10/22/2015 503535560

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3582187

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ALEXANDER COLL	03/31/2014
FLORIN FOLTA	03/31/2014
YAN KE	03/27/2014
JINGFENG LI	03/31/2014
VENKAT SANKEPALLY	04/01/2014
SUBHOJIT SOM	03/27/2014
ZE TIAN	03/27/2014

# **RECEIVING PARTY DATA**

Name:	MICROSOFT CORPORATION	
Street Address: ONE MICROSOFT WAY		
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14243340

# **CORRESPONDENCE DATA**

Fax Number: (816)421-5547

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 816-474-6550 Email: lcook@shb.com

SHOOK, HARDY & BACON LLP (MTL) **Correspondent Name:** 

2555 GRAND BOULEVARD Address Line 1:

Address Line 2: INTELLECTUAL PROPERTY DEPARTMENT

Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	340972.01/MFCP.201757
NAME OF SUBMITTER:	TAWNI L. WILHELM
SIGNATURE:	/TAWNI L. WILHELM/
DATE SIGNED:	10/22/2015

PAIENI REEL: 036858 FRAME: 0416 503535560

# Total Attachments: 14 source=Fully\_Executed\_Assignment\_MFCP\_201757#page1.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page2.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page3.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page4.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page5.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page6.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page7.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page8.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page9.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page10.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page11.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page12.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page13.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page13.tif source=Fully\_Executed\_Assignment\_MFCP\_201757#page14.tif

PATENT REEL: 036858 FRAME: 0417

MS Docket No. 340972.01 (OC Docket No. MFCP.201757

# **PATENT ASSIGNMENT**

	NVENTION") disclosed and	al inventor or an original join for claimed in a nonprovisiona PPLICATION"), which:
2555 Grand B associated with REPRESENTATIVE on April 2, No. 14/2 Office United State	l representatives, of Shool lvd., Kansas City, Miss customer number 458 (S), to insert here	ouri 64108, who are 09 (ASSIGNEE'S LEGAL in parentheses (filed given Application the following _) this APPLICATION's en known;
successors and assigns ("ASS entire and exclusive rights, to (and all other applications applications, in and for the ("APPLICATION DERIVATIVES")	IGNEE"), is entitled to, and tle and interest in the INV and patents derived th United States, its territor ;	on, on behalf of itself and itself is desirous of acquiring, the /ENTION and the APPLICATION erefrom, such as continuing ies, and all foreign countries wests, ASSIGNEE'S LEGAL
•	the Application No., filir	ng date, and Office into the
Application No.	Filing Date	Office

Page 1 of 2

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Le Ell	MAR 31/2014
Inventor's Signature	Date
ALEXANDER COLL	
Printed Name in English	Printed Name in Native Language (if other than English)

inventor of s	ubject matter ("IN'		inventor or an original joint or claimed in a nonprovisional PLICATION"), which:
	ASSIGNEE'S legal 2555 Grand Blv associated with REPRESENTATIVES on April 2, 2 No. 14/243 Office United State Application No., f	and 340 by es Patent & Trademark Office iling date, and Office, whe	, Hardy & Bacon L.L.P., puri 64108, who are 09 (ASSIGNEE'S LEGAL n parentheses (filed given Application the following ) this APPLICATION's n known;
	was filed on No.	and w by the ";	as given Application following Office
successors a entire and e (and all oth applications,	and assigns ("ASSIG xclusive rights, tit her applications a	GNEE"), is entitled to, and le and interest in the INV and patents derived the	n, on behalf of itself and its is desirous of acquiring, the ENTION and the APPLICATION erefrom, such as continuing les, and all foreign countries
REPRESENTA	TIVES to insert t	authorizes, and requ he Application No., filin TION DERIVATIVES after th	g date, and Office into the
Application I	No.	Filing Date	Office
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Page 1 of 2

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

HAH	03/31/2014
Inventor's Signature	Date
FLORIN FOLTA	
Printed Name in English	Printed Name in Native Language
	(if other than English)

1	<u>YAN</u>	<u>KE</u>	("ASSI	GNOR")	am the o	riginal inv	entor or	an or	iginal	joint inve	entor of
subject	matt	er (	("INVE	NTION")	disclose	d and/or	claimed	in a	nonpi	rovisional	patent
applicat	tion e	ntitl	led " <u>R</u> l	<u>EFERENC</u>	<u>E RESOLU</u>	TION" ("A	PPLICATION	ΟN"), ι	which:		
	$\boxtimes$	will	l be	filed.	ASSIGNO	OR hereb	y autho	rizes,	and	requests	,
		ASS	SIGNE	E'S legal	represen	tatives, o	f Shook,	Hardy	& Ba	con L.L.P.	,

ASSIGNEE'S legal representatives,	of Shook,	Hardy & Ba	acon L.L.P.,
2555 Grand Blvd., Kansas Ci	ty, Missou	ıri 64108,	who are
associated with customer num	ber 45809	ASSIGNE	E'S LEGAL
REPRESENTATIVES), to insert	here in	parenthe	ses (filed
on April 2, 2014	and g	given .	Application
No. <u>14/243,340</u>	by	the	following
Office United States Patent & Tradema	rk Office	this APP	LICATION's
Application No., filing date, and O	ffice, when	known;	
was filed on	and wa	s given	Application
Noby	the	following	Office
	,		

Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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;

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Page 1 of 2

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Yn	3/27/2014
Inventor's Signature	Date
Yan Ke	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	I IIIV	<u>GFENG</u>	<u>LI</u> ("ASS	IGNOR"	) am	the o	original	inventor	or	an	original	joint i	nventor
of	subject	matter	("INVEN	TION")	disc	osed	l and/or	claimed	lin	a	nonprov	isiona	l patent
ap	plication	entitle	d " <u>REFE</u> F	RENCE P	₹ESO	LUTIO	<u> </u>	PLICATIO	N")	), W	hich:		

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Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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	
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Page 1 of 2

6224546 v1

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 in the INVENTION and the APPLICATION (and 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).

フェリー 3/31/2514
Inventor's Signature Date

Jingfeng ム; ままま

Printed Name in English Printed Name in Native Language (if other than English)

I VENI	KAT SANKEPALLY (	"ASSIGNOR") am the origin	nal inventor or an original joint			
			or claimed in a nonprovisional			
		ERENCE RESOLUTION" ("AI				
$\boxtimes$	will be filed.	ASSIGNOR hereby auth	orizes, and requests,			
	ASSIGNEE'S legal	representatives, of Shook	r, Hardy & Bacon L.L.P.,			
	2555 Grand Bl	vd., Kansas City, Misso	ouri 64108, who are			
	associated with	customer number 4580	09 (ASSIGNEE'S LEGAL			
	REPRESENTATIVES	5), to insert here i	n parentheses (filed			
	on <u>April 2, 20</u>	<u>14</u> and	given Application			
	No. <u>14/243</u>	,340 by	the following			
	Office United Stat	es Patent & Trademark Office	) this APPLICATION's			
	Application No., f	iling date, and Office, whe	n known;			
	was filed on	and w	as given Application			
	No	by the	following Office			
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successors a entire and e (and all oth applications,	ind assigns ("ASSIG xclusive rights, tit ner applications	GNEE"), is entitled to, and le and interest in the INV and patents derived the United States, its territori	n, on behalf of itself and its is desirous of acquiring, the ENTION and the APPLICATION erefrom, such as continuing ies, and all foreign countries			
ASSIG	NOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL			
REPRESENTA:	TIVES to insert t	he Application No., filin	g date, and Office into the			
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Page 1 of 2

6224561 v1

MS Docket No. 340972.01 (OC Docket No. MFCP.201757

# PATENT ASSIGNMENT

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

SNN kedder Inventor's Signature	04/ <u>0</u> 1/2014 Date
VENKAT SANKEPALLY	
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>SUBHOIIT SOM</u> ("ASSI	GNOR") am the original	inventor or an original join
inventor of subject matter ("IN patent application entitled "REI	•	·
	ASSIGNOR hereby auth	
	representatives, of Shook	
	vd., Kansas City, Misso	•
	customer number 458	
		n parentheses (filed
on <u>April 2, 2</u> No. 14/243	014 and	
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successors and assigns ("ASSI		
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applications, in and for the I ("APPLICATION DERIVATIVES"));		ies, and all foreign countries
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Application No.	Filing Date	Office
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Page 1 of 2

6224553 v1

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Si Isho N Sam	03.27.2014
Inventor's Signature	Date
SUBHOJIT SOM	arises and
Printed Name in English	Printed Name in Native Language (if other than English)

	disclosed and/or claime	or an original joint inventor of doing a nonprovisional patent TION"), which:
ASSIGNEE'S legal 2555 Grand Bl associated with REPRESENTATIVES on April 2, 20 No. 14/243 Office United State	and  3,340 by es Patent & Trademark Office  Thing date, and Office, whe	k, Hardy & Bacon L.L.P., ouri 64108, who are 09 (ASSIGNEE'S LEGAL n parentheses (filed given Application the following ) this APPLICATION's
и	by the ";	<b>▼</b> ** - 13**
successors and assigns ("ASSIGN entire and exclusive rights, tit (and all other applications applications, in and for the U"APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INV and patents derived the	ENTION and the APPLICATION erefrom, such as continuing
ASSIGNOR hereby REPRESENTATIVES to insert t following table for any APPLICA		g date, and Office into the
Application No.	Filing Date	Office

Page 1 of 2

6224542 v1

PATENT REEL: 036858 FRAME: 0430

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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Tian Ze	3/27/2014
Inventor's Signature	Date
Ze Tian	田沙峯
Printed Name in English	Printed Name in Native Language (if other than English)

**RECORDED: 10/22/2015**