505738129 10/23/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUN CHEN	04/11/2019
XIN CHEN	04/11/2019
DACHUANG SHI	04/11/2019
XUN CHEN	04/11/2019
QIANG LIU	04/11/2019
JIAN GAO	04/11/2019
CHENGQIANG CUI	04/11/2019

RECEIVING PARTY DATA

Name:	GUANGDONG UNIVERSITY OF TECHNOLOGY
Street Address:	NO. 729, DONGFENG EAST ROAD, YUEXIU DISTRICT
City:	GUANGZHOU, GUANGDONG
State/Country:	CHINA
Postal Code:	510062

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16383852

CORRESPONDENCE DATA

Fax Number:

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: 9175880481 **Email:** tonyhom@live.com

Correspondent Name: TONY HOM **Address Line 1:** 81 70 ST

Address Line 4: BROOKLYN, NEW YORK 112091113

ATTORNEY DOCKET NUMBER: WK19-YSY-GDGYDX-US-1049	
NAME OF SUBMITTER:	TONY HOM
SIGNATURE:	/Tony Hom/
DATE SIGNED:	10/23/2019

PATENT REEL: 050807 FRAME: 0759

Total Attachments: 7 source=ASSIGNMENTS-7inventors#page1.tif source=ASSIGNMENTS-7inventors#page2.tif source=ASSIGNMENTS-7inventors#page3.tif source=ASSIGNMENTS-7inventors#page4.tif source=ASSIGNMENTS-7inventors#page5.tif source=ASSIGNMENTS-7inventors#page6.tif source=ASSIGNMENTS-7inventors#page7.tif

PATENT REEL: 050807 FRAME: 0760

Attorney Docket Number	WK19-YSY-GDGYDX-US-1049
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING FILLING OF DIFFERENTIAL VIAS AND ELECTROPLATING DEVICE IMPLEMENTING SAME
WHEREAS	, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed the application identified by the title above. Guangdong University of Technology stal address of No. 729, Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong 510062
ASSIGNOR said invent division, cor supplement ASS prosecution additional difurther cons communical ASSIGNOR be required encompassibeirs, execu	as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States; N. THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, t, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to don and application throughout the United States of America, including any and all petents granted on any nitinualition, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or all examination thereof. BIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, and maintenance of said application or any other patent applications in the United States for said invention, including ocuments that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without ideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and te to ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and te to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within it's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent ed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's stors, administrators and other legal representatives. BIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents
use and bef which such and sale no	above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole noof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment to been made. SIGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information ment needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.
LEGAL NA	ME OF ASSIGNOR
Assignor:	CHEN,Yun Date: 04/11/2019
Signature;	<u>Ura Yun</u>

PAGE 1 OF 7

Attorney Docket Number	WK19-YSY-GDGYDX-US-1049
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING FILLING OF DIFFERENTIAL VIAS AND ELECTROPLATING DEVICE IMPLEMENTING SAME
WHEREAS Invention in	I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed the application identified by the title above.
WHEREAS,	Guangdong University of Technology
having a po	stal address of No. 729, Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong 510062
(referred to	as ASSIGNEE below) desires to acquire the entire right, titte, and interest in and to the same in the United States;
NOV ASSIGNOR said inventi division, con	V, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to on any application throughout the United States of America, including any and all patents granted on any tinuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or
additional de further consi communicat ASSIGNOR be required encompasse	IGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, and maintenance of said application or any other patent applications in the United States for said invention, including ocuments that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without deration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and a to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within a possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent did within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's long, administrators and other legal representatives.
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ASS in this docun	GNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information tent needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.
LEGAL NA	VIE OF ASSIGNOR
Assignor_	CHEN,Xin Date: 04/11/2019
Signature:	Charlor

PAGE 2 OF 7

Attorney Docket Number	WK19-YSY-GDGYDX-US-1049	
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPI ELECTROPLATING DEVICE IMPLEMENTING	ATING FILLING OF DIFFERENTIAL VIAS AND SAME
WHEREAS Invention in	and exhaustration promined by the title 90005.	joint inventor (referred to as ASSIGNOR below) of a claimed
WHEREAS	Guangdong University of Technolo	
having a po	stal address of No. 729, Dongfeng East Road, Yui	exiu District, Guangzhou City, Guangdong 510062
(referred to	as ASSIGNEE below) desires to acquire the entire rig	ht, title, and interest in and to the same in the United States;
said invent	ion and application throughout the United States	, the receipt and adequacy of which is hereby acknowledged, unto ASSIGNEE, the entire right, title, and interest in and to of America, including any and all patents granted on any ssue of said application, whether granted in an initial or
additional defurther cons communicat ASSIGNOR be required encompasse	ocuments that may be required to affirm the rights of A ocuments that may be required to affirm the rights of A ideration. ASSIGNOR also agrees, without further cor e to ASSIGNEE at ASSIGNEE's request documents a s possession or control, and to provide further assura of ASSIGNOR in respect of the proserution, maintens of ASSIGNOR in respect of the proserution.	t legally may be required in connection with the filing, ant applications in the United States for said invention, including ASSIGNEE in and to said invention and application, all without sideration and at ASSIGNEE's expense, to identify and and information concerning the invention that are within notes and testimony on behalf of ASSIGNEE that lawfully may ance and defense of any patent application or patent oligations under this instrument shall extend to ASSIGNOR's
use and beh	out; and for the use and behoof of ASSIGNEE's legat batent may be granted, as fully and entrely as the ear	ioner of Patents and Trademarks to issue any and all patents ight, title and interest in and to the same, for ASSIGNEE's sole representatives and successors, to the full end of the term for ne would have been held by ASSIGNOR had this assignment
ASS in this docur	GNOR authorizes Practitioners associated with the C nent needed to effect its recordal in the U.S. Patent ar	ustomer Number 133,035 to insert or complete any information and Trademark Office and to record the same.
LEGAL NA	ME OF ASSIGNOR	
Assignor: _	SHI,Dachuang	_{Date:} 04/11/2019
Signature:	SUI Duchny	

PAGE 3 OF 7

Attorney Docket Number	WK19-YSY-GDGYDX-US-1049
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING FILLING OF DIFFERENTIAL VIAS AND ELECTROPLATING DEVICE IMPLEMENTING SAME
WHEREAS	I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed the application identified by the title above. Guangdong University of Technology stal address of No. 729, Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong 510062
	as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States;
said invent	V. THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, , by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to ion and application throughout the United States of America, including any and all patents granted on any dimustion, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or
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ASS in this docum	IGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information nent needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.
LEGAL NA	ME OF ASSIGNOR
Assignor: _	CHEN,Xun Date: 04/11/2019
Signature:	Chan Zun

PAGE 4 OF 7

Attorney Docket Number	WK19-YSY-GDGYDX-US-1049
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING FILLING OF DIFFERENTIAL VIAS AND ELECTROPLATING DEVICE IMPLEMENTING SAME
WHEREAS	, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed the application identified by the title above. Guangdong University of Technology , stal address of No. 729, Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong 510062
NON ASSIGNOR said invent division, cor supplement ASS prosecution additional divither cons communicat ASSIGNOR be required	as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States; N. THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, to by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to ion and application throughout the United States of America, including any and all patents granted on any intinuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or all examination thereof. IGNOR hereby agrees to execute any documents that legally may be required in connection with the filling, and maintenance of said application or any other patent applications in the United States for said invention, including ocuments that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without ideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and te to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within 's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that tawfully may of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent ed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's
ASS referred to a use and bet which such and sale no	itors, administrators and other legal representatives. IIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole noof, and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment to been made. IIGNOR authorizes Practitioners associated with the Customer Number 133,035 to insert or complete any information nent needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.
LEGAL NA	ME OF ASSIGNOR
Assignor:	LIU,Qiang Date: 04/11/2019
Signature:	Cru Ony

PAGE 5 OF 7

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Attorney Docket Number	WK19-YSY-GDGYDX-US-1049	
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING I ELECTROPLATING DEVICE IMPLEMENTING SAME	FILLING OF DIFFERENTIAL VIAS AND
WHEREAS invention in	. I believe that I am the original inventor or an original joint inver the application identified by the title above.	ntor (referred to as ASSIGNOR below) of a claimed
WHEREAS	Guangdong University of Technology	
having a po	estal address of No. 729, Dengleng East Road, Yuexiu Dist	ict, Guangzhou City, Guangdong 510082
(referred to	as ASSIGNEE below) desires to acquire the entire right, title, a	nd interest in and to the same in the United States;
NON ASSIGNOR said invent division, cor	W. THEREFORE, for good and valuable consideration, the rece R, by these presents does sell, assign and transfer unto ASI tion and application throughout the United States of Americ ntinuation, continuation-in-part, reexamination, and reissue of sa tal examination thereof.	ipt and adequacy of which is hereby acknowledged. SIGNEE, the entire right, title, and interest in and to a, including any and all patents granted on any
prosecution additional d further cons communica ASSIGNOR be required encompass	SIGNOR hereby agrees to execute any documents that legally in and maintenance of said application or any other petent application to any other petent application to any other petent applications. ASSIGNE sideration. ASSIGNOR also agrees, without further consideration to the total accordance of the second of the provide further assurances and of ASSIGNOR in respect of the prosecution, maintenance and sed within the terms of this instrument. ASSIGNOR's obligations utors, administrators and other legal representatives.	ations in the United States for said invention, including E in and to said invention and application, all without and at ASSIGNEE's expense, to identify and nation concerning the invention that are within testimony on behalf of ASSIGNEE that lawfully may defense of any patent application or patent.
use and bei which such	SIGNOR hereby authorizes and requests the Commissioner of F above to ASSIGNEE, as the ASSIGNEE of the entire right, title hoof, and for the use and behoof of ASSIGNEE's legal represer patent may be granted, as fully and entirely as the same would at been made.	and interest in and to the same, for ASSIGNEE's sale
ASS in this docu	SIGNOR authorizes Practitioners associated with the Customer ment needed to effect its recordal in the U.S. Patent and Trader	Number 133, 5 to insert or complete any information mark Office and to record the same.
LEGAL N	AME OF ASSIGNOR	
Assignor		Date: 04/11/2019
Signature:		

PAGE 6 OF 7

Attorney Docket Number	WK19-YSY-GDGYDX-U5-1049
Title of Invention	METHOD FOR SYNCHRONOUS ELECTROPLATING FILLING OF DIFFERENTIAL VIAS AND ELECTROPLATING DEVICE IMPLEMENTING SAME
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having a po	ostal address of No. 729, Dongfeng East Road, Yuexiu District, Guangzhou City, Guangdong 510062
(referred to	as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States;
NOV ASSIGNOR sald invent division, cor	W. THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to ion and application throughout the United States of America, including any and all patents granted on any attituation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or
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LEGAL NAM	ME OF ASSIGNOR
Assignor	CUI,Chengqiang Date: 04/11/2019
Signature: _	An Chay ling

PAGE 7 OF 7

PATENT REEL: 050807 FRAME: 0767

RECORDED: 10/23/2019