

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6531603

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	6

CONVEYING PARTY DATA

Name	Execution Date
RICHARD J. PHILLIPS	08/06/2018
PARTHIV DAGGOLU	01/28/2019
ERIC MICHAEL GITLIN	10/23/2018
ROBERT W. STANDLEY	08/07/2018
HYUNGMIN LEE	08/03/2018
NAN ZHANG	10/12/2018
JAE-WOO RYU	08/02/2018

RECEIVING PARTY DATA

Name:	GLOBALWAFERS CO., LTD.
Street Address:	NO. 8. INDUSTRIAL EAST ROAD
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	R.O.C.

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15855466

CORRESPONDENCE DATA

Fax Number: (314)612-2307

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 3146215070

Email: uspatents@armstrongteasdale.com

Correspondent Name: RICHARD A. SCHUTH

Address Line 1: ARMSTRONG TEASDALE LLP

Address Line 2: 7700 FORSYTH BLVD., SUITE 1800

Address Line 4: ST. LOUIS, MISSOURI 63105

ATTORNEY DOCKET NUMBER:	28744-4807 (161015.1)
NAME OF SUBMITTER:	RICHARD A. SCHUTH

PATENT

SIGNATURE:	/Richard A. Schuth/
DATE SIGNED:	02/03/2021
Total Attachments: 11 source=ExecutedAssignment - missing Soubir-31968740#page1.tif source=ExecutedAssignment - missing Soubir-31968740#page2.tif source=ExecutedAssignment - missing Soubir-31968740#page3.tif source=ExecutedAssignment - missing Soubir-31968740#page4.tif source=ExecutedAssignment - missing Soubir-31968740#page5.tif source=ExecutedAssignment - missing Soubir-31968740#page6.tif source=ExecutedAssignment - missing Soubir-31968740#page7.tif source=ExecutedAssignment - missing Soubir-31968740#page8.tif source=ExecutedAssignment - missing Soubir-31968740#page9.tif source=ExecutedAssignment - missing Soubir-31968740#page10.tif source=ExecutedAssignment - missing Soubir-31968740#page11.tif	

ASSIGNMENT

WHEREAS, We Richard J. Phillips of St. Peters, Missouri; Parthiv Daggolu of Creve Coeur, Missouri; Eric Michael Gitlin of St. Peters, Missouri; Robert W. Standley of Chesterfield, Missouri; HyungMin Lee of Chungcheongnam-do, Korea; Nan Zhang of O'Fallon, Missouri; Jae-Woo Ryu of Chesterfield, Missouri; and Soubir Basak of Chandler, Arizona have invented an improvement in the following applications:

U.S. Provisional Application
Serial No. 62/439,743
Filed December 28, 2016

METHODS FOR FORMING SINGLE CRYSTAL
SILICON INGOTS WITH IMPROVED RESISTIVITY
CONTROL

U.S. Formal Application
Serial No. 15/855,466
Filed December 27, 2017

METHODS FOR FORMING SINGLE CRYSTAL
SILICON INGOTS WITH IMPROVED RESISTIVITY
CONTROL

PCT Application Serial
No. PCT/US2017/068632
Filed December 28, 2017

METHODS FOR FORMING SINGLE CRYSTAL
SILICON INGOTS WITH IMPROVED RESISTIVITY
CONTROL

AND, WHEREAS, GlobalWafers Co., Ltd., a company organized and existing under the laws of Taiwan and having its registered address at No. 8. Industrial Road 2, Science-Based Industrial Park, Hsinchu, Taiwan R.O.C. (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 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.

Signatures begin on next page

IN WITNESS WHEREOF, I have hereunto set my hand.

8/6/18
Date

Richard J. Phillips
Richard J. Phillips

STATE OF Missouri)
COUNTY OF St. Charles }

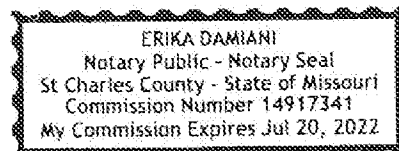
On this 6th day of August, 2018, before me, a Notary Public, personally appeared Richard J. Phillips to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

Erika Damiani
Notary Public

My Commission Expires:

July 20, 2022



IN WITNESS WHEREOF, I have hereunto set my hand.

01/28/2019
Date

D. Parthiv
Parthiv Daggolu

STATE OF Massachusetts)
COUNTY OF Essex)

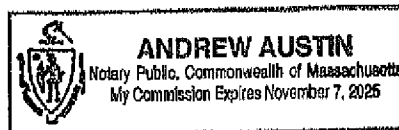
On this 28 day of January, 2019, before me, a Notary Public, personally appeared Parthiv Daggolu to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

Andrew Austin
Notary Public

My Commission Expires:

November 7, 2025



IN WITNESS WHEREOF, I have hereunto set my hand.

10/23/2018
Date

Eric Gitlin
Eric Gitlin

STATE OF Missouri
COUNTY OF St. Charles

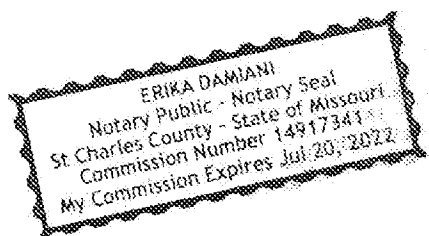
On this 23 day of October, 2018, before me, a Notary Public, personally appeared Eric Gitlin to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

Erika Damiani
Notary Public

My Commission Expires:

July 20, 2022



IN WITNESS WHEREOF, I have hereunto set my hand.

08/07/2018
Date

Robert W. Standley
Robert Standley

STATE OF Missouri
COUNTY OF St. Charles

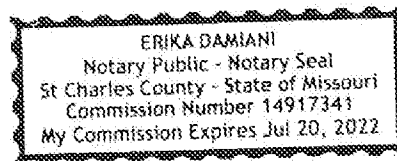
On this 7th day of August, 2018, before me, a Notary Public, personally appeared Robert Standley to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

Erika Damiani
Notary Public

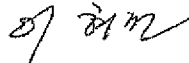
My Commission Expires:

July 20, 2022



IN WITNESS WHEREOF, I have hereunto set my hand.

Aug. 3. 2018
Date


HyungMin Lee


STATE OF _____)
COUNTY OF _____)


On this _____ day of _____, 20____, before me, a Notary Public, personally appeared HyungMin Lee 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:

Uisung Jung 
Witness

Woojin Yoon 
Witness

IN WITNESS WHEREOF, I have hereunto set my hand.

10/12/2018
Date

Nan Zhang
Nan Zhang

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 20____, before me, a Notary Public, personally appeared Nan Zhang 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:

IN WITNESS WHEREOF, I have hereunto set my hand.

8/2/2018
Date

Jae-Woo Ryu
Jae-Woo Ryu

STATE OF Missouri
COUNTY OF St. Charles

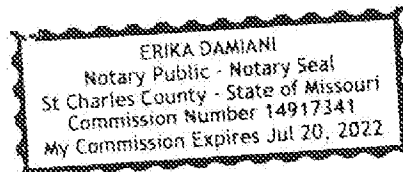
On this 2 day of October, 2018, before me, a Notary Public, personally appeared Jae-Woo Ryu to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

Erika Damiani
Notary Public

My Commission Expires:

July 20, 2022



IN WITNESS WHEREOF, I have hereunto set my hand.

Date

Soubir Basak

STATE OF _____)

COUNTY OF _____)

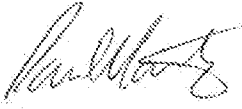
On this _____ day of _____, 20____, before me, a Notary Public, personally appeared Soubir Basak to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

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

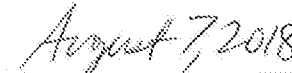
Notary Public

My Commission Expires:

For and on behalf of GlobalWafers Company, Ltd.



Paul Markowitz
Director of Intellectual Property



Date

STATE OF Missouri
COUNTY OF St. Charles

On this 7 day of August, 2018, 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:

July 20, 2022

