PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY MARK MOORE	01/05/2016
TIN QIAN	12/16/2015
RAJESH GUNNALAN	12/23/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16209632

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	358836-US-CNT 1777.672US2	
NAME OF SUBMITTER:	JACQUELINE PENNINGTON	
SIGNATURE:	/ Jacqueline Pennington /	
DATE SIGNED:	05/29/2019	

Total Attachments: 7

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EPAS ID: PAT5545342

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PATENT REEL: 049308 FRAME: 0821

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 358836-US-CNT (1777.672US2) Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Microsoft Technology Licensing, LLC Timothy Mark Moore, Tin Qian, Rajesh Gunnalan Street Address: One Microsoft Wav Additional name(s) of conveying party(ies) attached? City: Redmond State: WA Zip: 98052 []Yes [X]No Country: United States of America 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: January 5, 2016, December 16, 2015. December 23, 2015 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 16/209,632 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$ 0.00 Name: Robert M. Hirning []Enclosed []Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Please charge any additional fees or credit any over Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. May 28, 2019 Robert M. Hirning/Reg. No. 59,215 Name of Person Signing Date Total number of pages including cover sheet: 7 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450

Alexandria, VA 22313-1450

PATENT REEL: 049308 FRAME: 0822

PATENT ASSIGNMENT

	PATENT A	SSIGNMENT	MS Docket No.: <u>358836.01</u>	
inventor of	subject matter ("	INVENTION") disclosed a	al inventor or an original joint and/or claimed in a patent <u>Endpoints</u> " ("APPLICATION"),	
	will be filed.	ASSIGNOR hereby autho	orizes, and requests,	
		epresentative, Microsoft		
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S			
		ATIVES), to insert here		
		and given Application		
		ē		
	APPLICATION'S Ap	olication No., filing date, a	nd Office, when known;	
\boxtimes	was filed on <u>Nover</u>	<u>nber 18, 2015</u> and was giv	ven Application	
		oy the following Office " <u>US</u>		
of acquiring priority, in t derived ther	, the entire and ex- he INVENTION and t efrom, such as con	clusive rights, title and in he APPLICATION (and all c inuing applications, in wh	, is entitled to, and is desirous iterest, including the right of other applications and patents hole or in part, in and for the PLICATION DERIVATIVES"));	
ASSIC	NOR hereby authori	zes, and requests, ASSIGN	IEE'S LEGAL REPRESENTATIVES	
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Application	No.	Filing Date	Office	
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Page 1 of 2

PATENT ASSIGNMENT

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).

All the second of the second o	1/5/16
Inventor's Signature	Date
Timothy Mark Moore	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 358836.01_

MS	Docket	No.:	358836.01

subject matt	er ("INVENTION") di		r an original joint inventor of a patent application entitled ON"), which:
	will be filed.	ASSIGNOR hereby autho	prizes, and requests,
	LLC., One Microsof LEGAL REPRESENT on the following O	epresentative, Microsoft t Way, Redmond, Washing ATIVES), to insert hereand given Application ffice plication No., filing date, a	ton 98052 (ASSIGNEE'S in parentheses (filed Noby) this
Ø	was filed on <u>Noven</u>	nber 18, 2015 and was giv	ven Application
	No <u>14/945,280</u> (by the following Office " <u>US</u>	SPTO";
behalf of itse of acquiring priority, in the derived ther	elf and its successors the entire and exi- ne INVENTION and the efrom, such as continuous	s and assigns ("ASSIGNEE") clusive rights, title and ir he APPLICATION (and all c tinuing applications, in wi	i limited liability company, on , is entitled to, and is desirous iterest, including the right of other applications and patents hole or in part, in and for the PLICATION DERIVATIVES"));
ASSIC	NOR hereby authori	zes, and requests, ASSIGN	IEE'S LEGAL REPRESENTATIVES
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MS Docket No.: 358836.01

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Inventor's Signature

Date

Tin Qian

Printed Name in English

Printed Name in Native Language

(if other than English)

PATENT ASSIGNMENT MS Docket No.: 358836.01

inventor of sub	<u>Gunnalan</u> ("ASSIGNOR") am th ject matter ("INVENTION") d led " <u>Media Session between</u>	isclosed and/or claime	d in a patent
ASS LLC LEG on_ the	be filed. ASSIGNOR her IGNEE'S legal representative, ., One Microsoft Way, Redmon AL REPRESENTATIVES), to inand given / following Office LICATION's Application No., fil	Microsoft Technology L d, Washington 98052 (AS sert here in parenthes Application No.	icensing, SSIGNEE'S ies (filedby) this
	filed on <u>November 18, 2015</u> a 14/945,280 by the following		n
behalf of itself an of acquiring, the priority, in the IN derived therefror United States, its ASSIGNOR	Technology Licensing, LLC, a Note of the successors and assigns (", entire and exclusive rights, to the APPLICATION and the APPLICATION and the APPLICATION and the applicate territories, and all foreign couthereby authorizes, and requestication No., filing date, and	ASSIGNEE"), is entitled to, itle and interest, including and interest, including and all other applications, in whole or in partenties ("APPLICATION DE	and is desirous ing the right of one one of the contract of th
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Page 1 of 2

PATENT ASSIGNMENT

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	Inventor's Signature	Date	
	Rajesh Gunnalan		
· response	Printed Name in English	Printed Name in Native Language	
Ĺ		(if other than English)	

MS Docket No.: 358836.01