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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BIN LI	06/23/2017
JIZHENG XU	06/30/2017

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16292019

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ATTORNEY DOCKET NUMBER:	3382-101919-03
NAME OF SUBMITTER:	KYLE B. RINEHART
SIGNATURE:	/Kyle B. Rinehart/
DATE SIGNED:	05/02/2019

Total Attachments: 4

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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, 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).

Br Li	June 23, 2017
Inventor's Signature	Date. /
Bin Li	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket No).: <u>334989/334989-US-CNT</u>
	Attomey Docket No	MS1- 5268USC1
Jizheng)	© ("Assignor")	am the original inventor
	ubject matter ("INVENTION") disa	dosed and/or daimed in
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("APPEICATION"), which:		
ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on the following Office	ASSICNOR hereby authorizes representative, Microsoft Techs ft Way, Redmond, Washington 9. [ATIVES], to insert here in page and given Application No. [18]. [20]. [nology Licensing, 8052 (ASSIGNEE'S arentheses (filed by frademark Office)
	and was given Applic by the following Office <u>US _</u> nark Office;	
behalf of itself and its successor of acquiring, the entire and ex priority, in the INVENTION and derived therefrom, such as con	ensing, LLC, a Washington fimits and assigns ("ASSIGNEE"), is enciusive rights, title and interestine APPLICATION (and all other attnuing applications, in whole of all foreign countries ("APPLICA	stitled to, and is desirous i, including the right of applications and patents or in part, in and for the
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PATENT ASSIGNMENT	MS Docket No.: 334989/334989-US-CM	
	Attorney Docket No.: MS1-5268USC1	

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).

June 30, 2017
Jinventor's Signature Date

Jizheng Xu イガイで
Printed Name in English Printed Name in Native Language
(if other than English)