503372861 06/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3419483

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAODONG HE	06/24/2015
JIANSHU CHEN	06/23/2015
BRENDAN W.L. CLEMENT	06/22/2015
LI DENG	06/27/2015
JIANFENG GAO	06/23/2015
BOCHEN JIN	06/24/2015
PRABHDEEP SINGH	06/25/2015
SANDEEP P. SOLANKI	06/24/2015
LUMING WANG	06/24/2015
HANJUN XIAN	06/24/2015
YILEI ZHANG	06/24/2015
MINGYANG ZHAO	06/23/2015
ZIJIAN ZHENG	06/23/2015

RECEIVING PARTY DATA

Name:	Microsoft Technology Licensing, LLC	
Street Address:	One Microsoft Way	
City:	Redmond	
State/Country:	WA	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14754474

CORRESPONDENCE DATA

503372861

Fax Number: (509)944-4692

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: 509-324-9256

Email: alexisc@leehayes.com
Correspondent Name: LEE & HAYES, PLLC

Address Line 1: 601 W. RIVERSIDE AVE, SUITE 1400

REEL: 036035 FRAME: 0936

PATENT

Address Line 4: SP0	OKANE, WASHINGTON 99201
ATTORNEY DOCKET NUMBER:	MS1-6238US
NAME OF SUBMITTER:	ALEXIS COLLINS
SIGNATURE:	/Alexis Collins/
DATE SIGNED:	06/30/2015
Total Attachments: 26	
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> PATENT REEL: 036035 FRAME: 0937

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

Attorney Docket No.: MS1- 6238US

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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"));

Nife	6/24/2015
Inventor's Signature	Date
Xiaodong He	_何晓冬
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT AS	SSIGNMENT	MS Dock	et No.:	357536.01
		Attorney Dock	et No.:	MS1- 6238US
or an origina	I joint inventor of s lication entitled	ubject matter ("INVENTION" DPERATION OF COMPUTATION) disclo	sed and/or claimed ir
("APPLICATIO	DN"), which:			
	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on June 29, 2015 the following Office	ASSIGNOR hereby authorepresentative, Microsoft if Way, Redmond, Washingt if ATIVES), to insert here and given Application if US — United States Patent is Application of Application if it is a possible with the content of the content is application of the content is applicatio	Fechnol on 980 in pare No. <u>14/</u> and Tra	ogy Licensing, 52 (ASSIGNEE'S entheses (filed 754,474 by demark Office)
		and was given A by the following Office ! !ark Office:		
behalf of itse of acquiring, priority, in th derived there United States ASSIGI	If and its successor, the entire and exite invention and the invention and the invention and the invention is the invention and the invention is and the invention in the invention in the invention is and the invention in the in	ensing, LLC, a Washington s and assigns ("ASSIGNEE"), clusive rights, title and int he APPLICATION (and all ot timing applications, in who all foreign countries ("APP	is entiti erest, i her app ole or ii LICATIC	ed to, and is desirous neluding the right of ilications and patents part, in and for the INDERIVATIVES (1); AL REPRESENTATIVES
	Application No., f DERIVATIVES after	iling date, and Office into	the fol	lowing table for any
	No.		Office	
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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"));

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

Jianshu Chen

Printed Name in English

06/23/2015

Date

Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT	MS Dock	et No.:	357536.01
	Attorney Dock	et No.:	MS1- 6238US
or an original joint inventor of a patent application entitled	Clement ("ASSIGN subject matter ("INVENTION" OPERATION OF COMPUTATION	) disclos	sed and/or claimed ir
("APPLICATION"), which:			
ASSIGNEE'S legal LLC., One Microso LEGAL REPRESEN on June 29, 2015 the following Offi	ASSIGNOR hereby autho representative, Microsoft of Way, Redmond, Washingto (TATIVES), to insert here and given Application to US - United States Patent of Washing does not be selected.	Technolo on 9805 in pare No. <u>14/7</u> and Trac	ogy Licensing, 52 (ASSIGNEE'S ntheses (filed 54,474 by demark Office)
	and was given A by the following Office ! mark Office;		
Microsoft Technology Li behalf of itself and its successo of acquiring, the entire and e priority, in the INVENTION and derived therefrom, such as co United States, its territories, an	xclusive rights, title and int the APPLICATION (and all ot ntinuing applications, in wh	is entitle erest, ir her app ole or in	ed to, and is desirous ncluding the right of lications and patents n part, in and for the
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Attorney Docket No.: MS1-6238US

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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"));

Blum 7	2015-06-22
Inventor's Signature	Date
Brendan W.L. Clement	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket No.: 357536.01
	Attomey Docket No.: MS1- 6238US
or an original joint inventor of subject r a patent application entitled	("ASSIGNOR") am the original inventor natter ("INVENTION") disclosed and/or claimed in ON OF COMPUTATIONAL MODELS
("APPLICATION"), which;	
ASSIGNEE'S legal represe LLC., One Microsoft Way, LEGAL REPRESENTATIVES on June 29, 2015 and the following Office US – L	IOR hereby authorizes, and requests, intative, Microsoft Technology Licensing, Redmond, Washington 98052 (ASSIGNEE'S), to insert here in parentheses (filed digiven Application No. 14/754,474 by United States Patent and Trademark Office) ication No., filing date, and Office, when
	and was given Application he following Office <u>US – United States</u> fice:
behalf of itself and its successors and a of acquiring, the entire and exclusive priority, in the INVENTION and the APP derived therefrom, such as continuing United States, its territories, and all for ASSIGNOR hereby authorizes, and to insert the Application No., filing definitions of the application of the Application No., filing definitions are successful.	LLC, a Washington limited liability company, on ssigns ("ASSIGNEE"), is entitled to, and is desirous rights, title and interest, including the right of LICATION (and all other applications and patents applications, in whole or in part, in and for the eign countries ("APPLICATION DERIVATIVES")); and requests, ASSIGNEE'S LEGAL REPRESENTATIVES ate, and Office into the following table for any re known;

Application No. Filling Date Office

MS Docket No.: 357536.01
Attorney Docket No.: MS1-6238US

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"));

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6/27/2015
	Inventor's Signature	Date
	Li Deng	TP I
	Printed Name in English	Printed Name in Native Language
Ĺ		(if other than English)

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

Attorney Docket No.: MS1-6238US

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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"));

Tambengara	6/23/2015
Inventor's Signature	Date
Jianfeng Gao	高剑峰
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASS	GIGNMENT	MS Docke	et No.:	357536.01
		Attorney Docke	et No.:	MS1- 6238US
	joint inventor of su cation entitled	"("ASSIGN ibject matter ("INVENTION" PERATION OF COMPUTATION	OR") am) disclo:	i the original inventor sed and/or claimed in
("APPLICATION	i"), which:			
	ASSIGNEE'S legal in LC., One Microsof LEGAL REPRESENT on June 29, 2015 he following Office	ASSIGNOR hereby author epresentative, Microsoft 1 t Way, Redmond, Washingto ATIVES), to insert hereand given Application I e <u>US - United States Patent is</u> s Application No., filing di	Fechnol on 980! in pare No. <u>14/</u> and Tra	ogy Licensing, 52 (ASSIGNEE'S intheses (filed 754,474 by demark Office)
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behalf of itself of acquiring, t priority, in the derived theref	and its successors the entire and exc INVENTION and ti rom, such as cont	ensing, LLC, a Washington and assigns ("ASSIGNEE"), clusive rights, title and into the APPLICATION (and all ot inuing applications, in who all foreign countries ("APP	is entitl erest, i her app ole or ir	ed to, and is desirous ncluding the right of dications and patents n part, in and for the
to insert the /	,	zes, and requests, ASSIGNE ling date, and Office into they are known;		
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Attorney Docket No.: MS1-6238US

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"));

Bochen Jr	06/24/2015
Inventor's Signature	Date
Bochen Jin	<u> </u>
Printed Name in English	Printed Name in Native Language
	(if other than English)

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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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"));

The Whole !	06-25-2015
Inventor's Signature	Date
Prabhdeep Singh	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT		MS	Docket No.:	357536.01
		Attorney	Docket No.:	MS1- 6238US
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		PERATION OF COMPU	TATIONAL MOI	DELS
("APPLICATIO	ON"), which:		UKKKKKKUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	
	ASSIGNEE'S legal to LLC., One Microsoft LEGAL REPRESENT on June 29, 2015 the following Office	ASSIGNOR hereby representative, Micro tway, Redmond, Wa ATIVES), to insert and given Applice US – United States For Application No., fi	osoft Techno shington 980 here in par tation No. 14/ Patent and Tra	logy Licensing, 52 (ASSIGNEE'S entheses (filed /754,474 by ademark Office)
		and was g by the following (ark Office;		
behalf of itse of acquiring, priority, in the derived there	elf and its successor, the entire and ex he INVENTION and t efrom, such as con	s and assigns ("ASSIG clusive rights, title a he APPLICATION (and	NEE"), is entit and interest, d all other ap in whole or i	I liability company, on ded to, and is desirous including the right of plications and patents in part, in and for the ON DERIVATIVES"));
to insert the	•	iling date, and Offic	·	GAL REPRESENTATIVES ollowing table for any
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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"));

J.	24 th June 2015
Inventor's Signature	Date
Sandeep P. Solanki	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT			MS Dock	et No.:	357536.01
			Attorney Dock	et No.:	MS1- 6238US
or an origina	d joint Inventor of s dication entitled	ubject matt		") disclo	n the original inventor sed and/or claimed in DELS
("APPLICATIO	DN"), which:			•••••••••••••••••••••••••••••••••••••••	
	will be filed. ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on June 29, 2015 the following Offic this APPLICATION known;	representat ft Way, Redr TATIVES), to and giv :e <u>US – Unite</u>	ive, Microsoft nond, Washing o insert here en Application d States Patent	Technol ton 980 in pare No. <u>14/</u> and Tra	ogy Licensing, 52 (ASSIGNEE'S entheses (filed 754,474 by demark Office)
	was filed on No Patent and Traden	by the fo			
behalf of itse of acquiring, priority, in th derived there	olf and its successor , the entire and ex ne INVENTION and t	s and assigr clusive righ the APPLICA tinuing app	is ("ASSIGNEE"), ts, title and in TION (and all o lications, in wh	is entit terest, i ther appole	liability company, on led to, and is desirous ncluding the right of plications and patents n part, in and for the DN DERIVATIVES"));
to insert the	*	filing date,	and Office into		AL REPRESENTATIVES llowing table for any
Application		Filing Date		Office	

Attorney Docket No.: MS1-6238US

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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"));

/mxhorf	06/24/2015
Inventor's Signature	Date
LuMing Wang	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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	

Attorney Docket No.: MS1- 6238US

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Hayun Khan	06/24/2015
Inventor's Signature	Date
Hanjun Xian	冼 汉君
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT		MS Dock	et No.:	357536.01
		Attomey Dock	et No.:	MS1- 6238US
or an original join a patent applicati	Yilei Zhang t inventor of subject m on entitled TRAINING AND OPERATIO	atter ("INVENTION"	') disclo	sed and/or claimed in
("APPLICATION"),	which:			
ASSI LLC. LEG/ on <u></u> the f	be filed. ASSIGNC GNEE'S legal represen , One Microsoft Way, Re AL REPRESENTATIVES), lune 29, 2015 and following Office <u>US - Ur</u> APPLICATION'S Applications	tative, Microsoft [*] edmond, Washingt to insert here given Application ited States Patent	Fechnol on 980 in pare No. <u>14/</u> and Tra	ogy Licensing, 52 (ASSIGNEE'S entheses (filed 754,474 by demark Office)
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behalf of itself and of acquiring, the priority, in the IN\ derived therefrom United States, its to ASSIGNOR I	echnology Licensing, Lits successors and assentire and exclusive rifention and the APPLIFENTION and the APPLIFENTION as continuing a territories, and all foreinereby authorizes, and	igns ("ASSIGNEE"), ghts, title and int ZATION (and all ot pplications, in who gn countries ("APP requests, ASSIGNE	is entiti erest, i her app ole or i LICATIC	ed to, and is desirous neluding the right of plications and patents neart, in and for the DN DERIVATIVES")); AL REPRESENTATIVES
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Attorney Docket No.: MS1-6238US

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C3/2-	78 5 - 06 - VP
Inventor's Signature	Date
Yilei Zhang	3长 并 <i>其</i> 。
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT AS	SSIGNMENT		MS Docket No.	: 357536,01
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**				um the original inventor losed and/or claimed in
m la manife minin		PERATION OF CC	MPUTATIONAL M	ODELS
("APPLICATIO	on"), which:			
	will be filed. ASSIGNEE'S legal: LLC., One Microsof LEGAL REPRESENT on June 29, 2015 the following Office this APPLICATION' known;	representative, I it Way, Redmond 'ATIVES), to ins and given A e <u>US – United Sta</u>	Microsoft Techn , Washington 98 ert here in pa pplication No. 1 tes Patent and T	ology Licensing, 052 (ASSIGNEE'S trentheses (filed 4/754,474 by rademark Office)
	was filed on No Patent and Tradem	by the follow	ing Office <u>US – L</u>	
behalf of itse of acquiring priority, in the derived ther	elf and its successor , the entire and ex- ne INVENTION and t efrom, such as conf	s and assigns ("A clusive rights, ti he APPLICATION tinuing applicati	SSIGNEE"), is ent tle and interest (and all other a ons, in whole or	ed liability company, on itled to, and is desirous, including the right of pplications and patents in part, in and for the TON DERIVATIVES"));
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Application		Filing Date	Offic	6

Attorney Docket No.: MS1-6238US

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6/23/2015		
Date		
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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
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Attorney Docket No.: MS1-6238US

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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"));

9/Mr.	6/23/2015
Inventor's Signature	Date
Zijian Zheng	KB 子坚
Printed Name in English	Printed Name in Native Language
	(if other than English)