## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3705716

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HARRY YUE GEE	08/19/2015
MARK HAROLD CLARK	09/07/2010
STEVEN PATRICK MAXWELL	08/28/2015
SUNG HYUN JO	08/20/2015
NATIVIDAD VASQUEZ JR.	08/20/2015

#### **RECEIVING PARTY DATA**

Name:	CROSSBAR, INC.
Street Address:	3200 PATRICK HENRY DRIVE
Internal Address:	SUITE 110
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14887050

### **CORRESPONDENCE DATA**

Fax Number: (216)696-8731

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: 216-696-8730

Email: epas@thepatentattorneys.com

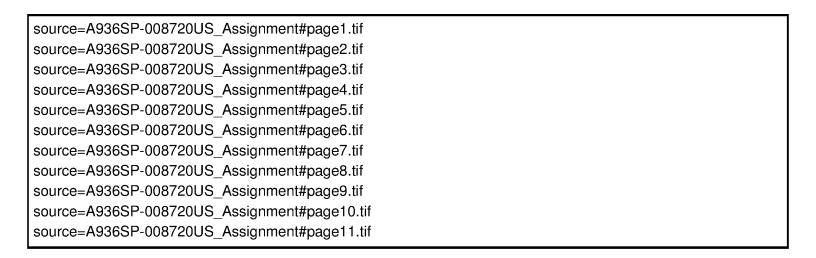
AMIN, TUROCY & WATSON, LLP/CROSSBAR **Correspondent Name:** 

127 PUBLIC SQUARE, 57TH FL. Address Line 1:

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	A936SP-008720US/CROSP117A
NAME OF SUBMITTER:	MATTHEW F. CLAPPER
SIGNATURE:	/Matthew F. Clapper/
DATE SIGNED:	01/21/2016

**Total Attachments: 11** 



WE, Harry Yue Gee, Mark Har	old Clark, Steven Patrick Maxwell, Sung Hyun
Jo, Natividad Vasquez ("ASSIGNORS"), have	invented subject matter ("INVENTION")
disclosed and/or claimed in a patent applie	cation entitled "SUB-OXIDE INTERFACE LAYER
FOR TWO-TERMINAL MEMORY" ("APPLICAT	
will be filed without this execut	ed PATENT ASSIGNMENT. ASSIGNORS
hereby authorize, and request, a	ASSIGNEE'S legal representatives, of
Amin, Turocy & Watson, LLP, 12	7 Public Square, 57th Floor, Key Tower,
•	e associated with customer number 23623,
to insert here in parenthesis (U.	
	ICATION'S U.S. Serial Number and filing
date, when known;	3
	vas given U.S. Serial No. <u>14/027,045</u> ;
is filed concurrently herewith;	
•	orporation, on behalf of itself and its
successors and assigns ("ASSIGNEE"), is ent	
entire and exclusive rights, title and interes	
(and all other applications and patents deri	
applications, in and for the United States, i	
("APPLICATION DERIVATIVES");	
• •	eration, the receipt of which is hereby
acknowledged by the ASSIGNORS, the ASSIG	•
the ASSIGNEE, the entire and exclusive righ	
the APPLICATION (and APPLICATION DERIV	
	all instruments and documents required for
<del>-</del>	ATION (and APPLICATION DERIVATIVES), for
	herefrom, and for the purpose of protecting
and perfecting title to the APPLICATION (an	
	d ATTECATION BERIVATIVES).
8/19/2015	Harry Yue See
DATE	Harry Yue Gee
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DATE	Mark Harold Clark
27112	Mark Parota Clark
DATE	Steven Patrick Maxwell
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DATE	Sung Hyun Jo
DATE	Natividad Vasquez

### CROSSBAR, INC.

### EMPLOYEE INVENTION ASSIGNMENT AND CONFIDENTIALITY AGREEMENT

In consideration of, and as a condition of my employment with Crossbar, Inc., a Delaware corporation with its principal offices in the State of California (the "Company"), I, as the "Employee" signing this Employee Invention Assignment and Confidentiality Agreement (this "Agreement"), hereby represent to the Company, and the Company and I hereby agree as follows:

- 1. Purpose of Agreement. I understand that the Company is engaged in a continuous program of research, development, production and/or marketing in connection with its current and projected business and that it is critical for the Company to preserve and protect its proprietary information, its rights in certain inventions and works and in related intellectual property rights. Accordingly, I am entering into this Agreement, whether or not I am expected to create inventions or other works of value for the Company. As used in this Agreement, "Inventions" means inventions, improvements, designs, original works of authorship, formulas, processes, apparatus and systems, compositions of matter, computer software programs, databases, mask works, confidential information and trade secrets.
- 2. <u>Disclosure of Inventions</u>. I will promptly disclose in confidence to the Company, or to any person designated by it, all Inventions that I make, create, conceive or first reduce to practice, either alone or jointly with others, during the period of my employment, whether or not in the course of my employment, and whether or not patentable, copyrightable or protectable as trade secrets.
- 3. Work for Hire: Assigned Inventions. I acknowledge and agree that any copyrightable works prepared by me within the scope of my employment will be "works made for hire" under the Copyright Act and that the Company will be considered the author and owner of such copyrightable works. I agree that all Inventions that I make, create, conceive or first reduce to practice during the period of my employment, whether or not in the course of my employment, and whether or not patentable, copyrightable or protectable as trade secrets, and that (i) are developed using equipment, supplies, facilities or trade secrets of the Company; (ii) result from work performed by me for the Company; or (iii) relate to the Company's business or actual or demonstrably anticipated research or development (the "Assigned Inventions"), will be the sole and exclusive property of the Company.
- Excluded Inventions and Other Inventions. Attached hereto as Exhibit A is a list describing all existing Inventions, if any, that may relate to the Company's business or actual or demonstrably anticipated research or development and that were made by me or acquired by me prior to the Effective Date (as defined in Section 26, below), and which are not to be assigned to the Company ("Excluded Inventions"). If no such list is attached, I represent and agree that it is because I have no rights in any existing Inventions that may relate to the Company's business or actual or demonstrably anticipated research or development. For purposes of this Agreement, "Other Inventions" means Inventions in which I have or may have an interest, as of the Effective Date or thereafter, other than Assigned Inventions and Excluded Inventions. I acknowledge and agree that if, in the scope of my employment, I use any Excluded Inventions or any Other Inventions, or if I include any Excluded Inventions or Other Inventions may block or interfere with, or

may otherwise be required for, the exercise by the Company of any rights assigned to the Company under this Agreement, I will immediately so notify the Company in writing. Unless the Company and I agree otherwise in writing as to particular Excluded Inventions or Other Inventions, I hereby grant to the Company, in such circumstances (whether or not I give the Company notice as required above), a perpetual, irrevocable, nonexclusive, transferable, world-wide, royalty-free license to use, disclose, make, sell, offer for sale, import, copy, distribute, modify and create works based on, perform, and display such Excluded Inventions and Other Inventions, and to sublicense third parties in one or more tiers of sublicensees with the same rights.

- 5. Exception to Assignment. I understand that the Assigned Inventions will not include, and the provisions of this Agreement requiring assignment of inventions to the Company do not apply to, any invention that qualifies fully for exclusion under the provisions of Section 2870 of the California Labor Code, which are attached hereto as Exhibit B.
- Assignment of Rights. I agree to assign, and do hereby irrevocably transfer and assign, to the Company: (i) all of my rights, title and interests in and with respect to any Assigned Inventions; (ii) all patents, patent applications, copyrights, mask works, rights in databases, trade secrets, and other intellectual property rights, worldwide, in any Assigned Inventions, along with any registrations of or applications to register such rights; and (iii) to the extent assignable, any and all Moral Rights (as defined below) that I may have in or with respect to any Assigned Inventions. I also hereby forever waive and agree never to assert any Moral Rights I may have in or with respect to any Assigned Inventions and any Excluded Inventions or Other Inventions licensed to the Company under Section 4, even after termination of my employment with the Company. "Moral Rights" means any rights to claim authorship of a work, to object to or prevent the modification or destruction of a work, to withdraw from circulation or control the publication or distribution of a work, and any similar right, regardless of whether or not such right is denominated or generally referred to as a "moral right."
- 7. Assistance. I will assist the Company in every proper way to obtain and enforce for the Company all patents, copyrights, mask work rights, trade secret rights and other legal protections for the Assigned Inventions, worldwide. I will execute and deliver any documents that the Company may reasonably request from me in connection with providing such assistance. My obligations under this section will continue beyond the termination of my employment with the Company; provided that the Company agrees to compensate me at a reasonable rate after such termination for time and expenses actually spent by me at the Company's request in providing such assistance. I hereby appoint the Secretary of the Company as my attorney-in-fact to execute documents on my behalf for this purpose. I agree that this appointment is coupled with an interest and will not be revocable.
- 8. Proprietary Information. I understand that my employment by the Company creates a relationship of confidence and trust with respect to any information or materials of a confidential or secret nature that may be made, created or discovered by me or that may be disclosed to me by the Company or a third party in relation to the business of the Company or to the business of any parent, subsidiary, affiliate, customer or supplier of the Company, or any other party with whom the Company agrees to hold such information or materials in confidence (the "Proprietary Information"). Without limitation as to the forms that Proprietary Information may take, I acknowledge that Proprietary Information may be

contained in tangible material such as writings, drawings, samples, electronic media, database files, or computer programs, or may be in the nature of unwritten knowledge or know-how. Proprietary Information includes, but is not limited to, Assigned Inventions, marketing plans, product plans, designs, process recipes, cell structures, semiconductor process and designs, data, prototypes, specimens, test protocols, laboratory notebooks, business strategies, financial information, forecasts, personnel information, contract information, customer and supplier lists, and the non-public names and addresses of the Company's customers and suppliers, their buying and selling habits and special needs. Notwithstanding the above, any and all information or materials related to semiconductor memories, including design, layout, process, integration, and testing, shall be included as Proprietary Information of Company.

Confidentiality. At all times, both during my employment and after its termination, I will keep and hold all Proprietary Information in strict confidence and trust. I will not use or disclose any Proprietary Information without the prior written consent of the Company in each instance, except as may be necessary to perform my duties as an employee of the Company for the benefit of the Company. Upon termination of my employment with the Company, I will promptly deliver to the Company all documents and materials of any nature pertaining to my work with the Company, and I will not take with me or retain in any form any documents or materials or copies containing any Proprietary Information.

10. Physical Property. All documents, supplies, equipment and other physical property furnished to me by the Company or produced by me or others in connection with my employment will be and remain the sole property of the Company. I will return to the Company all such items when requested by the Company, excepting only my personal copies of records relating to my employment or compensation and any personal property I bring with me to the Company and designate as such. Even if the Company does not so request, I will upon termination of my employment return to the Company all Company property, and I will not take with me or retain any such items.

11. No Breach of Prior Agreements. I represent that my performance of all the terms of this Agreement and my duties as an employee of the Company will not breach any invention assignment, proprietary information, confidentiality, non-competition, or other agreement with any former employer or other party. I represent that I will not bring with me to the Company or use in the performance of my duties for the Company any documents or materials or intangibles of my own or of a former employer or third party that are not generally available for use by the public or have not been legally transferred to the Company.

12. "At Will" Employment. I understand that this Agreement does not constitute a contract of employment or obligate the Company to employ me for any stated period of time. I understand that I am an "at will" employee of the Company and that my employment can be terminated at any time, with or without notice and with or without cause, for any reason or for no reason, by either the Company or by me. I acknowledge that any statements or representations to the contrary are ineffective, unless put into a writing signed by the Company. I further acknowledge that my participation in any stock option or benefit program is not to be construed as any assurance of continuing employment for any particular period of time.

13. Company Opportunities; Duty Not to Compete. During the period of my employment, I will at all times devote my best efforts to the interests of the Company, and I will not, without the prior written consent of the Company, engage in, or encourage or assist

others to engage in, any other employment or activity that: (i) would divert from the Company any business opportunity in which the Company can reasonably be expected to have an interest; (ii) would directly compete with, or involve preparation to compete with, the current or future business of the Company; or (iii) would otherwise conflict with the Company's interests or could cause a disruption of its operations or prospects.

- 14. Non-Solicitation of Employees/Consultants. During my employment with the Company and for a one (1) year period thereafter, I will not directly or indirectly solicit away employees or consultants of the Company for my own benefit or for the benefit of any other person or entity, nor will I encourage or assist others to do so.
- 15. <u>Non-Solicitation of Suppliers/Customers</u>. During and after the termination of my employment with the Company, I will not directly or indirectly solicit or otherwise take away customers or suppliers of the Company if, in so doing, I use or disclose any trade secrets or other Proprietary Information of the Company.
- 16. <u>Use of Name & Likeness</u>. I hereby authorize the Company to use, reuse, and to grant others the right to use and reuse, my name, photograph, likeness (including caricature), voice, and biographical information, and any reproduction or simulation thereof, in any form of media or technology now known or hereafter developed, both during and after my employment, for any purposes related to the Company's business, such as marketing, advertising, credits, and presentations.
- 17. Notification. I hereby authorize the Company, during and after the termination of my employment with the Company, to notify third parties, including, but not limited to, actual or potential customers or employers, of the terms of this Agreement and my responsibilities hereunder.
- 18. <u>Injunctive Relief.</u> I understand that a breach or threatened breach of this Agreement by me may cause the Company to suffer irreparable harm and that the Company will therefore be entitled to injunctive relief to enforce this Agreement.
- 19. Governing Law; Severability. This Agreement is intended to supplement, and not to supersede, any rights the Company may have in law or equity with respect to the duties of its employees and the protection of its trade secrets. This Agreement will be governed by and construed in accordance with the laws of the State of California without giving effect to any principles of conflict of laws that would lead to the application of the laws of another jurisdiction. If any provision of this Agreement is invalid, illegal or unenforceable in any respect, such provision will be enforced to the maximum extent possible, given the fundamental intentions of the parties when entering into this Agreement. To the extent such provision cannot be so enforced, it will be stricken from this Agreement and the remainder of this Agreement will be enforced as if such invalid, illegal or unenforceable provision had never been contained in this Agreement.
- 20. <u>Counterparts.</u> This Agreement may be executed in any number of counterparts, each of which when so executed and delivered will be deemed an original, and all of which together will constitute one and the same agreement.
- 21. Entire Agreement. This Agreement and the documents referred to herein constitute the entire agreement and understanding of the parties with respect to the subject matter of this Agreement, and supersede all prior understandings and agreements, whether oral or written, between the parties hereio with respect to such subject matter.
- 22. <u>Amendment and Waiver.</u> This Agreement may be amended only by a written agreement executed by each of the parties to this Agreement. No amendment or waiver of,

or modification of any obligation under, this Agreement will be enforceable unless specifically set forth in a writing signed by the party against which enforcement is sought. A waiver by either party of any of the terms and conditions of this Agreement in any instance will not be deemed or construed to be a waiver of such term or condition with respect to any other instance, whether prior, concurrent or subsequent.

- 23. <u>Successors and Assigns: Assignment.</u> Except as otherwise provided in this Agreement, this Agreement, and the rights and obligations of the parties hereunder, will bind and benefit the parties and their respective successors, assigns, heirs, executors, administrators, and legal representatives. The Company may assign any of its rights and obligations under this Agreement. I understand that I will not be entitled to assign or delegate this Agreement or any of my rights or obligations hereunder, whether voluntarily or by operation of law, except with the prior written consent of the Company.
- 24. Further Assurances. The parties will execute such further documents and instruments and take such further actions as may be reasonably necessary to carry out the purposes and intent of this Agreement. Upon termination of my employment with the Company, I will execute and deliver a document or documents in a form reasonably requested by the Company confirming my agreement to comply with the post-employment obligations contained in this Agreement.
- 25. Acknowledgement. I certify and acknowledge that I have carefully read all of the provisions of this Agreement and that I understand and will fully and faithfully comply with this Agreement.

Company:	CrossBor, Inc.	Employee:
Ву:	Julian	- Kar- H- Clark
		Signature
Name:	Googe Minassian	MARK H. C.LARK
	$\mathcal{O}$	Name (Please Print)
Title:	Ceo	

## Exhibit A

### LIST OF EXCLUDED INVENTIONS UNDER SECTION 4

Date

Title

Identifying Number or Brief Description

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	Carina de la carina		
68			
8.7	No inventions, improvements	, or original works of authorship	
	•		
28			
140	Additional sheets attached		
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### Exhibit B

### CALFORNIA LABOR CODE 2870 NOTICE:

California Labor Code Section 2870 provides as follows:

Any provision in an employment agreement which provides that an employee shall assign, or offer to assign, any of his or her rights in an invention to his or her employer shall not apply to an invention that the employee developed entirely on his or her own time without using the employer's equipment, supplies, facilities, or trade secret information except for those inventions that either: (1) relate at the time of conception or reduction to practice of the invention to the employer's business, or actual or demonstrably anticipated research or development of the employer; or (2) result from any work performed by the employee for the employer. To the extent a provision in an employment agreement purports to require an employee to assign an invention otherwise excluded from being required to be assigned under California Labor Code Section 2870(a), the provision is against the public policy of this state and is unenforceable.

WE, Harry Yue Gee, Mark Harol	d Clark, Steven Patrick Maxwell, Sung Hyun
Jo, Natividad Vasquez ("ASSIGNORS"), have i	nvented subject matter ("INVENTION")
disclosed and/or claimed in a patent applica	tion entitled "SUB-OXIDE INTERFACE LAYER
FOR TWO-TERMINAL MEMORY" ("APPLICATION	DN"), which:
will be filed without this executed	d PATENT ASSIGNMENT. ASSIGNORS
hereby authorize, and request, As	SSIGNEE'S legal representatives, of
Amin, Turocy & Watson, LLP, 127	Public Square, 57th Floor, Key Tower,
Cleveland, Ohio 44114, who are	associated with customer number 23623,
to insert here in parenthesis (U.S.	Serial No,
filed) this APPLIC	CATION'S U.S. Serial Number and filing
date, when known;	
$\boxtimes$ was filed on $09-13-2013$ and wa	s given U.S. Serial No. <u>14/027,045;</u>
is filed concurrently herewith;	
Crossbar, Inc., a California Cor	poration, on behalf of itself and its
successors and assigns ("ASSIGNEE"), is entit	led to, and is desirous of acquiring, the
entire and exclusive rights, title and interest	in the INVENTION and the APPLICATION
(and all other applications and patents deriv	ed therefrom, such as continuing
applications, in and for the United States, its	territories, and all foreign countries
("APPLICATION DERIVATIVES");	
For good and valuable conside	ration, the receipt of which is hereby
acknowledged by the ASSIGNORS, the ASSIG	NORS hereby sell, assign and transfer to
the ASSIGNEE, the entire and exclusive rights	s, title and interest in the INVENTION and
the APPLICATION (and APPLICATION DERIVA	TIVES);
ASSIGNORS agree to execute al	l instruments and documents required for
the making and prosecution of the APPLICAT	TION (and APPLICATION DERIVATIVES), for
litigation regarding letters patent derived the	erefrom, and for the purpose of protecting
and perfecting title to the APPLICATION (and	APPLICATION DERIVATIVES).
DATE	Harry Yue Gee
DATE	Mark Harold Clark
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8/28/2015	V
DATE	Steven Patrick Maxwell
DATE	Steven Father Maxwell

WE, Harry Yue Gee, Mark I	Harold Clark, Steven Patrick Maxwell, Sung Hyun	
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is filed concurrently herewit	h;	
Crossbar, Inc., a California	a Corporation, on behalf of itself and its	
successors and assigns ("ASSIGNEE"), is	entitled to, and is desirous of acquiring, the	
entire and exclusive rights, title and interest in the INVENTION and the APPLICATION		
(and all other applications and patents	derived therefrom, such as continuing	
applications, in and for the United State	es, its territories, and all foreign countries	
("APPLICATION DERIVATIVES");		
For good and valuable cor	nsideration, the receipt of which is hereby	
acknowledged by the ASSIGNORS, the A	ASSIGNORS hereby sell, assign and transfer to	
the ASSIGNEE, the entire and exclusive	rights, title and interest in the INVENTION and	
the APPLICATION (and APPLICATION DE	:RIVATIVES);	
ASSIGNORS agree to exec	ute all instruments and documents required for	
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and perfecting title to the APPLICATION		
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DATE	Harry Yue Gee	
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DATE	Mark Harold Clark	
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08/20/2015	- sugarato	
DATE	Sung Hyun Jo	
DATE	Natividad Vasquez	

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	13 and was given U.S. Serial No. <u>14/027,045;</u>
is filed concurrently her	
	fornia Corporation, on behalf of itself and its
<b>-</b>	e"), is entitled to, and is desirous of acquiring, the
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the APPLICATION (and APPLICATIO	N DERIVATIVES);
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	derived therefrom, and for the purpose of protecting
	TION (and APPLICATION DERIVATIVES).
and perfecting the to the ArribeA	TION (and ATTERCATION BERNATIVES).
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DATE	Mark Harold Clark
DATE	Steven Patrick Maxwell
DATE ,	Sung Hyyn Jo
8/20/15	THUN
	Natividad Vasquaz
DATE	Natividad Vasquez

PATENT REEL: 037550 FRAME: 0302

**RECORDED: 01/21/2016**