505677426 09/18/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5724234

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAJESH GUNNALAN	09/16/2019
HUAZHOU LIU	09/16/2019
JIANNAN ZHENG	09/16/2019
TIN QIAN	09/16/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16570609

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ATTORNEY DOCKET NUMBER:	407336-US-NP/1777.D79US1
NAME OF SUBMITTER:	TYLYN MOORE
SIGNATURE:	/tylyn moore/
DATE SIGNED:	09/18/2019

Total Attachments: 9

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Atty Ref/Docket No.: 407336-US-NP (1777.D79US1)

Patent and Trademark Office

	Total number of pages including cover sheet: 9
Scott C. Krueger/Reg. No. 72,633 Name of Person Signing	/Scott C. Krueger/ September 17, 2019 Signature Date
9. Statement and signature. To the best of my knowledge and belief, the foregoing in of the original document.	nformation is true and correct and any attached copy is a true copy
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Name: Scott C. Krueger	[[Enclosed
5. Name and address of party to whom correspondence concerning document should be mailed:	
Additional numbers attached? []Yes [X]No	6. Total number of applications and patents involved: 1
Serial No. 16/570,609	
A. Patent Application No.(s)	B. Patent No.(s)
If this document is being filed together with a new application of the state of the	••
4. Application number(s) or patent number(s):	
Execution Date: September 16, 2019, September 16, 2019, September 16, 2019, September 16, 2019	
[X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	
3. Nature of conveyance:	redutional name(s) & address(es) attached. [] I es [24].ve
[]Yes [X]No	Additional name(s) & address(es) attached? []Yes [X]No
Additional name(s) of conveying party(ies) attached?	City: <u>Redmond</u> State: <u>WA</u> Zip: <u>98052</u> Country: <u>United States of America</u>
Rajesh Gunnalan, Huazhou Liu, Jiannan Zheng, Tin Qian	Street Address: One Microsoft Way
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> PATENT REEL: 050410 FRAME: 0626

Application No.

PATENT ASSIGNMEN	T	MS Docket N	o.: 407336-US-NP
I Rajesh Gunnala Inventor of subject m application entitled "Mi which:	atter ("INVENTION")		med in a patent
ASSIGNEE'S LLC, One M LEGAL REP on the follow	i legal representative, Nicrosoft Way, Redmon PRESENTATIVES), to in and given ving Office	reby authorizes, and Microsoft Technology d, Washington 98052 (nsert here in parenth Application No. ling date, and Office, w	Licensing, ASSIGNEE'S leses (filedby) this
	n <u>September 13, 2019</u> 9 by the following Offi	and was given Applicatice "US Patent Office";	tion No
Microsoft Technol behalf of itself and its su- of acquiring, the entire priority, in the INVENTIO derived therefrom, such United States, its territor	ccessors and assigns (and exclusive rights, N and the APPLICATIO as continuing applica	title and interest, inclu N (and all other applica tions, in whole or in pa	to, and is desirous uding the right of ations and patents art, in and for the
ASSIGNOR hereby to insert the Application APPLICATION DERIVATIV	n No., filing date, and		

Filing Date

Office

MS Docket No.: 407336-US-NP

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).

y bl	09/16/2019
Inventor's Signature	Date
Rajesh Gunnalan	
Printed Name in English	Printed Name in Native Language
	(If other than English)

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Application	No.	Filing Date	Office	

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")):

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Inventor's Signature

Date

Huazhou Liu

Printed Name in English

Printed Name in Native Language (if other than English)

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		Consciosed alloyor C LECTION FOR MEDIA		
	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN on the following	ASSIGNOR hereby representative, Miconft Way, Redmond, Worder TATIVES), to inserum and given Apposition Mo., filling	rosoft Technology /ashington 98052 (/ t here in parenth lication No.	Licensing, ASSIGNEE'S eses (filedby) this
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MS Docket No.: 407336-US-NP

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"));

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(กั่งentor's Signature	Date
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Printed Name in English	Printed Name in Native Language
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	ASSIGNEE'S lega	al representative, Mic	rosoft Technology Licens ashington 98052 (ASSIGN	ing,
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ASSIG	NOR hereby auth	orizes, and requests, ,	ASSIGNEE'S LEGAL REPRESI	ENTATIVES
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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"));

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Inventor's Signature

Tin Qian

Printed Name in English

Date

Printed Name in Native Language (if other than English)

Page 2 of 2