductor Limited

STATE OF COUNTY OF

On this <u>//</u> day of <u>Angual</u>, 2015, before me, a Notary Public, personally appeared Paul Markowitz 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.

Notary Public

My Commission Expires:

2019



ERIKA ZIADEH Notary Public - Notary Sest Comm, Number 14917341 STATE OF MISSOURI St. Charles County Commission Expires: July 20, 2018

PATENT REEL: 039215 FRAME: 0013

RECORDED: 07/21/2016