501843543 03/06/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Christopher Vineis	02/06/2012
James Carey	02/06/2012
Xia Li	02/06/2012

RECEIVING PARTY DATA

Name:	SiOnyx, Inc.
Street Address:	100 Cummings Ctr., Suite 243-F
City:	Beverly
State/Country:	MASSACHUSETTS
Postal Code:	01915-6506

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13333482

CORRESPONDENCE DATA

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via US Mail.

Correspondent Name: Todd B. Alder

Address Line 1: 8180 South 700 East, Suite 350
Address Line 2: Thorpe North & Western, LLP

Address Line 4: Sandy, UTAH 84070

ATTORNEY DOCKET NUMBER:	3035-022.NP
NAME OF SUBMITTER:	Todd B. Alder

Total Attachments: 5

PATENT REEL: 027814 FRAME: 0816 DP \$40,00 133;

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Docket No. 3035-022.NP

WHEN RECORDED RETURN TO:
Todd B. Alder, Ph.D.
Thorpe North & Western, LLP
P.O. Box 1219
Sandy, UT 84091-1219

ASSIGNMENT

WHEREAS, we, Christopher Vineis (resident of the State of MA, whose postal mailing address is 471 N. Arsenal St., Watertown, MA 02472), James Carey (resident of the State of MA, whose postal mailing address is 117 Vernon Unit 2, Waltham, MA 02453), and Xia Li (resident of the State of MA, whose postal mailing address is 15 Trask Court, Unit 31, Beverly, MA 01915), (hereinafter "Assignors") have invented a certain new and useful improvement in a SEMICONDUCTOR DEVICES HAVING REDUCED SUBSTRATE DAMAGE AND ASSOCIATED METHODS for which an application for United States Letters was filed on December 21, 2011 as THORPE NORTH & WESTERN, LLP Docket No. 3035-022.NP, and given U.S. Patent Application Serial No. 13/333,482; (Thorpe North & Western, LLP is hereby authorized to insert the specified data, when known) and:

WHEREAS, SiOnyx, Inc., a corporation, organized and existing under the laws of the State of Delaware, having a business address of 100 Cummings Ctr., Suite 243-F, Beverly, MA 01915-6506, (hereinafter "Assignee"), is desirous of acquiring Assignor's entire right, title, and interest in the same;

NOW, THEREFORE, in consideration of one dollar (\$1.00) and other good and valuable consideration paid to us by the Assignee, the receipt and sufficiency whereof is hereby acknowledged, we the said Assignors, hereby grant and assign unto the said Assignee, our entire right, title and interest in said invention and in all patent applications based thereon, including but not limited to the above identified United States Patent Application and in all provisionals, divisions, continuations, and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and

Assignment

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foreign countries; the right, power and authority to file and prosecute U.S. and foreign patent applications on said invention, and to do so in its own name wherever such right may be legally exercised, and including the right to claim the priority and benefits of the International Convention for such applications; and the right to bring actions for infringement of any right in said invention in its own name, including past infringement, in any jurisdiction.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all Letters Patent on said invention to the said Assignee as the owner of our entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following: prompt execution of all original, divisional, substitution, reissue, and other United States and foreign patent applications on said invention, and all lawful documents as requested by the Assignee to further the prosecution of any of such patent applications; and cooperation to the best of our ability including, but not limited to, the execution of all lawful documents, the production of evidence in any actions or proceedings concerning the invention, including, but not limited to, nullification, reissue, extension, and infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

Assignment US Patent Application No.: 13/333,482 Docket No: 3035-022.NP Page 3			
Executed this 6th day of Beverly, MA	February (City, State).	, 2012 at	
0.1	Christoph	16	
STATE OF) : ss)		
Before me personally appeare	d Christopher Vir	neis and acknowledged tl	ne foregoing
instrument to be his free act and deed	this day	of	, 2012.

Notary Public

Assignment US Patent Application No.: 13/333, Docket No: 3035-022.NP Page 4	482	
Executed this 6th Bexerly, MA	day of February	, 2012 at
Beverly, MA	(City, State).	_
	h	_ Cen
	James Carey	
		\bigcup
STATE OF		
County of)	
Before me personally a	appeared James Carey and ac	cknowledged the foregoing instrument
to be his free act and deed this	day of	, 2012.

Notary Public

Assignment US Patent Application No.: 13/333,482 Docket No: 3035-022.NP Page 5	
Executed this 6 th day of Feb Beverly MA (City	vuary , 2012 at, State).
	χία L' Xia Li
STATE OF) : ss County of)	
Before me personally appeared Xia his free act and deed this day of _	Li and acknowledged the foregoing instrument to be, 2012.
	Notary Public

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RECORDED: 03/06/2012