### 502616707 12/30/2013

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2663301

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
HONGSHI SANG	11/28/2013
WEN WANG	11/28/2013
TIANXU ZHANG	11/28/2013
CHAOBING LIANG	11/28/2013
JING ZHANG	11/28/2013
YANG XIE	11/28/2013
YAJING YUAN	11/28/2013

#### RECEIVING PARTY DATA

Name:	HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY	
Street Address:	NO. 1037, LUOYU ROAD, HONGSHAN	
City:	WUHAN	
State/Country:	CHINA	
Postal Code:	430074	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14142987

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Address Line 4: HOUSTON, TEXAS 77079

ATTORNEY DOCKET NUMBER: WHHZ-01201-UUS PATENT

502616707 REEL: 031861 FRAME: 0059

NAME OF SUBMITTER:	LARRY CHEN	
Signature:	/Larry Chen/	
Date:	12/30/2013	
Total Attachments: 7 source=WHHZ-01201-UUS_Assignment#page1.tif source=WHHZ-01201-UUS_Assignment#page2.tif source=WHHZ-01201-UUS_Assignment#page3.tif source=WHHZ-01201-UUS_Assignment#page4.tif source=WHHZ-01201-UUS_Assignment#page5.tif source=WHHZ-01201-UUS_Assignment#page6.tif source=WHHZ-01201-UUS_Assignment#page7.tif		

PATENT REEL: 031861 FRAME: 0060

Attorney Docket Number	WHHZ-01201-UUS			
Title of Invention	RADIATION-HARDENED STORA	GE UNIT		
	5, I believe that I am the original inventor or an on the application identified by the title above.	riginal joint inventor (referred to as ASSIGNOR below) of a claimed		
WHEREAS	Huazhong University	of Science and Technology		
having a po	ostal address of No. 1037, Luoyu Roa	d, Hongshan, Wuhan, Hubei, China, 430074		
(referred to	as ASSIGNEE below) desires to acquire the e	ntire right, title, and interest in and to the same in the United States;		
ASSIGNOF said inven division, co	R, by these presents does sell, assign and tr tion and application throughout the United S	eration, the receipt and adequacy of which is hereby acknowledged, ansfer unto ASSIGNEE, the entire right, title, and interest in and to states of America, including any and all patents granted on any and reissue of said application, whether granted in an initial or		
prosecution additional of further con- communica ASSIGNOF be required encompass	ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.			
referred to use and be which such	above to ASSIGNEE, as the ASSIGNEE of the hoof, and for the use and behoof of ASSIGNEE	ommissioner of Patents and Trademarks to issue any and all patents entire right, title and interest in and to the same, for ASSIGNEE's sole 's legal representatives and successors, to the full end of the term for the same would have been held by ASSIGNOR had this assignment		
		th the Customer Number 33,794 to insert or complete any information atent and Trademark Office and to record the same.		
LEGAL N	AME OF ASSIGNOR			
Assignor:	Hongshi SANG	11/28/2013		
Signature	桑(1)石			

PAGE 1 OF 7

Attorney Docket Number	WHHZ-01201-UUS				
Title of Invention	RADIATION-HARDENED STORAGE UNIT				
	<ol> <li>I believe that I am the original inventor or an original joint invente application identified by the title above.</li> </ol>	ntor (referred to as ASSIGNOR below) of a claimed			
WHEREAS	Huazhong University of Science a	and Technology			
having a po	No. 1037, Luoyu Road, Hongsha	n, Wuhan, Hubei, China, 430074			
(referred to	as ASSIGNEE below) desires to acquire the entire right, title, a	and interest in and to the same in the United States;			
ASSIGNOR said invent division, co	NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.				
prosecution additional d further cons communica ASSIGNOF be required encompass	ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.				
ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.					
	SIGNOR authorizes Practitioners associated with the Customer iment needed to effect its recordal in the U.S. Patent and Trade				
LEGAL N	AME OF ASSIGNOR				
Assignor	Wen WANG	11/28/2013 Date:			
Signature	五之				

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Docket Number	WHHZ-0120	01-UUS				
Title of Invention	RADIATION	I-HARDENED S	TORAGE UNIT			
		am the original invento dentified by the title at		nventor (referred to as ASS	SIGNOR below) of a claimed	1
WHEREAS	1	Huazhong Univ	versity of Scienc	e and Technology		
having a po	ostal address of	No. 1037, Luoy	yu Road, Hongs	han, Wuhan, Hubei,	China, 430074	
(referred to	as ASSIGNEE b	elow) desires to acqu	ire the entire right, tit	e, and interest in and to th	e same in the United States;	
ASSIGNOR said invent division, con	R, by these pres- tion and applica	ents does sell, assig tion throughout the uation-in-part, reexan	n and transfer unto United States of An			
prosecution additional d further cons communica ASSIGNOR be required encompass	and maintenand locuments that m sideration. ASSIG Ite to ASSIGNEE S's possession or of ASSIGNOR in sed within the terr	ee of said application of ay be required to affir BNOR also agrees, with at ASSIGNEE's required control, and to provide the prosect of the prosect	or any other patent ap m the rights of ASSIC thout further consider est documents and in le further assurances cution, maintenance ASSIGNOR's obligat	SNEE in and to said invent ation and at ASSIGNEE's formation concerning the i and testimony on behalf o and defense of any patent	ates for said invention, includion and application, all witho expense, to identify and nvention that are within f ASSIGNEE that lawfully ma	out ay
referred to a use and bel which such	above to ASSIGN hoof; and for the	NEE, as the ASSIGNE use and behoof of AS	E of the entire right, SIGNEE's legal repr	title and interest in and to t esentatives and successor	ss to issue any and all paten he same, for ASSIGNEE's s s, to the full end of the term SIGNOR had this assignme	ole for
				mer Number 33,794 to inse ademark Office and to reco	ert or complete any informati ord the same.	on
LEGAL NA	AME OF ASSIGN	VOR				
Assignor:	Tianxu ZHAI	//G			3	
	. 41	<i>1</i> .				

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Docket Number	WHHZ-01201-UUS			
Title of Invention	RADIATION-HARDENED STORAGE UNIT			
	6, I believe that I am the original inventor or an original joint inventor (referred to as ASSIGNOR below) of a claimed on the application identified by the title above.			
WHEREAS	Huazhong University of Science and Technology			
having a po	No. 1037, Luoyu Road, Hongshan, Wuhan, Hubei, China, 430074			
(referred to	as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States;			
ASSIGNOF said inven division, co	W, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, R, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to tion and application throughout the United States of America, including any and all patents granted on any ontinuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or tall examination thereof.			
prosecution additional of further con- communica ASSIGNOF be required encompass	ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.			
referred to use and be which such	ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.			
ASS in this docu	SIGNOR authorizes Practitioners associated with the Customer Number 33,794 to insert or complete any information ument needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.			
LEGAL N.	AME OF ASSIGNOR			
Assignor:	Chaobing LIANG Date: 11/28/2013			
Signature	: Chaobing LZANG			

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Attorney Docket Number	WHHZ-01201-UUS			
Title of Invention	RADIATION-HARDENED STORAGE UNIT			
		m the original inventor or an origi lentified by the title above.	inal joint inventor (referred to as ASSIGNOR	below) of a claimed
WHEREAS	5,	Huazhong University of	Science and Technology	
having a po	ostal address of	No. 1037, Luoyu Road,	Hongshan, Wuhan, Hubei, China	, 430074
NOT ASSIGNOF said invent division, co supplement  ASS prosecution additional d further cons communica ASSIGNOF be required encompass heirs, execution  ASS referred to	(referred to as ASSIGNEE below) desires to acquire the entire right, title, and interest in and to the same in the United States;  NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and said invention and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part, reexamination, and reissue of said application, whether granted in an initial or supplemental examination thereof.  ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filling, prosecution and maintenance of said application or any other patent applications in the United States for said invention, includ additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention and application, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents.			ereby acknowledged, and interest in and to a granted on any d in an initial or  with the filing, aid invention, including application, all without to identify and that are within NEE that lawfully may on or patent end to ASSIGNOR's  e any and all patents for ASSIGNEE's sole
which such and sale no	use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.			
ASSIGNOR authorizes Practitioners associated with the Customer Number 33,794 to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office and to record the same.				
LEGAL N	AME OF ASSIGN	OR		
Assignor	Jing ZHANG		Date: 11/28/2013	
Signature	Jir 	g zHAXG		

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Attorney Docket Number	WHHZ-01201-U	JUS			
Title of Invention	RADIATION-HA	ARDENED STORAGE	UNIT		
		e original inventor or an originatied by the title above.	al joint inventor (referre	ed to as ASSIGNOR be	low) of a claimed
WHEREAS	, Hı	uazhong University of S	Science and Tecl	nnology	
having a po	stal address of No	o. 1037, Luoyu Road, H	longshan, Wuha	n, Hubei, China, <sup>∠</sup>	130074
(referred to	as ASSIGNEE below	) desires to acquire the entire r	ight, title, and interest	in and to the same in th	e United States;
ASSIGNOR said invent division, con	, by these presents ion and application	good and valuable consideration does sell, assign and transfe throughout the United States n-in-part, reexamination, and ref.	er unto ASSIGNEE, ti s of America, includin	<mark>he entire right, title, an</mark> ig any and all patents gr	d interest in and to anted on any
prosecution additional d further cons communica ASSIGNOR be required encompass	and maintenance of socuments that may be sideration. ASSIGNOF te to ASSIGNEE at All s possession or cont of ASSIGNOR in respect within the terms of	es to execute any documents the said application or any other paragraph of the rights of a second agrees, without further of SSIGNEE's request documents and to provide further assurpect of the prosecution, maintee this instrument. ASSIGNOR's and other legal representatives.	atent applications in the f ASSIGNEE in and to consideration and at Assaud information concurrances and testimony nance and defense of obligations under this	e United States for said said invention and app SSIGNEE's expense, to cerning the invention that on behalf of ASSIGNEI any patent application	invention, including lication, all without identify and at are within E that lawfully may or patent
referred to a use and bel which such	above to ASSIGNEE, noof; and for the use a	orizes and requests the Commi as the ASSIGNEE of the entire and behoof of ASSIGNEE's leg d, as fully and entirely as the s	e right, title and interes jal representatives and	st in and to the same, fo d successors, to the full	r ASSIGNEE's sole end of the term for
		ractitioners associated with the tits recordal in the U.S. Patent			
LEGAL NA	AME OF ASSIGNOR				
Assignor:	Yang XIE			1/28/2013	
Signature:	Ya	ng XIE			

PAGE **6** OF **7** 

<u> </u>			
Attorney Docket Number	WHHZ-01201-UUS		
Title of Invention	RADIATION-HARDENED STORAGE UNIT		
	, I believe that I am the original inventor or an original joint inve the application identified by the title above.	ntor (referred to as ASSIGNOR below) of a claimed	
WHEREAS	Huazhong University of Science a	and Technology	
having a po	No. 1037, Luoyu Road, Hongsha	n, Wuhan, Hubei, China, 430074	
(referred to	as ASSIGNEE below) desires to acquire the entire right, title, a	and interest in and to the same in the United States;	
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	SIGNOR authorizes Practitioners associated with the Customer ment needed to effect its recordal in the U.S. Patent and Trade		
LEGAL N	AME OF ASSIGNOR		
Assignor:	Yajing YUAN	Date: 11/28/2013	
Signature	Yajing YUAN		

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**RECORDED: 12/30/2013**