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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2648240

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONG MIN JANG	12/13/2013
KYU HO LEE	12/13/2013
CHANG SUK HAN	12/12/2013
HWA MOK KIM	12/12/2013
DAEWOONG SUH	12/12/2013
CHI HYUN IN	12/13/2013
JONG HYEON CHAE	12/12/2013

RECEIVING PARTY DATA

Name:	SEOUL VIOSYS CO., LTD.
Street Address:	1B-36, 727-5, WONSI-DONG, DANWON-GU,
Internal Address:	GYEONGGI-DO,
City:	ANSAN-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	425-851

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14105919

CORRESPONDENCE DATA

Fax Number:

Email: patent@park-law.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: H.C. PARK & ASSOCIATES, PLC
Address Line 1: 1894 PRESTON WHITE DRIVE
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ATTORNEY DOCKET NUMBER: P5705US00

PATENT

REEL: 031780 FRAME: 0839

OF \$40.00 14105919

NAME OF SUBMITTER: MATTHEW T. GILL		
Signature:	/M. T. Gill/	
Date:	12/13/2013	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 8 source=P5705US00_AssignmentDeclaration#page1.tif source=P5705US00_AssignmentDeclaration#page2.tif source=P5705US00_AssignmentDeclaration#page3.tif source=P5705US00_AssignmentDeclaration#page4.tif source=P5705US00_AssignmentDeclaration#page5.tif source=P5705US00_AssignmentDeclaration#page6.tif source=P5705US00_AssignmentDeclaration#page7.tif source=P5705US00_AssignmentDeclaration#page8.tif		

PATENT REEL: 031780 FRAME: 0840

ASSIGNMENT SERVING AS DECLARATION PER 37 C.F.R. § 1.63(e)

As a below named inventor and Assignor, I declare that:

	This assi	gnm	ent and de	claration ar	e directed	ł to:					
	number F Korean P	R SI NDU 570 aten	EPARATIN CTOR DE 5US00 ("A t Applicatio	hed applica IG GROWT VICE FABI pplication") on No. <u>10-2</u> on No. <u>10-2</u>	TH SUBS' RICATED , which cla 012-0146	FRATE ' USING aims pri 329, file	THERE THE S. ority fro d Dece	FROM AME ha m: mber 1	AND aving a 4, 201	attorney o	
]	As amend	ded on	<u> </u>				(i	f applica	ble);
	The abov	e-ide	entified App	olication wa	is made o	r author	ized to	be mad	le by n	ne,	
in the	I believe t Application	hat I	am the or	iginal inven	tor or an	original j	joint inv	entor o	f a cla	imed inv	ention
punish both.	l hereby a able under	ickno 18	owledge th U.S.C. § 10	at any willfu 001 by fine	ul false sta or impriso	atement onment	made i of not n	n this d nore tha	leclara an five	tion is (5) years	s, or
manuf Applica	acture, cor	Ass npos	ignor has i sitions of m	nvented ce atter, and/o	rtain new or improve	and use ements t	eful proc thereof	cesses, ("Inven	mach tion") d	ines, arti disclosed	icles of I in the
to:	Whereas,	Ass	ignor desi	res to conv	ey all righ	nts, title:	s, and i	nterest	s in ar	nd to the	same
			1B Gy An	OUL VIOS -36, 727-5, eonggi-do san-si 425- public of Ko	Wonsi-do 851	.TD. ong, Dar	าwon-gเ	1			

SEOUL VIOSYS CO., LTD. herein further referred to as ("Assignee").

Now, for valuable consideration by Assignee to Assignor, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignee and Assignor hereby agree as follows:

Assignor hereby conveys, assigns, sells and transfers to Assignee all rights, title and interests in and to the Invention disclosed in said application and in and to any Letters Patent of the United States (US), any continuation, division, renewal, or substitute thereof, and hereby grant to Assignee the right to apply in its own name for patents or Inventor's certificates and



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Docket No. <u>P5705US00</u>

related rights heretofore or hereafter filed for the Invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all patents granted thereon and all reissues, extensions and renewals thereof.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Invention, Patent, Application and any patents granted thereon, as may be known and accessible to Assignor, and Assignor will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Application, Patent, Invention, whether in the US or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense.

IN WITNESS WHEREOF, Inventor and Assignor has hereunto set hand and seal.

First inventor's and Assignor's Name:	Jong Min JANG
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
First Inventor's and Assignor's Signature:	Sout Min Jary
Date:	2013. 12.13
Second Inventor's and Assignor's Name:	Kyu Ho LEE
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
Second Inventor's and Assignor's Signature:	Kyn Ho hee Kato
Date:	2013. 12. 13

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Docket No. <u>P5705US00</u>

Third Inventor's and Assignor's Name:	. Chang Suk HAN	an in	, •-
Address:	1B-36, 727-5, Wonsl-dong, Danwon-g Gyeonggi-do Ansan-si 425-851 Republic of Korea	u	
Third Inventor's and Assignor's Signature:	- うとみられか	w myt	.9
Date:	December, 12, 2013		
Fourth Inventor's and Assignor's Name:	Hwa Mok KIM	a. Apr	
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea	r wester	_***5
Fourth Inventor's and Assignor's Signature:	为键		
Date:	DEC 12, 2013	on the second	,a?
Fifth Inventor's and Assignor's Name Address:	Daewoong Suh 1B-36, 727-5, Wonsi-dong, Danwon-gu		
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Fifth Inventor's and Assignor's Signature:			
Date:	and the second second		Wo.

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Sixth Inventor's and Assignor's Name:	Chi Hyun IN
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
Sixth Inventor's and Assignor's Signature:	
Date:	2013. 12.13
Seventh Inventor's and Assignor's Name:	Jong Hyeon CHAE
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
Seventh Inventor's and Assignor's Signature:	Alvan
Date:	Dec. 12. 2013

As a below named inventor and Assignor, I declare that:

ASSIGNMENT SERVING AS DECLARATION PER 37 C.F.R. § 1.63(e)

This assignment and declaration are directed to:

The attached application entitled EPITAXIAL LAYER WAFER HAVING VOID FOR SEPARATING GROWTH SUBSTRATE THEREFROM AND SEMICONDUCTOR DEVICE FABRICATED USING THE SAME having attorney docket number P5705US00 ("Application"), which claims priority from:

Korean Patent Application No. 10-2012-0146329, filed December 14, 2012

Korean Patent Application No. 10-2012-0150389, filed December 21, 2012

As amended on _______ (if applicable);

The above-identified Application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the Application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Whereas, Assignor has invented certain new and useful processes, machines, articles of manufacture, compositions of matter, and/or improvements thereof ("Invention") disclosed in the Application,

Whereas, Assignor desires to convey all rights, titles, and interests in and to the same to:

SEOUL VIOSYS CO., LTD. 1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea

SEOUL VIOSYS CO., LTD. herein further referred to as ("Assignee").

Now, for valuable consideration by Assignee to Assignor, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignee and Assignor hereby agree as follows:

Assignor hereby conveys, assigns, sells and transfers to Assignee all rights, title and interests in and to the Invention disclosed in said application and in and to any Letters Patent of the United States (US), any continuation, division, renewal, or substitute thereof, and hereby grant to Assignee the right to apply in its own name for patents or Inventor's certificates and



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Docket No. <u>P5705US00</u>

related rights heretofore or hereafter filed for the Invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all patents granted thereon and all reissues, extensions and renewals thereof.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Invention, Patent, Application and any patents granted thereon, as may be known and accessible to Assignor, and Assignor will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Application, Patent, Invention, whether in the US or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense.

IN WITNESS WHEREOF, Inventor and Assignor has hereunto set hand and seal.

First inventor's and Assignor's Name:	Jong Min JANG
Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
First Inventor's and Assignor's Signature:	Sout Min Jay
Date:	2013. 12.13
Second Inventor's and Assignor's Name:	Kyu Ho LEE
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Second Inventor's and Assignor's Signature:	Kyn Ho hee Kato
Date:	2013. 12. 13

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Third Inventor's and Assignor's Signature:	
Date:	
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Address:	1B-36, 727-5, Wonsi-dong, Danwon-gu Gyeonggi-do Ansan-si 425-851 Republic of Korea
Fourth Inventor's and Assignor's Signature:	
Date:	
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Fifth Inventor's and Assignor's Signature:	Dueny Sul
Date:	Dec 12 / 2013

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Docket No. P5705US00

Sixth Inventor's and Assignor's Name:	Chi Hyun IN
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	<u>A</u>
Sixth Inventor's and Assignor's Signature:	
Date:	2013. 12.13
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Seventh Inventor's and Assignor's Signature:	- Alvour
Date:	_ Dec. 12. 2013

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RECORDED: 12/13/2013