503605202 12/10/2015

# PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT3651832

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:

CORRECTIVE ASSIGNMENT

Corrective Assignment to correct the ASSIGNOR NAME: LARRY ZHU. previously recorded on Reel 035659 Frame 0920. Assignor(s) hereby confirms the SHOULD BE LIQIANG ZHU WHICH IS HIS LEGAL NAME...

RESUBMIT DOCUMENT ID: 503592598

# **CONVEYING PARTY DATA**

Name	Execution Date
LIQIANG ZHU	12/01/2015
ANAND MENON	04/24/2015
RAJALAKSHMI DANI	04/25/2015
GUANGHUI HE	05/08/2015
JIAHUI WANG	05/12/2015
NEIL SHIPP	05/11/2015
NICK VOICU	05/11/2015
YI ZENG	05/09/2015
YU HUANG	05/12/2015
DAVID HETHERINGTON	05/12/2015
ZHAOAN LIU	05/13/2015
GAVIN ACKROYD	05/07/2015

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14714786

#### **CORRESPONDENCE DATA**

**Fax Number:** (952)373-8920

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:** 952-467-6088

Email: sgreenfield@khcip.com

503605202 PATENT REEL: 037259 FRAME: 0325

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 2:PATENT GROUP DOCKETING DEPTAddress Line 4:REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	356010.02
NAME OF SUBMITTER:	DAWN C. RUD
SIGNATURE:	/Dawn C. Rud/
DATE SIGNED:	12/10/2015

# **Total Attachments: 27**

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> PATENT REEL: 037259 FRAME: 0326

# 503311076

05/18/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3357694

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
RAJALAKSHMI DANI	04/25/2015
ANAND MENON	04/24/2015
GUANGHUI HE	05/08/2015
JIAHUI WANG	05/12/2015
NEIL SHIPP	05/11/2015
NICK VOICU	05/11/2015
YI ZENG	05/09/2015
YU (KYLE) HUANG	05/12/2015
LARRY ZHU	05/12/2015
DAVID HETHERINGTON	05/12/2015
ZHAOAN LIU	05/13/2015
GAVIN ACKROYD	05/07/2015

#### **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

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•	Property Type		Number
1			
ı	A mark mark and all the second	44744700	
	Application Number:	14714786	

#### CORRESPONDENCE DATA

Fax Number:

(952)373-8920

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:

sgreenfield@khcip.com

Correspondent Name:

ASSAL MEFTAHI

Address Line 1:

ONE MICROSOFT WAY

Address Line 4:

REDMOND, WASHINGTON 98052

PATENT REEL: 037259 FRAME: 0327

MS Docket No.: 356010.02

I Liqiang Zhu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

V	will be	filed. /	ASSIGNOR	hereby	author	izes, and	requ	ests,
ASSIGN	EE'S leg	gal repre	esentative	, Micro	soft Ted	hnology	Licen	sing,
LLC., O	ne Micro	osoft Wa	y, Redmo	nd, Was	hington	98052 (4	ASSIGN	VEE'S
LEGAL	REPRES	ENTATI\	/ES), to i	nsert l	nere in	parenthe	eses (	(filed
on			and given	Applica	ation No			by
the follo	owing C	ffice <u>US</u>	– United S	itates Pa	atent and	d Tradem	ark O	ffice)
this AP	PLICATI	ON's Ap	plication	No., fil	ing date	, and Of	fice, v	vhen
known;								
KITOVVII,								

was filed on May 18, 2015 and was given Application No

14/714786 by the following Office "US – United States Patent and
Trademark 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

IENI	MSI	Jocket No.:	: <u>35601</u>	0.02
			***************************************	
				1

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"));

Signer your	12-1-2015		
Inventor's Signature	Date		
Ligiang Zhu	Ligiang 2hy		
Printed Name in English	Printed Name in Native Language (if other than English)		

MS Docket No.: <u>356010.02</u>

I Rajalakshmi Dani ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	oxtimes will be filed. ASSIGNOR hereby author	orizes,	and red	quests.
	ASSIGNEE'S legal representative, Microsoft	Techno	ology Lice	nsing,
	LLC., One Microsoft Way, Redmond, Washing	ton 980	)52 (ASSI	GNEE'S
	LEGAL REPRESENTATIVES), to insert here	in par	entheses	(filed
	on and given Application	No		by
	the following Office <u>US - United States Patent</u>	and Tra	ademark (	Office)
	this APPLICATION's Application No., filing of known;	date, an	d Office,	when
	was filed on and was given A	pplicati	ion	
	No by the following Office			
	51 99 .		,	

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
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en materia menuta iran nagan nganggap akincaky pagisari kang gantara kanananan canan ibagga gantara nasan ngga na mananggaban		
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Page 1 of 2

PATENT

REEL: 037259 FRAME: 0330

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).

4/25/2015

Rajalakshmi Dani

Printed Name in English

Printed Name in Native Language

(if other than English)

REEL: 037259 FRAME: 0331

MS Docket No.: 356010.02

I Anand Menon ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	will	be	filed.	ASSIGNOR	hereby	autho	orizes,	and	req	uests,
	ASSI	GNEE	E'S lega	l representat	ive, Micr	osoft	Techn	ology	Lice	nsing,
	LLC.,	, One	Micros	oft Way, Redi	nond, Wa	ashing	ton 98	052 (A	ASSIC	NEE'S
	LEGA	AL R	EPRESEN	NTATIVES), te	o insert	here	in pa	renthe	eses	(filed
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	the f	ollov	ving Off	ice <u>US – Unite</u>	d States	<u>Patent</u>	and Ti	radem	ark (	Office)
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	know	/n;								
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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			

MS Docket No.: 356010.02

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"));

Shandhing	04/24/15
Inventor's Signature	Date
Anand Menon	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 356010.02

I Guanghui He ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	will be filed. ASSIGNOR hereby authorizes, and re	quests
	ASSIGNEE'S legal representative, Microsoft Technology Lic	ensing,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSI	GNEE'S
	LEGAL REPRESENTATIVES), to insert here in parentheses	(filed
	on and given Application No	by
	the following Office US - United States Patent and Trademark	Office)
	this APPLICATION's Application No., filing date, and Office	, when
	known;	
Ш	was filed on and was given Application	
	No by the following Office	
	11 p	

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
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MS Docket No.: 356010.02

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"));

noon	65/08/2015
Inventor's Signature	Date
Guanghui He	一 何光辉
Printed Name in English	Printed Name in Native Language

I Jiahui Wang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which: oxtimes 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 US - United States Patent and Trademark 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; Office Application No. Filing Date

Page 1 of 2

MS Docket No.: 356010.02

MS Docket No.: 356010.02

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"));

Jiahui Wang	5/12/2015
Inventor's Signature	Date
Jiahui Wang	王嘉惠
Printed Name in English	Printed Name in Native Language (if other than English)

I Neil Shipp ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

will	be	filed.	ASSIGNOR	hereby	autho	rizes,	and	requ	iests,
ASSIG	NEE	'S legal	representat	ive, Micr	osoft 1	Techno	logy	Licen	ısing,
LLC.,	One	Microso	oft Way, Redi	nond, Wa	ashingt	on 980	)52 (A	SSIG	NEE'S
LEGAL	R	EPRESEN	TATIVES), to	o insert	here	in par	enthe	ses	(filed
on		······································	and giv	ven Appli	cation	No			by
the fo	llow	ing Offic	ce <u>US – Unite</u>	d States	<u>Patent</u>	and Tr	<u>adema</u>	irk O	ffice)
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No		-	by the fo	ollowing	Office				
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	ASSIC LLC., LEGAL on the fo this A known	ASSIGNEE LLC., One LEGAL RI on the follow this APPL known; was filed No	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESEN on the following Office this APPLICATION known; was filed on No	ASSIGNEE'S legal representat  LLC., One Microsoft Way, Redr  LEGAL REPRESENTATIVES), to on and give the following Office US - Unite this APPLICATION'S Application known;  was filed on and No by the form	ASSIGNEE'S legal representative, MicroLLC., One Microsoft Way, Redmond, Wallegal REPRESENTATIVES), to insert on and given Applithe following Office US - United States this APPLICATION's Application No., for known;  was filed on and was go by the following	ASSIGNEE'S legal representative, Microsoft LLC., One Microsoft Way, Redmond, Washingt LEGAL REPRESENTATIVES), to insert here on and given Application the following Office US - United States Patent this APPLICATION's Application No., filing d known;  was filed on and was given A No by the following Office	ASSIGNEE'S legal representative, Microsoft Technol LLC., One Microsoft Way, Redmond, Washington 980 LEGAL REPRESENTATIVES), to insert here in part on and given Application No the following Office US - United States Patent and Trathis APPLICATION's Application No., filing date, and known;  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 US - United States Patent and Trademathis APPLICATION's Application No., filing date, and Off known;  was filed on and was given Application No by the following Office	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		
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Page 1 of 2

MS Docket No.: 356010.02

MS Docket No.: <u>356010.02</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"));

Mat r	2017/05/11
Inventor's Signature	Date
Neil Shipp	
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: <u>356010.02</u>

I Nick Voicu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	will	be	filed.	ASSIGNOR	hereby	author	izes,	and	requ	ests,
	ASSI	GNE	'S legal	representat	ive, Micr	osoft T	echno	logy	Licen	sing,
	LLC.	, One	Micros	oft Way, Redi	nond, Wa	ashingto	on 980	)52 (A	SSIGN	NEE'S
	LEGA	AL R	EPRESEN	NTATIVES), to	o insert	here i	n par	enthe	ses (	(filed
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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"));

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Application No.	Filing Date	Office

MS Docket No.: <u>356010.02</u>

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Journe	05/11/2015
Inventor's Signature	Date
Nick Voicu	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 356010.02

I Yi Zeng ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	will t	эe	filed.	ASSIGNOR	hereby	auth	orizes,	and	requ	iests
	ASSIG	NE	'S lega	l representat	ive, Micr	rosoft	Techno	ology	Licen	sing
	LLC., (	One	Micros	oft Way, Red	mond, Wa	ashing	ton 98	052 (A	SSIG	NEE'S
	LEGAL	R	EPRESEN	NTATIVES), t	o insert	here	in pa	renthe	ses	(filed
	on			and given	ven Appli	cation	No		· · · · · · · · · · · · · · · · · · ·	by
	the fol	llov	ving Off	ice <u>US – Unite</u>	ed States	Patent	and Tr	adem	ark O	ffice)
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	was fil	ed	on		and was g	jiven A	Applicat	ion		
	No			by the f	ollowing	Office				
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Application No.	Filing Date	Office
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MS Docket No.: 356010.02

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<u>Zanji</u>	5/9/2015
Inventor's Signature	Date
Yi Zeng	一
Printed Name in English	Printed Name in Native Language (If other than English)

MS Docket No.: 356010.02

I Yu Huang (KYLE) ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

will	be	filed.	ASSIGNOR	hereby	author	izes,	and	req	uests,
ASSI	GNEE	'S lega	representat	ive, Micr	osoft T	echno	logy	Licer	nsing,
LLC.	, One	Micros	oft Way, Redr	nond, Wa	ashingto	n 980	)52 (A	SSIG	NEE'S
LEGA	AL R	EPRESEN	ITATIVES), to	insert	here i	n par	enthe	ses	(filed
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	ASSI LLC. LEGA on _ the f this know	ASSIGNEE LLC., One LEGAL R on the follow this APPL known; was filed No	ASSIGNEE'S legal LLC., One Micros LEGAL REPRESEN on the following Offithis APPLICATION known; was filed on No	ASSIGNEE'S legal representat LLC., One Microsoft Way, Redr LEGAL REPRESENTATIVES), to on and give the following Office US - Unite this APPLICATION's Application known;  was filed on a No by the form	ASSIGNEE'S legal representative, MicroLLC., One Microsoft Way, Redmond, Wallegal REPRESENTATIVES), to insert on and given Applithe following Office US - United States this APPLICATION's Application No., f known;  was filed on and was good by the following of the fol	ASSIGNEE'S legal representative, Microsoft To LLC., One Microsoft Way, Redmond, Washington LEGAL REPRESENTATIVES), to insert here in on and given Application Not the following Office US - United States Patent at this APPLICATION's Application No., filing daknown;  was filed on and was given Application No by the following Office	ASSIGNEE'S legal representative, Microsoft Technol LLC., One Microsoft Way, Redmond, Washington 980 LEGAL REPRESENTATIVES), to insert here in part on and given Application No the following Office US - United States Patent and Trathis APPLICATION's Application No., filing date, and known;  was filed on and was given Applicat 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 US - United States Patent and Trademathis APPLICATION's Application No., filing date, and Off known;  was filed on and was given Application No by the following Office	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			

PATENT ASSIGNMENT	MS	Docket No.:	<u>356010.02</u>
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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"));

	·
Yn Huguf	05/12/2015
Inventor's Signature	Date
Yu Huang (KYLE)	· ,
Printed Name in English	Printed Name in Native Language
	(if other than English)

I David Hetherington ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("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 US - United States Patent and Trademark 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; Office Application No. Filing Date

Page 1 of 2

MS Docket No.: 356010.02

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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"));

DSULLA	12 MAY 2015
Inventor's Signature	Date
David Hetherington	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 356010.02

I Zhaoan Liu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("APPLICATION"), which:

$\boxtimes$	will b	oe	filed.	ASSIGNOR	hereby	authori	zes,	and	requ	ests,
	ASSIG	NEE	'S legal	representat	ive, Micr	osoft Te	echno	logy I	_icen	sing,
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	LEGAL	. RE	PRESENT	TATIVES), to	o insert	here ir	n par	enthe	ses (	filed
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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")):

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MS Docket No.: <u>356010.02</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"));

	3.00
MAN	5/13/2015
Ínventor's Signature	Date
Zhaoan Liu	刘肇安
Printed Name in English	Printed Name in Native Language (if other than English)

I Gavin Ackroyd ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY AND PERMISSION ARCHITECTURE" ("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 US - United States Patent and Trademark 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; Office Application No. Filing Date

Page 1 of 2

MS Docket No.: 356010.02

MS Docket No.: 356010.02

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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).

Inventor's Signature

Date

Gavin Ackroyd

Printed Name in English

Printed Name in Native Language

(if other than English)