505714177 10/09/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5760987

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOVIN VASANTH KUMAR DEVA SAHAYAM ARUL RAJ	09/25/2019
AVINASH G. PILLAI	09/26/2019
APSARA KAREN SELVANAYAGAM	09/25/2019
JINGHUA CHEN	10/08/2019

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:	16577771

CORRESPONDENCE DATA

Fax Number:

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.

Email: request@slwip.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: P.O. BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	406787-US-NP/1777.D30US1
NAME OF SUBMITTER:	TYLYN MOORE
SIGNATURE:	/tylyn moore/
DATE SIGNED:	10/09/2019

Total Attachments: 9

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PATENT 505714177 REEL: 050662 FRAME: 0989

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PATENT REEL: 050662 FRAME: 0990

Atty Ref/Docket No.: 406787-US-NP (1777.D30US1)

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: P.	lease record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Jovin Vasanth Kumar Deva Sahayam Arul Raj, Avinash	Name: Microsoft Technology Licensing, LLC
G. Pillai, Apsara Karen Selvanayagam, Jinghua Chen	Street Address: One Microsoft Way
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>
[]Yes [X]No	·
3. Nature of conveyance:	Additional name(s) & address(es) attached? []Yes [X]No
[X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	
Execution Date: September 25, 2019, September 26, 2019, September 25, 2019, October 8, 2019	
4. Application number(s) or patent number(s):If this document is being filed together with a new application	on, the execution date of the application is:
0 0	**
A. Patent Application No.(s)	B. Patent No.(s)
Serial No. 16/577,771	
Additional numbers attached? []Yes [X]No	
5. Name and address of party to whom correspondence concerning document should be mailed:	 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):\$ 0.00
Name: Kenneth N. Nigon	[[Enclosed
Address: Schwegman Lundberg & Woessner, P.A.	Authorized to be charged to deposit account 19-0743
P.O. Box 2938 Minneapolis, Minnesota 55402	8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743
DO NOT US	SE THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing infor of the original document.	rmation is true and correct and any attached copy is a true copy
Kenneth N. Nigon/Reg. No. 31,549	October 9, 2019
Name of Person Signing	Signature Date
T	otal number of pages including cover sheet: 9
Mail documents to be recorded with required cover sheet in	formation to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

inventor or a claimed in a	ın original joint inv	entor of subject m n entitled " <u>TIMED</u>	ıl Raj ("ASSIGNOR") am atter ("INVENTION") disc <u>MULTI-THREAD ACCES!</u>	:losed and/or
	ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT on the following O	representative, Mi t Way, Redmond, V 'ATIVES), to inser and given App ffice	authorizes, and recorosoft Technology Lice Vashington 98052 (ASSIC) there in parentheses lication No. date, and Office, when keep	ensing, GNEE'S (filed by) this
		mber 20, 2019 and following Office "	I was given Application I US Patent Office ";	Vo
behalf of itse of acquiring, priority, in the derived there	If and its successor the entire and ex ie INVENTION and t efrom, such as con	s and assigns ("ASS clusive rights, title he APPLICATION (a tinuing application	hington limited liability IGNEE"), is entitled to, are and interest, including and all other applications s, in whole or in part, in ies ("APPLICATION DERIN	nd is desirous the right of s and patents n and for the
to insert the		iling date, and Of	ASSIGNEE'S LEGAL REPR fice into the following	
Application	No.	Filing Date	Office	***************************************

MS Docket No.: 406787-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"));

Jon Vasar Mikuma	09/25)2019
Inventor's Signature	Date
Jovin Vasanth Kumar Deva Sahayam	
Arul Raj	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Application No.

PATENT ASSIGNMENT	MS Docket No.: 406787-US-NP
inventor of subject matter ("INVENTION	m the original inventor or an original joint N") disclosed and/or claimed in a patent AD ACCESS FOR HIGH-THROUGHPUT SLOW-
ASSIGNEE'S legal representa LLC, One Microsoft Way, Red LEGAL REPRESENTATIVES), on and g the following Office	hereby authorizes, and requests, tive, Microsoft Technology Licensing, mond, Washington 98052 (ASSIGNEE'S to insert here in parentheses (filed iven Application No by) this o., filing date, and Office, when known;
oxtimes was filed on September 20, 2 $16/577,771$ by the following	<u>2019</u> and was given Application No Office " <u>US Patent Office</u> ";
behalf of itself and its successors and assign of acquiring, the entire and exclusive rig priority, in the INVENTION and the APPLIC derived therefrom, such as continuing ap	C, a Washington limited liability company, on yns ("ASSIGNEE"), is entitled to, and is desirous hts, title and interest, including the right of ATION (and all other applications and patents plications, in whole or in part, in and for the n countries ("APPLICATION DERIVATIVES"));
	equests, ASSIGNEE'S LEGAL REPRESENTATIVES and Office into the following table for any (nown;

Page 1 of 2

Filing Date

Office

MS Docket No.: 406787-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"));

1 011 6		
No.	09/26/2019	
Inventor's Signature	Date	
Avinash G. Pillai		
Printed Name in English	Printed Name in Native Language (if other than English)	

I Apsara Karen Selvanayagam ("ASSIGNOR") am the original inventor or an origina			
joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent			
application entitled "TIMED MULTI-THREAD ACCESS FOR HIGH-THROUGHPUT SLOW-			
<u>RESPONSE SYSTEMS</u> ", which:			
\square will be filed.	ASSIGNOR hereby autho	orizes, and requests,	
ASSIGNEE'S legal 1	representative, Microsoft	Technology Licensing,	
LLC, One Microsoft	Way, Redmond, Washingt	on 98052 (ASSIGNEE'S	
LEGAL REPRESENT	ATIVES), to insert here	in parentheses (filed	
on	and given Application	Noby	
the following Of	ffice) this	
APPLICATION's App	olication No., filing date, ar	ıd Office, when known;	
oxtimes was filed on Septer	<u>nber 20, 2019</u> and was giv	ven Application No	
	following Office " <u>US Pater</u>		
Microsoft Technology Lice	ensing, LLC, a Washington	limited liability company, on	
behalf of itself and its successors	s and assigns ("ASSIGNEE"),	, is entitled to, and is desirous	
of acquiring, the entire and exc	-		
priority, in the INVENTION and the	- .		
derived therefrom, such as cont		• •	
United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));			
,	, ,	<i>,,,</i>	
ASSIGNOR hereby authori	zes, and requests, ASSIGN	EE'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	

MS Docket No.: 406787-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"));

Apsana Konem S	9/25/19
Inventor's Signature	Date
Apsara Karen Selvanayagam	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	Jinghua Chen ("ASSIGNOR") am the original inventor or an original joint inver	itor
of su	ect matter ("INVENTION") disclosed and/or claimed in a patent application entit	tled
"TIMI	MULTI-THREAD ACCESS FOR HIGH-THROUGHPUT SLOW-RESPONSE SYSTEM	ds",
whic		

will	be	filed	ASS	SIGNOR	her	eby	auth	orize	s, and	l requ	ests,
ASSI	GNE	E'S le	gal repi	resenta	ative,	Micr	osoft	Tec	hnology	/ Licen	sing,
LLC,	One	. Micro	soft W	ay, Rec	lmoni	d, Wa	ashing	iton	98052	(ASSIGN	VEE'S
LEGA	AL F	EPRES	ENTAT	IVES),	to in	isert	here	in	parentl	ieses i	filed
			Offic								
			a Applic								

was filed on <u>September 20, 2019</u> and was given Application No 16/577,771 by the following Office "US <u>Patent Office</u>";

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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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"));

\sim \sim \sim	
Inventoc's Signature	10 / G 20/7 Date
Jinghua Chen	
Printed Name in English	Printed Name in Native Language (if other than English)