504200884 01/27/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4247560

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTIAN KLEIN	11/03/2016
ROB DISANO	11/03/2016
KEN M. SADAHIRO	11/03/2016
GREGG WYGONIK	11/03/2016
ROY BERGER	11/03/2016
ROBERT D. STEEN	11/03/2016

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:	15418133

CORRESPONDENCE DATA

Fax Number: (832)375-0202

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: 425-707-9382

Email: usdocket@microsoft.com, vicki.kubitskey@iiplg.com

MICROSOFT CORPORATION **Correspondent Name:**

ONE MICROSOFT WAY Address Line 1:

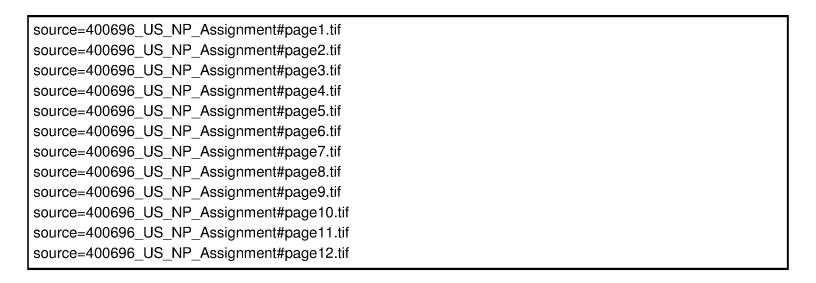
Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	400696-US-NP
NAME OF SUBMITTER:	BARRY D. BLOUNT
SIGNATURE:	/Barry D. Blount, Reg. #35,069/
DATE SIGNED:	01/27/2017

Total Attachments: 12

PATENT REEL: 041109 FRAME: 0705

504200884



PATENT REEL: 041109 FRAME: 0706 I <u>Christian Klein</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>DETECTING INPUT BASED ON A CAPACITIVE PATTERN</u>" ("APPLICATION"), which:

X	will	be	filed.	ASSIGN	OR	hereby	autho	rizes,	and	requ	ests,
	ASSI	GNE	E'S lega	al represe	nta	tive, Micı	osoft ⁻	Techno	ology	Licen	sing,
	LLC,	One	Micros	oft Way, I	Redi	mond, Wa	ashingt	on 980)52 (A	\SSIGN	NEE'S
	LEGA	AL R	EPRESE	NTATIVES), t	o insert	here	in pai	renthe	eses	(filed
	on _			an	d gi	ven Appli	cation	No			by
	the	foll	owing	Office _)	this
	APPL	_ICA	TION's A	Applicatio	n No	o., filing o	date, an	d Offic	e, wh	en kn	own;
	was	filed	on		•	and was 🤉	given A	pplicat	tion		
	No_			by t	he f	ollowing	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

Christian Rhi	11-3-16
Inventor's Signature	Date
Christian Klein	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Rob Disano</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETECTING INPUT BASED ON A CAPACITIVE PATTERN" ("APPLICATION"), which:

X	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	reque	sts,
	ASSI	GNE	E'S lega	l representa	tive, Micı	osoft Techn	ology	Licensi	ng,
	LLC,	One	Micros	oft Way, Red	mond, Wa	ashington 98	052 (A	SSIGNE	EE'S
	LEGA	AL R	EPRESE	NTATIVES), 1	o insert	here in pa	renthe	eses (fi	iled
	on _			and gi	ven Appli	ication No			_ by
	the	foll	owing	Office) t	this
	APPL	ICA7	ΓΙΟΝ's <i>A</i>	Application N	o., filing o	date, and Offi	ce, wh	en kno	wn;
	was	filed	on		and was	given Applica	tion		
	No _			by the f	ollowing	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

	11/3/2016
Inventor's Signature	Date
Rob Disano	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Ken M. Sadahiro</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>DETECTING INPUT BASED ON A CAPACITIVE PATTERN</u> " ("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application No by the following Office) this APPLICATION's Application No., filing date, and Office, when known;
was filed on and was given Application 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

	NOV3,2016.
Inventor's Signature	Date
Ken M. Sadahiro	黄蛋 賢
Printed Name in English	Printed Name in Native Language
	(If other than English)

I <u>Gregg Wygonik</u> ("ASSIC inventor of subject matter ("application entitled " <u>DETECTI</u> ("APPLICATION"), which:	INVENTION") disclosed a	•
ASSIGNEE'S legal r LLC, One Microsoft LEGAL REPRESENT on the following Of	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washing ATIVES), to insert here and given Application office	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed Noby) this
	and was given A by the following Office ";	
Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and exc priority, in the INVENTION and to derived therefrom, such as cont United States, its territories, and	s and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all c cinuing applications, in wh	terest, including the right of other applications and patents nole or in part, in and for the
•	•	EE'S LEGAL REPRESENTATIVES
to insert the Application No., f APPLICATION DERIVATIVES after		o the following table for any
Application No.	Filing Date	Office

	11/3/16
Inventor's signature	Date /
Gregg Wygonik	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Roy Berger</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETECTING INPUT BASED ON A CAPACITIVE PATTERN" ("APPLICATION"), which:

will	be	filed.	ASSIGNOR	hereby	authorizes	, and	reques	ts,
ASSI	GNE	E'S lega	l representa	tive, Micı	osoft Techi	nology	Licensir	ng,
LLC,	One	Micros	oft Way, Red	mond, Wa	ashington 9	8052 (A	SSIGNE	E'S
LEG/	AL R	EPRESE	NTATIVES),	to insert	here in p	arenthe	eses (fil	led
on _			and g	iven Appli	ication No			by
the	foll	owing	Office) tl	his
APPL	_ICA	ΓΙΟΝ's A	Application N	o., filing (date, and Of	fice, wh	en knov	vn;
was	filed	on		and was	given Applic	ation		
No_			by the	following	Office			
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	ASSI LLC, LEGA on _ the APPI was	ASSIGNED LLC, One LEGAL ROON the foll APPLICATION Was filed NO	ASSIGNEE'S legal LLC, One Micros LEGAL REPRESEI on the following APPLICATION's A was filed on No No	ASSIGNEE'S legal representa LLC, One Microsoft Way, Red LEGAL REPRESENTATIVES), to on and githe following Office APPLICATION's Application N was filed on by the following of the second sec	ASSIGNEE'S legal representative, Microsoft Way, Redmond, Water Legal Representatives, to insert on and given Applitude following Office APPLICATION's Application No., filing of was filed on and was on by the following	ASSIGNEE'S legal representative, Microsoft Technel LLC, One Microsoft Way, Redmond, Washington 9 LEGAL REPRESENTATIVES), to insert here in pon and given Application No the following Office APPLICATION's Application No., filing date, and Office was filed on and was given Application No by the following Office	ASSIGNEE'S legal representative, Microsoft Technology LLC, One Microsoft Way, Redmond, Washington 98052 (A LEGAL REPRESENTATIVES), to insert here in parenthe on and given Application No the following Office APPLICATION's Application No., filing date, and Office, who was filed on and was given Application No by the following Office	APPLICATION's Application No., filing date, and Office, when know was filed on and was given Application 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

B B	11/3/2-016
Inventor's Signature	Date
Roy Berger	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Robert D. Steen</u> ("ASSI inventor of subject matter ("application entitled " <u>DETECTI</u> ("APPLICATION"), which:	INVENTION") disclosed a	·
ASSIGNEE'S legal in LLC, One Microsoft LEGAL REPRESENT on the following O	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washing ATIVES), to insert here and given Application ffice	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No by) this
	and was given A by the following Office ";	
Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and ex- priority, in the INVENTION and t derived therefrom, such as cont United States, its territories, and	s and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all c tinuing applications, in wh	nterest, including the right of other applications and patents nole or in part, in and for the
,	• •	IEE'S LEGAL REPRESENTATIVES
to insert the Application No., f APPLICATION DERIVATIVES after	-	o the following table for any
Application No.	Filing Date	Office
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	11/3/16
Inventor's Signature	Date
Robert D. Steen	
Printed Name in English	Printed Name in Native Language
	(if other than English)