504993225 07/08/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5039973

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOYUE XIE	11/26/2014
RAHUL MARWAH	12/04/2014
JOHN JACOB NELSON	12/02/2014
IVAN ANDREW MCCRACKEN	11/25/2014
DAVID OTTO WHITT III	11/25/2014

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16022659

CORRESPONDENCE DATA

Fax Number: (509)755-7252

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: 509-755-7262

Email: usdocket@microsoft.com

Correspondent Name: WOLFE-SBMC

116 W. PACIFIC AVE. Address Line 1:

SUITE 200 Address Line 2:

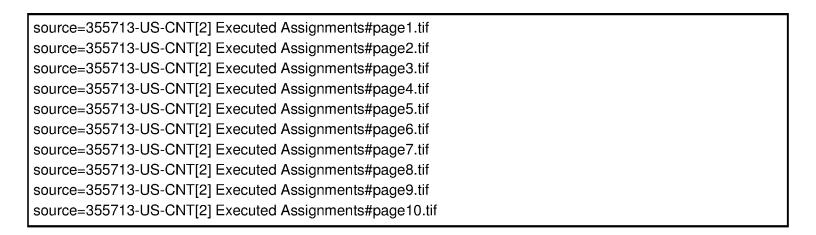
SPOKANE, WASHINGTON 99201 Address Line 4:

Total Attackments 40	•
DATE SIGNED:	07/08/2018
SIGNATURE:	/Christopher J. Culberson/
NAME OF SUBMITTER:	CHRISTOPHER J. CULBERSON
ATTORNEY DOCKET NUMBER:	355713-US-CNT[2]

Total Attachments: 10

PATENT REEL: 046287 FRAME: 0979

504993225



PATENT REEL: 046287 FRAME: 0980

I <u>Xiaoyue Xie</u> ("ASSIGNOR") am the original inventor or an original joint inventor
of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled
"Touch Input Device in a Circuit Board" ("APPLICATION"), which:

\times	will	be	filed.	ASSIGNOR	hereby	autho	rizes,	and	requ	uests,
	ASSI	GNEI	E'S legal	representa	tive, Micı	rosoft	Techno	ology	Licer	nsing,
	LLC.	, One	e Micros	oft Way, Red	mond, W	ashingt	ton 980)52 (A	\SSIG	NEE'S
	LEGA	AL R	EPRESEN	ITATIVES),	to insert	here	in par	renthe	eses	(filed
	on <u>I</u>	Dece	mber 4, 2	<u>014 </u> and gi	ven Appli	ication	No. <u>14</u>	/561,0	14	by
	the f	follo	wing Off	ice	J	J S) this
	APPL	.ICA	ΓΙΟΝ's A	pplication N	o., filing o	date, ar	nd Offic	e, wh	en kr	nown;
	was	filed	on		and was	given A	pplicat	tion		
	No_			by the f	following	Office				
	"									

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office
15/723,895	October 3, 2017	US
16/022,659	June 28, 2018	US

MS Docket No.: <u>355713.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees 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).

3 3 12 4	11/26/2014
Inventor's Signature	Date
Xiaoyue Xie	解晓月
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Rahul Marwah</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>Touch Input Device in a Circuit Board</u>" ("APPLICATION"), which:

\times	will	be	filed.	ASSIGNOR	hereby	author	izes,	and	requ	uests,
	ASSI	GNEI	E'S legal	representa	tive, Mici	rosoft T	echno	ology	Licer	nsing,
	LLC.	, One	e Micros	oft Way, Rec	lmond, W	ashingto	on 980)52 (A	SSIG	NEE'S
	LEGA	AL R	EPRESEN	ITATIVES),	to insert	here i	n pai	renthe	eses	(filed
	on <u>I</u>	Decer	nber 4, 20	<u>014</u> and gi	ven Appli	ication N	No. <u>14</u>	/561,0)14	by
	the f	follov	wing Off	ice	U	S) this
	APPL	.ICA	ΓΙΟΝ's A	pplication N	o., filing (date, and	d Offic	e, wh	en kı	nown;
	was	filed	on		and was	given Ap	plicat	tion		
	No_			by the	following	Office				
	"									

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office
15/723,895	October 3, 2017	US
16/022,659	June 28, 2018	US

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees 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).

pu	12/4/2014
Inventor's Signature	Date
Rahul Marwah	
Printed Name in English	Printed Name in Native Language
	(if other than English)

) disclosed and/or claimed <u>pard</u> " ("APPLICATION"), whic	in a patent application entitle ch:
	legal representation Microsoft Way, Representative December 4, 2014 following Office	SNOR hereby authorizes, and ve, Microsoft Technology edmond, Washington 9805 ES), to insert here in and given Application No US ug date, and Office, when kno	Licensing, LLC., One 2 (ASSIGNEE'S LEGAL parentheses (filed on 14/561,014 by the) this APPLICATION's
	was filed onby	and was given Appli the following Office "	ication No
of itself and acquiring, the NVENTION a such as contir	its successors and entire and exclusive and the APPLICATIO nuing applications, in	assigns ("ASSIGNEE"), is e rights, title and interest, ind DN (and all other application	mited liability company, on beha entitled to, and is desirous of cluding the right of priority, in the s and patents derived therefrom the United States, its territories
REPRESENT	ATIVES to insert the		ests, ASSIGNEE'S LEGA and Office into the following table
Application No),	Filing Date	Office
		October 3, 2017	US
16/022,6	559	June 28, 2018	US

I John Jacob Nelson ("ASSIGNOR") am the original inventor or an original joint inventor

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees 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).

MS Docket No.: 355713.01

Inventor's Signature

John Jacob Nelson Printed Name in English Date

12/2/14

Printed Name in Native Language (if other than English)

.

I <u>Ivan Andrew McCracken</u> ("ASSIGNOR") am the original inventor or an origina
joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a paten
application entitled "Touch Input Device in a Circuit Board" ("APPLICATION"), which:

X	will	be	filed.	ASSI	GNOR	hereby	auth	orizes,	and	requ	uests,
	ASSI	GNE	E'S lega	l repre	senta	tive, Mic	rosoft	Techno	ology	Licer	nsing,
	LLC.	, On	e Micros	oft Wa	y, Red	mond, W	ashing'	iton 980	052 (A	ASSIG	NEE'S
	LEGA	AL R	REPRESEN	NTATIV	'ES), t	o insert	here	in pa	renthe	eses	(filed
	on _l	Dece:	mber 4, 2	<u>2014 </u>	and gi	ven Appl	ication	No. <u>1</u> 4	4/561,0)14	by
	the	follo	wing Off	fice			US				_) this
	APPL	_ICA	TION's A	pplicat	tion No	o., filing	date, a	nd Offi	ce, wh	en kı	nown;
	was	filed	on			and was	given /	Applica	tion		
	No_			b	y the f	ollowing	Office	:			
	"					<u>"</u> ,					

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

AT LICATION DERIVATIVES unter they are known,					
Application No.	Filing Date	Office			
15/723,895	October 3, 2017	US			
16/022,659	June 28, 2018	US			

Page 1 of 2

MS Docket No.: <u>355713.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees 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).

1.12.2	25-11 2014		
Inventor's Signature	Date		
Ivan Andrew McCracken			
Printed Name in English	Printed Name in Native Language (if other than English)		

inventor of	subject matter	("INVENTION	") disclosed	and/or	claimed	in a p	oatent
application e	entitled " <u>Touch In</u>	put Device in	<u>a Circuit Boa</u>	<u>rd</u> " ("APPI	LICATION'), which	1 :
\boxtimes	will be filed.	ASSIGNOR	hereby aut	thorizes,	and red	ļuests,	
	ASSIGNEE'S lega	ıl representat	ive, Microso	ft Techno	ology Lice	nsing,	
	LLC., One Micro	soft Way, Redr	nond, Washii	ngton 980	052 (ASSI	SNEE'S	
	LEGAL REPRESE	NTATIVES), to	o insert her	e in pa	rentheses	(filed	
	on December 4, 2	<u>2014 </u>	en Application	on No. <u>14</u>	/561,014	by	
	the following Of	fice	US			_) this	
	APPLICATION's	Application No	., filing date,	, and Offic	ce, when k	nown;	
	was filed on	a	nd was give	n Applica [.]	tion		

No ______ by the following Office

I David Otto Whitt, III ("ASSIGNOR") am the original inventor or an original joint

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

ATTECATION DERIVATIVES after they are known,					
Application No.	Filing Date	Office			
15/723,895	October 3, 2017	US			
16/022,659	June 28, 2018	US			

Page 1 of 2

MS Docket No.: <u>355713.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees 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).

1200 (Tal)	F 11-25-14
Inventor's Signature	Date
David Otto Whitt, III	
Printed Name in English	Printed Name in Native Language
	(if other than English)

RECORDED: 07/08/2018