PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4935244

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIQIANG ZHU	04/27/2018
JIAHUI WANG	04/25/2018
JINGJING ZHONG	04/27/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15963596

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: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

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

ATTORNEY DOCKET NUMBER:	403430-US-NP
NAME OF SUBMITTER:	SUSAN GREENFIELD
SIGNATURE:	/Susan Greenfield/
DATE SIGNED:	04/27/2018

Total Attachments: 6

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PATENT 504888503 REEL: 045651 FRAME: 0544

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PATENT REEL: 045651 FRAME: 0545

		PATENT	ASSIGNMENT	MS I	Docket No.:	403430-US-NP
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		ollowing	and v Office " <u>US – Unite</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;						
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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	4[27/28[8- Date
<u>Ligiang ZHU</u>	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATE	NT ASSIGNMENT	MS I	Docket No.:	403430-US-NP
I Jiah	ui WANG ("ASSI	GNOR") am the origir	ial invent	or or an ori	ginal joint inventor
		ON") disclosed and/o			
		AUTHENTICATION			
("APPLICATION					
	ASSIGNEE'S le LLC., One Mic LEGAL REPRE on the following	d. ASSIGNOR here egal representative, Notes of the Properties of t	dicrosoft, Washing ert here oplication tes Paten	Technology gton 98052 in parenti 1 No. t and Trader	y Licensing, (ASSIGNEE'S heses (filed by mark Office)
		and w ng Office " <u>US – United</u>			
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MS Docket No.: 403430-US-NP

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Inventor's Signature

Jiahui WANG

Printed Name in English

4/25/2018

Date

Printed Name in Native Language

(if other than English)

	PATENT A	ASSIGNMENT MS	Docket No.: 403430-US-NP		
inventor of application	subject matter ("INVENTION") disclosed RIZATION AND AUTHE	inventor or an original join and/or claimed in a paten NTICATION FOR RECURRING		
	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on the following Office	ASSIGNOR hereby authorepresentative, Microsofft Way, Redmond, Washin (TATIVES), to insert here and given Application US – United States Pater's Application No., filing	t Technology Licensing, gton 98052 (ASSIGNEE'S e in parentheses (filed n Noby nt and Trademark Office)		
		and was giver ffice "US – United States I			
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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Jaying way	4127/7018
Inventor's Signature	Date
Jingjing ZHONG	海·春·春
Printed Name in English	Printed Name in Native Language
	(if other than English)