PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTHONY JAMES PEREZ	05/09/2022
GEORGE KIM	05/09/2022
JOHN RYAN PARK	05/10/2022
CHRISTIAN MICHAEL LANEY	05/09/2022
STEVEN MICHAEL STERNBERG	05/10/2022
EUGENE H. KIM	05/09/2022
PARVEZ ANANDAM	05/09/2022
THOMAS STANISLAW ROGAN IV	05/10/2022

RECEIVING PARTY DATA

Name:	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:	17744142

CORRESPONDENCE DATA

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Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	411460-US-NP
NAME OF SUBMITTER:	CHRISTOPHER HALLSTROM
SIGNATURE:	/Christopher K. Hallstrom, Reg.# 65372/

507283221 PATENT REEL: 059903 FRAME: 0838

DATE SIGNED:	05/13/2022
Total Attachments: 16	
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PATENT REEL: 059903 FRAME: 0839

I Anthony James PEREZ ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PARITY DRIFT DETECTION IN CLOUD COMPUTING SYSTEMS" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed May 13, 2022 on and given Application No. 17/744,142 by the following Office US – United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on and was given Application No ______ by the following Office 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")): hereby authorizes. and requests. ASSIGNEE'S LEGAL ASSIGNOR 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

Page 1 of 2

PAIENL	ASSIGNMEN I	MS Docket No.:	41140U-U3-N
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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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	05/09/2022
Inventor's Signature	Date
Anthony James PEREZ	
Printed Name in English	Printed Name in Native Language
	(if other than English)

of subject matter ("INVENTION entitled "PARITY DRIFT DETECT which: Will be filed. ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT on May 13, No. 17/744,142 Patent and Trader filing date, and Of	N") disclosed and/or clain ION IN CLOUD COMPUTING ASSIGNOR hereby author representative, Microsoft to Way, Redmond, Washing TATIVES), to insert here	orizes, and requests, Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed given Application ce US - United States FION's Application No.,
	by the following Office	
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Microsoft Technology Lice behalf of itself and its successive desirous of acquiring, the entire right of priority, in the INVENTI patents derived therefrom, successive the United States, its the DERIVATIVES"));	ssors and assigns ("ASSIG re and exclusive rights, ti ON and the APPLICATION (h as continuing applicatio	tle and interest, including the (and all other applications and ns, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert to following table for any APPLICA	he Application No., filin	
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PATENT	ASSIGNMENT	MS Docket No.:	411460-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"));

	7 MA12022
Inventor's Signature	Date
George KIM	
Printed Name in English	Printed Name in Native Language
	(if other than English)

l <u>Johr</u>	<u>ı Ryan PARK</u> ("ASS	SIGNOR") am the origina	l inventor or an original joint
inventor of	subject matter ("INVENTION") disclosed	and/or claimed in a patent
application	entitled " <u>PARITY</u>	DRIFT DETECTION IN C	LOUD COMPUTING SYSTEMS"
("APPLICATIO)N"), which:		
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		TATIVES), to insert here	
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REPRESENTA	TIVES to insert ti	he Application No., filin	g date, and Office into the
following tab	ole for any APPLICA	TION DERIVATIVES after t	hey are known;
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Page 1 of 2

PATEN	T ASSIGNMENT	MS Docket No.:	411460-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"));

Ras VIII	05/10/2022
tnverngir's Signature	Date
John Ryan PARK	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 411460-US-NP I Christian Michael LANEY ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PARITY DRIFT DETECTION IN CLOUD COMPUTING SYSTEMS" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed May 13, 2022 and given Application No. 17/744,142 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on _____ and was given Application No ______ by the following Office 37 ₁₁ 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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<i>d.</i> -3	519122
Inventor's Signatura	Date
Christian Michael LANEY	
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Steven Michael STERNBERG</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>PARITY DRIFT DETECTION IN CLOUD COMPUTING SYSTEMS</u>" ("APPLICATION"), which:

\boxtimes	will be filed. ASSIGNOR hereby authorizes, and requests						
	ASSIGNEE'S legal representative, Microsoft Technology Licensing						
	LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE"						
	LEGAL REPRESENTATIVES), to insert here in parentheses (filed						
	on May 13, 2022 and given Application						
	No. 17/744,142 by the following Office US - United State						
	Patent and Trademark Office) this APPLICATION's Application No.,						
	filing date, and Office, when known;						
	was filed on and was given Application						
	No by the following Office						
	55 No. 5						

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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Application No.	Filing Date	Office
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Page 1 of 2

PATENT.	ASSIGNMENT	MS Docket No.:	411460-US-NP

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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 Steven Michael STERNBERG Printed Name in English Printed Name in Native Language (if other than English)

I <u>Eugene H. KIM</u> ("ASSI	GNOR") am the original	inventor or an original joint
inventor of subject matter ("INVENTION") disclosed	and/or claimed in a patent
application entitled "PARITY	DRIFT DETECTION IN C	LOUD COMPUTING SYSTEMS'
("APPLICATION"), which:		
🛛 will be filed.	ASSIGNOR hereby auth	orizes, and requests,
ASSIGNEE'S legal	representative, Microsoft	Technology Licensing,
LLC, One Microso	ft Way, Redmond, Washing	iton 98052 (ASSIGNEE'S
LEGAL REPRESEN	TATIVES), to insert here	in parentheses (filed
on May 13	. 2022 and	given Application
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Microsoft Technology Liebehalf of itself and its succe desirous of acquiring, the entiright of priority, in the INVENTI patents derived therefrom, sucfor the United States, its to DERIVATIVES")); ASSIGNOR hereby REPRESENTATIVES to insert to	ssors and assigns ("ASSIG re and exclusive rights, ti ON and the APPLICATION of h as continuing application territories, and all foreit authorizes, and requ	tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION Jests, ASSIGNEE'S LEGAL
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PATENT	ASSIGNMENT	MS Docket No.:	411460-US-NP

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	5/9/22
Inventor's Signature	Date
Eugene H. KIM	
Printed Name in English	Printed Name in Native Language
 	(if other than English)

inventor of su	bject matter (' itled " <u>PARITY I</u>	"INVENTION") disclosed	l inventor or an original joint and/or claimed in a patent LOUD COMPUTING SYSTEMS"
AS LL LE on No <u>Pa</u>	SIGNEE'S legal C, One Microsof GAL REPRESENT May 13, 17/744,142 tent and Trader	ASSIGNOR hereby authrepresentative, Microsoft Way, Redmond, Washing TATIVES), to insert here 2022 and by the following Offmark Office) this APPLICA fice, when known;	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed given Application ice <u>US – United States</u>
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behalf of itself desirous of acq right of priority, patents derived	and its succesuiring, the entire, in the INVENTION therefrom, such	ssors and assigns ("ASSI re and exclusive rights, t ON and the APPLICATION n as continuing application	n limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION
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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).

Survey .	May 9, 2022	
Inventor's Signature	Date	
Parvez ANANDAM		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

I <u>Thomas Stanislaw RC</u> original joint inventor of subjection entitled " <u>PAI</u> ("APPLICATION"), which:	ect matter ("INVENTION") RITY DRIFT DETECTION IN	
🛛 will be filed.	ASSIGNOR hereby auth	orizes, and requests,
ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN on May 13, No. 17/744,142 Patent and Trade	representative, Microsoft ft Way, Redmond, Washing TATIVES), to insert here	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed given Application ice <u>US – United States</u>
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1 1 11	gen for to	
Inventor's Signature		
Thomas Stanislaw ROGAN IV		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	