505922067 02/18/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5968785

	SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
Assignor(s) hereby confirms the CORRECT SPELLING OF THE 5TH INVENTOR'S NAME IS MALIA.			

CONVEYING PARTY DATA

Name	Execution Date
PETER L. ENGRAV	05/10/2019
AARON ERLANDSON	05/10/2019
STEPHEN WHITE	05/13/2019
TREVOR J. HARRIS	05/10/2019
MALIA M. DOUGLAS	05/10/2019
RACHEL SIRKIN	05/10/2019
SHIKHA DEVESH DESAI	05/10/2019
JIE DONG	05/14/2019
EVAN W. LAVENDER	05/10/2019
CHRISTIAN HARPER-CYR	05/10/2019

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:	16414374

CORRESPONDENCE DATA

Fax Number: (832)375-0202

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: 4257079382

Email: usdocket@microsoft.com, chelsea.levy@iiplg.com

MICROSOFT CORPORATION **Correspondent Name:**

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

REEL: 052040 FRAME: 0969 505922067

PATENT

ATTORNEY DOCKET NUMBER:	406307-US-NP
NAME OF SUBMITTER:	JAMILLA N. HOLOMON
SIGNATURE:	/Jamilla N. Holomon/
DATE SIGNED:	02/18/2020
DATE SIGNED:	02/18/2020

Total Attachments: 22 source=Assignment Confirmation Receipt Edit#page1.tif source=Assignment Confirmation Receipt Edit#page2.tif source=406307-US-NP Assignment#page1.tif source=406307-US-NP Assignment#page2.tif source=406307-US-NP Assignment#page3.tif source=406307-US-NP Assignment#page4.tif source=406307-US-NP Assignment#page5.tif source=406307-US-NP Assignment#page6.tif source=406307-US-NP Assignment#page7.tif source=406307-US-NP Assignment#page8.tif source=406307-US-NP Assignment#page9.tif source=406307-US-NP Assignment#page10.tif source=406307-US-NP Assignment#page11.tif source=406307-US-NP Assignment#page12.tif source=406307-US-NP Assignment#page13.tif source=406307-US-NP Assignment#page14.tif source=406307-US-NP Assignment#page15.tif source=406307-US-NP Assignment#page16.tif source=406307-US-NP Assignment#page17.tif source=406307-US-NP Assignment#page18.tif source=406307-US-NP Assignment#page19.tif

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PATENT REEL: 052040 FRAME: 0970

United States Patent and Trademark Office

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Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

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
PETER L. ENGRAV	05/10/2019
AARON ERLANDSON	05/10/2019
STEPHEN WHITE	05/13/2019
TREVOR J. HARRIS	05/10/2019
MILIA M. DOUGLAS MALIA	05/10/2019
RACHEL SIRKIN	
SHIKHA DEVESH DESAI	05/10/2019
JIE DONG	05/14/2019
EVAN W. LAVENDER	05/10/2019
CHRISTIAN HARPER-CYR	05/10/2019

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

PATENT **
REEL: 052040 FRAME: 0971

Property Type	Number	
Application Number:	16414374	

CORRESPONDENCE DATA

Fax Number: (832)375-0202 **Phone:** 4257079382

Email: usdocket@microsoft.com, chelsea.levy@iiplg.com

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.

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

	ATTORNEY DOCKET NUMBER:	406307-US-NP
mmmmm	NAME OF SUBMITTER:	JAMILLA N. HOLOMON
mmmmm	Signature:	/Jamilla N. Holomon/
annana	Date:	05/16/2019

Total Attachments: 20

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RECEIPT INFORMATION

EPAS ID: PAT5527472 **Receipt Date:** 05/16/2019

Return to home page

| HOME | INDEX | SEARCH | @BUSINESS | CONTACT US | PRIVACY STATEMENT

I <u>Pet</u>	<u>er L. Engrav</u> ("ASSI	GNOR") am the origi	inal inventor or	an original joint
inventor of	subject matter ("i	INVENTION") disclose	ed and/or claim	ed in a patent
application 6	ntitled "Time Syste	ms as Data" ("APPLIC	CATION"), which:	
×	ASSIGNEE'S legal r LLC, One Microsoft LEGAL REPRESENT	ASSIGNOR hereby a epresentative, Micros Way, Redmond, Was ATIVES), to insert h and given Applica	soft Technology hington 98052 (A nere in parenthe	Licensing, SSIGNEE'S ses (filed
	· · · · · · · · · · · · · · · · · · ·	<u>US - United States Pa</u> s Application No., fili		
	was filed on	and was giv	ven Application	
	No	by the following O	ffice	

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"));

Application No.	Filing Date	Office	

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).

| Solution | Signature | Signature | Solution | Signature |

inventor of	subject matter (riginal inventor or an origina osed and/or claimed in a LICATION"), which:	
	ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT on May 16, 2019 the following Office	representative, Mici t Way, Redmond, Wa FATIVES), to insert and given Appli e <u>US - United States</u>	authorizes, and requests, rosoft Technology Licensing, ashington 98052 (ASSIGNEE'S here in parentheses (filed ication No. 16/414,374 by Patent and Trademark Office) filing date, and Office, when	
	No	and was (by the following";		
behalf of itse of acquiring priority, in the derived there	elf and its successor , the entire and ex ne INVENTION and t efrom, such as con	s and assigns ("ASSIG clusive rights, title he APPLICATION (an tinuing applications	ington limited liability compaing the compaing the right and interest, including the right all other applications and part, in and forms ("APPLICATION DERIVATIVES")	sirous ght of atents or the
to insert the	•	illing date, and Offi	ASSIGNEE'S LEGAL REPRESENTA ice into the following table fo	
Application		Filing Date	Office	

1 Ja G. L.	5-10-2019
'Inventor's Signature	Date
Aaron Erlandson Printed Name in English	Printed Name in Native Language
Littings (Agust 11 Friding)	<u> </u>
	(if other than English)

I <u>Stephen White</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Time Systems as Data" ("APPLICATION"), which:

X	will be filed.	ASSIGNOR	hereby	authoriz	es, and i	equests,
	ASSIGNEE'S legal	represental	tive, Mici	osoft Tec	hnology L	icens i ng,
	LLC, One Microso	oft Way, Redi	mond, Wa	ashington	98052 (AS	SIGNEE'S
	LEGAL REPRESEN on May 16, 2019					
	the following Offi this APPLICATION known;					
\Box	was filed on		and was g	given Appl	lication	
	No	by the f	ollowing	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"));

***************************************	Application No.	Filing Date	Office	
ĺ.				

JAn 2/12	5/13/2012
Inventor's Signature	Date
<u>Stephen White</u>	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Trevor I. Harris</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Time Systems as Data" ("APPLICATION"), which:

X	will be file	d. ASSIGNOR	hereby auti	norizes, 🦠	and requ	uests,
	ASSIGNEE'S	legal representat	ive, Microsofi	t Technol	ogy Licer	rsing,
	LLC, One Mid	crosoft Way, Redi	mond, Washin	gton 980!	52 (ASSIG	NEE'S
	LEGAL REPR	ESENTATIVES), t	o insert here	e in pare	ntheses	(filed
	on <u>May 16,</u>	2019 and given	ven Applicatio	n No. <u>16/</u>	414,374	by
	the following	Office <u>US - Unite</u>	<u>ed States Pater</u>	nt and Tra	<u>demark C</u>)ffice)
	this APPLICA	TION's Applicati	on No., filing	date, and	d Office,	when
	known;					
	was filed on	į	and was given	Application	on	
	No		ollowing Offic			
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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"));

Application No.	Filing Date	Office	
		\	

75-5-	5/10/2019
Inventor's Signature	Date
Trevor J. Harris	
Printed Name in English	Printed Name in Native Language
	(if other than English)
	KES JURKENING RELESORE OF STANKE CHARLES

i	Mal	ia M. D	<u>ouglas</u> ('	'ASSIGNOR") am	the origin	ıal invent	or or an	origina	ıl joint
inventor	of	subject	matter	("INVENTION")	disclosed	and/or	claimed	in a	patent
applicati	on e	ntitled "	Time Sy	′stems as Data′	("APPLICA"	TION"), w	hich:		

will be filed.	ASSIGNOR here	by authorize	es, and re	quests
ASSIGNEE'S leg	al representative, !	Microsoft Tec	:hnology Lic	ensing
LLC, One Micro	soft Way, Redmond	, Washington	98052 (ASSI	IGNEE'S
LEGAL REPRESI	ENTATIVES), to ins	ert here in	parenthese:	s (filec
on May 16, 201	9and given A	pplication No.	. 16/414,374	b
the following O	ffice <u>US – United Sta</u>	<u>ites Patent and</u>	<u>d Trademark</u>	Office
this APPLICATION	ON's Application No	o., filing date	e, and Office	e, wher
known;				
was filed on	and w	as given Appi	lication	
No	by the follow	ing Office		
66	n.			

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"));

Application No.	Filing Date	Office

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"));

	05/10/2019
Inventor's Signature	Date
<u>Malia M. Douglas</u>	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Rachel Sirkin</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Time Systems as Data" ("APPLICATION"), which:

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C)n	May	16,	2019)	ê	and	giv	en	Apı	plic	cati	ion	No)	16/4	114,	374		by
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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"));

Application No.	Filing Date	Office	

MS Docket No.: 406307-US-NP

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"));

	Adul DL.	5/10/19
1	Inventor's Signature	Date
	Rachel Sirkin	Jac
	Printed Name in English	Printed Name in Native Language
		(if other than English)
*****		M/////////////////////////////////////

I <u>Shikha Devesh Desai</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "**Time Systems as Data"** ("APPLICATION"), which:

X	will be	filed.	ASSIGNOR	hereby	autho	rizes,	and rec	quests.
	ASSIGNEE	'S legal	represental	tive, Mic	rosoft ⁻	Гесhnol	logy Lice	ensing,
	LLC, One	Microso	ft Way, Redi	nond, W	ashingt	on 980	52 (ASSK	GNEE'S
			ΓΑΤΙVES), t and gi			· · · · · · · · · · · · · · · · · · ·		
			e <u>US Unite</u>					
	this APPL	ICATION	's Applicati	on No.,	filing d	ate, an	d Office,	, when
	known;							
_	was filed	on		and was	given A	pplicati	on	
	No		by the f	ollowing	Office			
				183 Mariana - 3				

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"));

Application No.	Filing Date	Office

3ale	05/10/2019
Inventor's Signature	Date /
Shikha Devesh Desai Printed Name in English	Printed Name in Native Language (if other than English)

I <u>lie Dong</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Time Systems as Data" ("APPLICATION"), which:

XI.	will be filed.	ASSIGNOR	hereby	authoriz	es, and	requests
	ASSIGNEE'S legal	representat	ive, Mici	rosoft Te	chnology I	Licensing
	LLC, One Microso	ft Way, Redr	nond, Wa	ashington	98052 (A	SSIGNEE'S
	LEGAL REPRESEN	TATIVES), t	o insert	here in	parenthe	ses (filed
	on May 16, 2019	and gi	ven Appli	ication No	. 16/414,3	374 by
	the following Offic	:e <u>US Unite</u>	<u>ed States</u>	<u>Patent an</u>	<u>d Tradema</u>	<u>irk Office</u>
	this APPLICATION	's Applicati	on No.,	filing date	e, and Off	ice, when
	known;					
_	was filed on		and was	given App	lication	
	No	by the f	ollowing	Office		
	11		»,			

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Application No.	Filing Date	Office	
		<u> </u>	

7202-	05/14/2019
Inventor's Signature	Date
<u>Jie Dong</u> Printed Name in English	李龙 Printed Name in Native Language
	(if other than English)

	ASSIGNEE'S legal LLC, One Micros LEGAL REPRESE on May 16, 2019 the following Office 1985 (1985) and the following Office 1	ASSIGNOR hereby authorizes, and requests, representative, Microsoft Technology Licensing, oft Way, Redmond, Washington 98052 (ASSIGNEE'S ITATIVES), to insert here in parentheses (filed and given Application No. 16/414,374 by ice US - United States Patent and Trademark Office) N's Application No., filing date, and Office, when
	was filed on	and was given Application
		by the following Office
		n,
		icensing, LLC, a Washington limited liability company, or or and assigns ("ASSIGNEE"), is entitled to, and is desirous
behalf of itse of acquiring, priority, in the derived there	olf and its success the entire and one the INVENTION and efrom, such as co	icensing, LLC, a Washington limited liability company, or ors and assigns ("ASSIGNEE"), is entitled to, and is desirou: xclusive rights, title and interest, including the right o the APPLICATION (and all other applications and patents ntinuing applications, in whole or in part, in and for the nd all foreign countries ("APPLICATION DERIVATIVES"));
behalf of itse of acquiring, priority, in the derived there United States ASSIGN to insert the	If and its success, the entire and one invention and one invention and one invention as constitution, as the invention in the	ors and assigns ("ASSIGNEE"), is entitled to, and is desirous xclusive rights, title and interest, including the right of the APPLICATION (and all other applications and patents ntinuing applications, in whole or in part, in and for the all foreign countries ("APPLICATION DERIVATIVES")); orizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES filing date, and Office into the following table for any
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MS Docket No.: 406307-US-NP

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"));

	5/10/15
Inventor's Signature	Date
Evan W. Lavender	
Printed Name in English	Printed Name in Native Language
	(If other than English)

I <u>Christian Harper~Cyr</u> ("ASSIGNOR") a	m the original inventor or an original joint
inventor of subject matter ("INVENTION")	disclosed and/or claimed in a patent
application entitled "Time Systems as Data"	("APPLICATION"), which:

	XI.	will be filed.	ASSIGNOR	hereby a	uthorizes,	, and rec	uests,	
LEGAL REPRESENTATIVES), to insert here in parentheses (on May 16, 2019 and given Application No. 16/414,374 the following Office US - United States Patent and Trademark Of this APPLICATION's Application No., filing date, and Office, w known; was filed on and was given Application No by the following Office "":		ASSIGNEE'S leg	gal representa	tive, Micros	oft Techr	nology Lice	nsing,	
on May 16, 2019 and given Application No. 16/414,374 the following Office US - United States Patent and Trademark Of this APPLICATION's Application No., filing date, and Office, w known; was filed on and was given Application No by the following Office "":		LLC, One Micro	soft Way, Redi	mond, Wasi	nington 98	3052 (ASSIC	JNEE'S	
the following Office <u>US - United States Patent and Trademark Of</u> this APPLICATION's Application No., filing date, and Office, w known; was filed on and was given Application No by the following Office " ":		LEGAL REPRES	ENTATIVES), t	o insert h	ere in p	arentheses	(filed	
this APPLICATION's Application No., filing date, and Office, w known; was filed on and was given Application No by the following Office "":		on <u>May 16, 20</u>	19and gi	ven Applica	tion No	16/414,374	by	
known; was filed on and was given Application No by the following Office " ":		the following Office <u>US - United States Patent and Trademark Office</u>)						
was filed on and was given Application No by the following Office " ":		this APPLICATION's Application No., filing date, and Office, when						
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n 9,	لل	was filed on		and was giv	en Applic	ation		
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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"));

Application No.	Filing Date	Office
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MS Docket No.: 406307-US-NP

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"));

ÅC	5/10/2018
Inventor's Signature	Date [*]
<u>Christian Harper-Cyr</u> Printed Name in English	Printed Name in Native Language
	(if other than English)