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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIN SHIH LIU	06/27/2017
TIANHONG YAN	06/28/2017
SUNG HYUN JO	06/27/2017
SANG NGUYEN	07/07/2017
HAGOP NAZARIAN	07/10/2017

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:	15637990

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 **Correspondent Name:**

Address Line 1: 127 PUBLIC SQUARE

Address Line 2: 57TH FLOOR, KEY TOWER Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	A936SP-015600US/CROSP262A
NAME OF SUBMITTER:	MATTHEW F. CLAPPER
SIGNATURE:	/Matthew F. Clapper/
DATE SIGNED:	09/20/2017

Total Attachments: 5 source=A936SP-015600US_Assignment#page1.tif source=A936SP-015600US_Assignment#page2.tif

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PATENT ASSIGNMENT

DATE	Sung Hyun Jo
DATE	Tianhong Yan
DATE	LIN SAIN LIU
June 27, 2017	Lin Shih Liu
	11/1/1
and perfecting title to the APPLICATION	
-	d therefrom, and for the purpose of protecting
_	te all instruments and documents required for ICATION (and APPLICATION DERIVATIVES), for
the APPLICATION (and APPLICATION DER	
,	ights, title and interest in the INVENTION and
acknowledged by the ASSIGNORS, the AS	SSIGNORS hereby sell, assign and transfer to
	sideration, the receipt of which is hereby
("APPLICATION DERIVATIVES");	,, 100 00111001, 001, 001, 001, 001, 00
• •	s, its territories, and all foreign countries
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	
igotimes is filed concurrently herewith	
was filed on and w	as given U.S. Serial No;
date, when known;	
•	PLICATION'S U.S. Serial Number and filing
	(U.S. Serial No,
•	are associated with customer number 23623,
•	t, ASSIGNEE'S legal representatives, of 127 Public Square, 57th Floor, Key Tower,
	tuted PATENT ASSIGNMENT. ASSIGNORS
AND SIGNAL TERMINATION FOR 1TNR M	
	ntitled " <u>READ OPERATION WITH DATA LATCH</u>
Hagop Nazarian ("ASSIGNORS"), have in	vented subject matter ("INVENTION") disclosed
WE, LIH SIIII LIU, Haimoi	ng Yan, Sung Hyun Jo, Sang Nguyen and

PATENT ASSIGNMENT

WE, Lin Shih Lin Tian	nhong Yan, Sung Hyun Jo, Sang Nguyen and		
Hagop Nazarian ("ASSICNORS") bay	re invented subject matter ("INVENTION") disclosed		
and/or claimed in a natent application	on entitled " <u>READ OPERATION WITH DATA LATCH</u>		
AND SIGNAL TERMINATION FOR 171	IS MEMORY ARRAY OF THE		
Will be filed without this	IR MEMORY ARRAY" ("APPLICATION"), which:		
harahy suthasing and	executed PATENT ASSIGNMENT. ASSIGNORS		
Amin Turon & Water 1	juest, ASSIGNEE'S legal representatives, of		
Clausiand Objection, L	LP, 127 Public Square, 57th Floor, Key Tower,		
cieveianu, Onio 44114, v	vho are associated with customer number 23623,		
filed	sis (U.S. Serial No		
this	APPLICATION'S U.S. Serial Number and filing		
date, when known;			
was filed on and	d was given U.S. Serial No.		
is med concurrently herev	vith;		
Crossbar, Inc., a California Corporation, on behalf of itself and its			
auccessors and assigns ("ASSIGNEE"),	is entitled to, and is desirous of acquiring the		
end is and exclusive rights, title and i	nterest in the INVENTION and the Application		
danu an other applications and patent	tand all other applications and patents derived therefrom, such as continuing		
applications, in and for the United States, its territories, and all foreign countries			
("APPLICATION DERIVATIVES");			
For good and valuable c	onsideration, the receipt of which is hereby		
acknowledged by the ASSIGNORS, the	ASSIGNORS hereby sell, assign and transfer to		
the ASSIGNEE, the entire and exclusive	e rights, title and interest in the INVENTION and		
the APPLICATION (and APPLICATION D	DERIVATIVES)		
	cute all instruments and documents required for		
the making and prosecution of the AP	PLICATION (and APPLICATION DERIVATIVES), for		
litigation regarding letters patent deriv	ved therefrom, and for the purpose of protecting		
and perfecting title to the APPLICATIO	N (and application) and for the purpose of protecting		
, , , , , , , , , , , , , , , , , , , ,	in (and APPLICATION DERIVATIVES),		
DATE	Lin Shih Liu		
	A A A A A A A A A A A A A A A A A A A		
DATE	Tianhong Yan		
			
DATE	Support It		
	Sung Hyun Jo		

PATENT ASSIGNMENT

WE, Lin Shih Liu, Tianhong Yan, Sung Hyun Jo, Sang Nguyen and	
Hagop Nazarian ("ASSIGNORS"), have invented subject matter ("INVENTION") disclosed	
and/or claimed in a patent application entitled "READ OPERATION WITH DATA LATCH	
AND SIGNAL TERMINATION FOR 1TNR MEMORY ARRAY" ("APPLICATION"), which:	
will be filed without this executed PATENT ASSIGNMENT. ASSIGNORS	
hereby authorize, and request, ASSIGNEE'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 APPLICATION'S U.S. Serial Number and filing	
date, when known;	
was filed on and was given U.S. Serial No;	
is filed concurrently herewith;	
Crossbar, Inc., a California 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	
("APPLICATION DERIVATIVES");	
For good and valuable consideration, the receipt of which is hereby	
acknowledged by the ASSIGNORS, the 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 DERIVATIVES);	
ASSIGNORS agree to execute all instruments and documents required for	
the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for	
litigation regarding letters patent derived therefrom, and for the purpose of protecting	
and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).	
DATE Lin Shih Liu	
DATE Tianhong Yan	
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06/27/2017 Sunhando	
DATE Sung Hyun Jo	

7/7/2017	_ { [lgk many
DATE	Sang Nguyen
DATE	Hagop Nazarian

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DATE	Sang Nguyen
7/10/2017	H. Nazaria
DATE	Hagop Nazarian

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