### 506954921 11/02/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7001759

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JEREMY GUY	03/24/2021
SUNG HYUN JO	11/09/2020
HAGOP NAZARIAN	11/09/2020
RUCHIRKUMAR SHAH	11/19/2020
LIANG ZHAO	03/24/2021

#### RECEIVING PARTY DATA

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

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

Property Type	Number
Application Number:	17242015

### **CORRESPONDENCE DATA**

**Fax Number:** (216)642-8826

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:** 2166423342

Email: whvipgroup@wegmanlaw.com
Correspondent Name: MATTHEW F. CLAPPER

WATTHEW T. OLATTER

**Address Line 1:** 6055 ROCKSIDE WOODS BLVD., STE. 200

Address Line 4: CLEVELAND, OHIO 44131

ATTORNEY DOCKET NUMBER: 190033 0181P2C.US

NAME OF SUBMITTER: MATTHEW F. CLAPPER

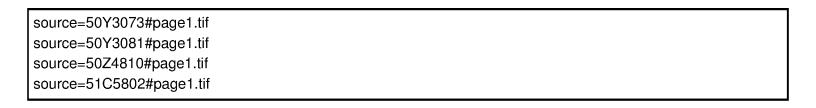
SIGNATURE: /Matthew F. Clapper/

DATE SIGNED: 11/02/2021

**Total Attachments: 5** source=51C5043#page1.tif

PATENT 4921 REEL: 057991 FRAME: 0920

506954921



WE, Jeremy Guy ("ASSIGNOR") Su NAZARIAN ("ASSIGNOR"), Ruchirkumar SH ("ASSIGNOR") have invented subject matter ("IN patent application entitled "RESISTIVE RANDON ERASE TECHNIQUES AND APPARATUS" ("A  will be filed without this executed hereby authorize, and request, ASSIGNEE'S legal Rockside Woods Boulevard, Ste. 200, Cleveland customer number 129485, to insert here in p filed March 4, 2019 ) this APPLICATION'S known;  was filed on  is filed concurrently herewith; Crossbar, Inc., a California Corporation, of assigns ("ASSIGNEE"), is entitled to, and is desirights, title and interest in the INVENTION applications and patents derived therefrom, such	AH ("ASSIGNOR"), and Liang ZHAO VENTION") disclosed and/or claimed in a M ACCESS MEMORY PROGRAM AND PPLICATION"), which: PATENT ASSIGNMENT. ASSIGNORS representatives, of Wegman Hessler, 6055 d, Ohio 44131, who are associated with parenthesis (U.S. Serial No. 16/291,467 U.S. Serial Number and filing date, when and was given U.S. Serial No. on behalf of itself and its successors and rous of acquiring, the entire and exclusive and the APPLICATION (and all other
United States, its territories, and all foreign countri-	
For good and valuable consideration, the re-	
the ASSIGNORS, the ASSIGNORS hereby sell, a	
entire and exclusive rights, title and interest in the (and APPLICATION DERIVATIVES);	ne invention and the Application
ASSIGNORS agree to execute all instrume	nts and documents required for the making
and prosecution of the APPLICATION (and APPL	
regarding letters patent derived therefrom, and for	r the purpose of protecting and perfecting
title to the APPLICATION (and APPLICATION D	DERIVATIVES).
DATE	Jeremy Guy
DINIL	Jordiny Guy
	. <b>v</b>
DATE	Sung Hyun Jo
DATE	H N
DATE	Hagop Nazarian
DATE	Ruchirkumar Shah
DATE	Liang Zhao

NAZARIAN ("ASSIGNOR"), Ruchirkumar SF ("ASSIGNOR") have invented subject matter ("IN patent application entitled "RESISTIVE RANDO ERASE TECHNIQUES AND APPARATUS" ("A	NVENTION") disclosed and/or claimed in a M ACCESS MEMORY PROGRAM AND APPLICATION"), which:  PATENT ASSIGNMENT. ASSIGNORS I representatives, of Wegman Hessler, 6053 and, Ohio 44131, who are associated with parenthesis (U.S. Serial No. 16/291,467 U.S. Serial Number and filing date, when
assigns ("ASSIGNEE"), is entitled to, and is desirights, title and interest in the INVENTION applications and patents derived therefrom, such United States, its territories, and all foreign countr For good and valuable consideration, the rathe ASSIGNORS, the ASSIGNORS hereby sell, entire and exclusive rights, title and interest in (and APPLICATION DERIVATIVES);	and the APPLICATION (and all other as continuing applications, in and for the as continuing applications, in and for the ies ("APPLICATION DERIVATIVES"); receipt of which is hereby acknowledged by assign and transfer to the ASSIGNEE, the the INVENTION and the APPLICATION ents and documents required for the making LICATION DERIVATIVES), for litigation or the purpose of protecting and perfecting
DATE	Jeremy Guy
	Sunghando
11/09/2020 DATE	Sung Hyun Jo
DATE	Hagop Nazarian
DATE	Ruchirkumar Shah
DATE	Liang Zhao

NAZARIAN ("ASSIGNOR"), Ruchin ("ASSIGNOR") have invented subject to patent application entitled "RESISTIVI ERASE TECHNIQUES AND APPARA will be filed without this hereby authorize, and request, ASSIGN Rockside Woods Boulevard, Ste. 200 customer number 129485, to insert filed March 4, 2019 this APPLIC known;	chumar SHAH ("ASSIGNOR"), and Liang ZHAC matter ("INVENTION") disclosed and/or claimed in a ERANDOM ACCESS MEMORY PROGRAM AND ATUS" ("APPLICATION"), which:  IS executed PATENT ASSIGNMENT. ASSIGNORS IEE'S legal representatives, of Wegman Hessler, 60530, Cleveland, Ohio 44131, who are associated with here in parenthesis (U.S. Serial No. 16/291,467) CATION'S U.S. Serial Number and filing date, when and was given U.S. Serial No.
assigns ("ASSIGNEE"), is entitled to, rights, title and interest in the INV applications and patents derived therefunited States, its territories, and all fore For good and valuable considers the ASSIGNORS, the ASSIGNORS he entire and exclusive rights, title and in (and APPLICATION DERIVATIVES)  ASSIGNORS agree to execute a and prosecution of the APPLICATION	orporation, on behalf of itself and its successors and and is desirous of acquiring, the entire and exclusive (ENTION and the APPLICATION (and all other from, such as continuing applications, in and for the eign countries ("APPLICATION DERIVATIVES"); ation, the receipt of which is hereby acknowledged by ereby sell, assign and transfer to the ASSIGNEE, the interest in the INVENTION and the APPLICATION; all instruments and documents required for the making (and APPLICATION DERIVATIVES), for litigation om, and for the purpose of protecting and perfecting
DATE	Jeremy Guy
DATE 11/9/2020	Sung Hyun Jo
DATE	Hagop Nazarian
DATE	Ruchirkumar Shah
DATE	Liang Zhao

NACARIAN ("ASSIDIVAR"), Ruchirkums ("ASSIGNOB") have invented subject matter patent application emitted "RESISTIVE RAI ERASE TECHNIQUES AND APPARATUS  will be filled without this erec hereby authorize, and request, ASSIGNEE'S Rockside Woods Boulevard, Ste. 200, Cle customer number 129483, to usert here , filed March 1, 2019 ) this APPLICATIC known;	) Simg Hyun JO ("ASSIGNOR"), Hagog SHAH ("ASSIGNOR"), and Liang ZHAO ("TNVENTION") disclosed and/or claimed in a NDOM ACCESS MEMORY PROGRAM AND "C"APPLICATION"), which: nuted PATENT ASSIGNMENT. ASSIGNORS legal representatives, of Wegman Hessier, 6053 veland, Ohio 44131, who are associated with m parenthesis (U.S. Serial No. 15/291.467 No. 8 U.S. Schal Number and filing date, when and was given U.S. Serial No.
is libed concurrently berowith:	
Crossins, Inc., a Cartomia Corporate assigns ("ASSIGNEE"), is entitled to, and is nights, title and interest in the INVENTI applications and patents derived therefrom, united States, its territories, and all foreign or For good and valuable consideration, the ASSIGNORS, the ASSIGNORS bereby mire and exclusive rights, title and interest and APPLICATION DERIVATIVES);  ASSIGNORS agrees to execute all instructed prosecution of the APPLICATION (and and prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution and prosecution of the APPLICATION (and assigned to execute all instructed prosecution of the APPLICATION (and assigned to execute all instructed prosecution and prosecution of the APPLICATION (and assigned to execute all instructed prosecution as a contracted prosecution and assigned prosecution and assigned prosecution as a contracted prosecution as a	ion, on behalf of itself and its successors and desirous of acquiring, the entire and exclusive ON and the APPLICATION (and all other such as continuing applications, in and for the santries ("APPLICATION DERIVATIVES"), the receipt of which is hereby acknowledged by sell, assign and transfer to the ASSIGNEE, the in the INVENTION and the APPLICATION runeats and documents required for the making APPLICATION DERIVATIVES), for linguishing after the purpose of protecting and perfecting ON DERIVATIVES).
DATE	Jerenty Cuy
DATE	Sung Hyun Jo
DATE	Hogop Nazarian
11/19/2020	RIC
DATÉ	Ruchirkumar Shah
DATE	Limo Thea

NAZARIAN ("ASSIGNOR"), Ruchirku ("ASSIGNOR") have invented subject ma patent application entitled "RESISTIVE I ERASE TECHNIQUES AND APPARAT	DR") Sung Hyun JO ("ASSIGNOR"), Hagopumar SHAH ("ASSIGNOR"), and Liang ZHAO atter ("INVENTION") disclosed and/or claimed in a RANDOM ACCESS MEMORY PROGRAM AND TUS" ("APPLICATION"), which: executed PATENT ASSIGNMENT. ASSIGNORS
hereby authorize, and request, ASSIGNEI Rockside Woods Boulevard, Ste. 200, customer number 129485, to insert he	E'S legal representatives, of Wegman Hessler, 6055 Cleveland, Ohio 44131, who are associated with ere in parenthesis (U.S. Serial No. 16/291,467 TION'S U.S. Serial Number and filing date, when
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DATE	Jeremy Guy
DATE	Sung Hyun Jo
DATE	Hagop Nazarian
DATE 03/24/2021	Ruchirkumar Shah
DATE	Liang Zhao

PATENT REEL: 057991 FRAME: 0926

**RECORDED: 11/02/2021**