503562514 11/10/2015 PATENT ASSIGNMENT COVER SHEET

NEW ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:

EPAS ID: PAT3609141

NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY DA	ATA					
			Name			Execution Date
LEI XIE						11/04/2015
YAFENG YIN						11/04/2015
QUN LI						11/04/2015
SANGLU LU						11/04/2015
						•
Name:			NIVERSITY			
Street Address:	22 HAI	NKOU	ROAD			
City:	NANJI	NG, JI	ANGSU			
State/Country:	CHINA	\				
Postal Code:	210093					
Name:	COLLEGE OF WILLIAM AND MARY					
Street Address:	SAVAGE HOUSE, 519 RICHMOND RD					
City:	WILLIAMSBURG					
State/Country:	VIRGINIA					
Postal Code:	23187					
PROPERTY NUMBERS	Total: 1					
Property Type			Number			
		14936	6915			
CORRESPONDENCE D	ΑΤΑ					
Fax Number:		• •	816-4100			
			e-mail address first; if that hat is unsuccessful, it will b			
Phone:			164000			nam.
			us@nixonvan.com			
Correspondent Name: DOR		ROTHY DENG				
Address Line 1:		NIXO	N & VANDERHYE, 901 N. G	LEBE	RD	
Address Line 2: 11TH		11TH	1 FL			
Address Line 4:		ARLI	NGTON, VIRGINIA 22203			
ATTORNEY DOCKET NU	IMRER		JSP-6339-0002			
			000000002			

503562514

NAME OF SUBMITTER:	DOROTHY DENG	
SIGNATURE:	/Dorothy Deng/	
DATE SIGNED:	11/10/2015	
Total Attachments: 4 source=6339-2_Declaration_Executed#page1.tif source=6339-2_Declaration_Executed#page2.tif source=6339-2_Declaration_Executed#page3.tif source=6339-2_Declaration_Executed#page4.tif		

Doc code: Oath Document Description: Oath or declaration filed

<u>"</u>*

	Attorney Oocket Number	JSP-6339-0002
	First Named Inventor	Lei XIE
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY C USING AN APPLICATION DATA SH Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1	IEET (37 CFR 1.76)	JCATION (37 CFR 1.63)
SYSTEMS, METHODS AND TECHNIQUES FOR INPUTTING TE CAMERA-BASED KEYBOA	EXT INTO MOBILE DEVICI	ES USING A
(Tille of the Invention)		
As a below named inventor, I hereby declare that:		
This declaration is directed to: the attached application, or United States Application Number filed, or PCT International application number filed on		
The above-identified application was made or authorized to be mede by me.		
I believe I am the original inventor or an original joint inventor of a claimed inve	intion in the application.	
I hereby acknowledge that any willful failse statement made in this declaration by fine or imprisonment of not more than tive (5) years, or both		1001
WHEREAS, the undersigned (hereinalter ASSIGNOR), has made an invention in the Ap	plication identified above.	***************************************
WHEREAS. Nanjing University, a Corporation of P.R. Chine, having an office and place China; and		tanjing, Jiangsu, 210093, P. R.
College of William and Mary, a Virginia Corporation, having an office and place of busine 28187, United States of America	we al Savage House, 619 Richmi	nd Rd., Williamsburg, Virginia
(bereinaller ASSIGNEES)		
are desirous of accubing an interest therein;		
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and val hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assignt, and and legal representatives, ASSIGNOR'S entire right, title and interest in the United State described in the aforesaid application, and to the said application and to all subsequent of divisions, relistues, and subsitutes of said application, and all resulting patients, together the Protection of industrial Property, Inter-American Convention Relating to Fatents, Des agreements to which the United States of America adheres, and the ASSIGNOR hereby Trademarks to issue said Letters Patent to ASSIGNEES, for its interest as ASSIGNEES, understood and agreed that Nanjing University's attorneys fixon & Vanderhye P.C. have represent only Nanjing University with respect to this invention:	I transfers unto the and ASSIGNE s of America and all foreign court applications based thereon includi with the right of priority under the signs and industrial Models, and a sufficiences and requests the Com- their surcessors before and to	HES, their successors, assigns, ries, in and to the invention as ng any and all continuations, thismational Convention for ny other international missioner of Patents and
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEES, t further remuneration, in and to any improvements, and applications for patents based the	heir successors, assigns, and leg- moon, growing out of or related to	al representatives, and without the said invention;
ASSIGNOR hereby agrees to execute any papers by ASSIGNEES, their successors, as: ASSIGNEE'S full protection and tide in and to the invention hereby transferred; and	ligns, and legal representatives, d	eemed essential to
ASSIGNOR hereby agrees, upon request of ASSIGNEES, and without further remunerative filling and granting of foreign applications and the perfecting of title thereto in ASSIGN	ion, to execute any and all papers IEES.	desired by ASSIGNEES, for
AGREED and executed as noted below:		
LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (lirst and middle (if any)) and Family Name or Sumame)		
(.si X)E		
Inventor's Signature:	Cate: ンの(く / 1)	14
Winessed by:		
Name: Wei Woung		
Signature of witness:	Date: 2 * 15 /	11.14
<i>V O</i>		

I/We acknowledge the duty to disclose information which is material to the pateniability of this application as defined in 37 CFR §1.56.

PATENT REEL: 037000 FRAME: 0954

Doc code: Oath

es.

Document Description: Oath or declaration filed

	Attomey Docket Number	JSP-6339-0002		
	First Named Inventor	LeiXIE		
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY O USING AN APPLICATION DATA SH	R DESIGN PATENT APP(IEET (37 CFR 1.76)	LICATION (37 CFR 1.63)		
Declaration Submitted With Initial Filing OR				
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1	.16(f)) required)			
SYSTEMS, METHODS AND TECHNIQUES FOR INPUTTING TE CAMERA-BASED KEYBOAI		ES USING A		
(Title of the Invention)				
As a below named inventor, I hereby declare that:				
This declaration is directed to: United states Application, or United States Application Number filed , or PCT International application number filed on	×			
The above-identified application was made or authorized to be made by me.				
I believe I am the original inventor or an original joint inventor of a claimed inve	ntion in the annihation			
I hereby acknowledge that any willful false statement made in this declaration i by fine or imprisonment of not more than five (5) years, or both		1001		
WHEREAS, the undersigned (heminafter ASSIGNOR), has made an invention in the Ap	plication identified above.			
WHEREAS, Nanjing University, a Corporation of P.R. China, having an office and place Ohina; and		Nanjing, Jiangsu, 210093, P. R.		
College of William and Mary, a Virginia Corporation, having an office and place of busine 23187, United States of America	ss at Savage House, 519 Richmo	nd Rd., Williamsburg, Virginia		
(hereinafter ASSIGNEES)				
are destrous of acquiring an interest therein;				
NOW, THEREFORE, in consideration of Ten Dottars (\$10.00) and/or other good and valit hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and and legal representatives, ASSIGNOR'S entire right, title and interest in the United States described in the aforesaid application, and to the said application and to all subsequent a divisions, releases, and substitutes of said application, and all resulting patents, together the Protection of Industrial Property, Imer-American Convention Relating to Patents. Des agreements to which the United States of American adheres, and the ASSIGNOR hereby Trademarks to issue said Letters Patent to ASSIGNEES, for its interest as ASSIGNEES, understood and agreed that Nanjing University's attorneys Nixon & Vanderhys P.C. have represent only Nanjing University with respect to this invention;	I transfers unto the said ASSIGNE 5 Of America and all foreign court pplications based therean includi with the right of priority under the igne and industrial Models, and a authorizes and requests the Com-	ES, their successors, assigns, riss, in and to the invention as ng any and all continuations, International Convention for ny other international missioner of Patients and missioner of Patients and missioner of Patients and		
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEES, a further remuneration, in and to any improvements, and applications for patents based the	reon, growing out of or related to	the said invention;		
ASSIGNOR hereby agrees to execute any papers by ASSIGNEES, their successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and table in and to the invention hereby transferred; and				
ASSIGNOR hereby agrees, upon request of ASSIGNEES, and without further remunarati the filing and granting of foreign applications and the perfecting of file thereto in ASSIGN	ion, to execute any and all papers EES.	desired by ASSIGNEES, for		
AGREED and executed as noted below:				
LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Sumame)				
Yafarış YIN				
Inventor's Signature Yaleni Yin	Caie: 20/\$ /	41/4		
Witnessed try:		***************************************		
Name:				
Signature of witness:		11/4 l		
		interiority		

IAVe acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

PATENT REEL: 037000 FRAME: 0955

	Attorney C	locket Number	JSP-6339-0002		
	First Name	ed Inventor	Lei XIE		
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)					
USING AN APPLICATION DATA SHI	eei (37 G	rn 1./8)			
OR					
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.	16(f)) requi	red)			
SYSTEMS, METHODS AND TECHNIQUES FOR INPUTTING TE CAMERA-BASED KEYBOAR		IOBILE DEVICE	S USING A		
(Title of the Invention)			J.		
As a below named inventor, I hereby declare that:					
This declaration is directed to: the attached application, or United States Application Number filed, or PCT International application number filed on					
The above-identified application was made or authorized to be made by me.					
I believe I am the original inventor or an original joint inventor of a claimed inver	ntion in the a	application.			
I hereby acknowledge that any willful false statement made in this declaration is by fine or imprisonment of not more than five (5) years, or both.	; punishable	under 18 U.S.C.	1001		
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the App	slication identi	fled above.			
WHEREAS, Nanjing University, a Corporation of P.R. China, having an office and place of China; and	of business at	22 Hankou Road, N	anjing, Jiangsu, 210093, P. R.		
College of William and Mary, a Virginia Corporation, having an office and place of business at Savage House, 519 Richmond Rd., Williamsburg, Virginia 23187, United States of America					
(hereinafter ASSIGNEES)					
are desirous of acquiring an interest therein;					
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEES, their successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEES, for its interest as ASSIGNEES, their successors, assigns, and legal representatives. It is understood and agreed that Nanjing University's attorneys Nixon & Vanderhye P.C. have represented only Nanjing University and will continue to represent only Nanjing University with respect to this Invention;					
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEES, their successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;					
ASSIGNOR hereby agrees to execute any papers by ASSIGNEES, their successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and					
ASSIGNOR hereby agrees, upon request of ASSIGNEES, and without further remuneration, to execute any and all papers desired by ASSIGNEES, for the filing and granting of foreign applications and the perfecting of tille thereto in ASSIGNEES.					
AGREED and executed as noted below:					
Legal Name of Additional Joint Inventor, if any:					
(E.g., Given Name (first and middle (if any)) and Family Name or Sumame) Oun LI					
Inventor's Signature:		Date: 11/4	12015		
Witnessed by: Name: XIA Lita					
		3			
Signature of witness: 2011		Date: 11/4/	2015		

I/We acknowledge the duty to disclose information which is material to the patentability of this applicat BATEINT in 37 CFR §1.56. REEL: 037000 FRAME: 0956 Dec code: Oath Document Description: Oath or declaration filed

 $\mathcal{P}^{\mathbf{N}}$

	Attomey Oocket Number	JSP-6339-0002		
	First Named Inventor	Lei XIE		
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OF USING AN APPLICATION DATA SH Declaration Submitted With Initial Filing	R DESIGN PATENT APPI EET (37 CFR 1.76)	JCATION (37 CFB 1.63)		
OR ~				
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.				
SYSTEMS, METHODS AND TECHNIQUES FOR INPUTTING TE CAMERA-BASED KEYBOAR	XT INTO MOBILE DEVICI	ES USING A		
(This of the Invention)				
As a below named inventor, I hereby declare that:				
This declaration is directed to: the attached application, or United States Application Number filed, or PCT International application number filed on				
The above-identified application was made or authorized to be made by me.				
I believe I am the original inventor or an original joint inventor of a claimed inven	tion in the application.			
I hereby acknowledge that any willful false statement made in this declaration is by line or imprisonment of not more than five (5) years, or both.	punishable under 16 U.S.C.	1001		
WHEREAS, the undersigned (hereinaliter ASSIGNOR), has made an invention in the App	lication Identified above.			
WHEREAS, Nanjing University, a Corporation of P.R. China, having an office and place of China; and				
College of William and Mary, a Virginia Corporation, having an office and place of business at Savage House, 519 Richmond Rd., Williamsburg, Virginia 23187, United States of America				
(hereineller ASSICNEES)				
are desirous of acquiring an interest therein;				
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and auticlency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEES, their successors, assigns, and legal representatives. ASSIGNCR's entire right, tills and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, response, and substitutes of said application, and all resulting part and to the invention as described in the aforesaid application, and all resulting patients, together with the right of priority under the international Convention for the Protection of Industrial Property, inter-America adheres, and the ASSIGNCR hereby authorizes and requests the Commissioner of Patients and Trademarks to based all cleaters patient to ASSIGNEES, for its interest as ASSIGNEES, their successors, assigns, and agreed that Nanjing University's anomeys Nixon & Vanderity P.C. have represented only Nanjing University and will curificue to represent only Nanjing University will respect to this invention;				
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEES, their successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;				
ASSIGNOR hereby agrees to execute any papers by ASSIGNEES, their successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and				
ASSIGNOR hereby sprees, upon request of ASSIGNEES, and without further remuneration, to execute any and all pepere desired by ASSIGNEES, for the filing and granting of foreign applications and the perioding of title thereto in ASSIGNEES.				
AGREED and executed as noted below:				
Legal Name of Additional Joint Inventor, if any: (E.g., Given Name (first and middle (if any)) and Family Name or Sumame) Sanclu LU		······		
inventor's Biogeture:	Cats:			
Janh Li	2018/11	<u>/ x</u>		
Witnessed by: Nemes Wei Wong				
Signature of witness:	Date: 0.0 (67	/11/4		

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CPR §1.56.

RECORDED: 11/10/2015

PATENT REEL: 037000 FRAME: 0957