506779023 07/21/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6825840

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZHANGWEI XU	07/20/2021
XIAOFENG GAO	07/20/2021
CARY L. MITCHELL	07/19/2021
STEVE J. LUNSMAN	07/19/2021
TONY V. PEREZ	07/19/2021
ARVIND NARASIMHAN	07/21/2021

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:	17382072

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: patentdocket@arentfox.com,brianna.nesmith@arentfox.com

Correspondent Name: ARENT FOX LLP
Address Line 1: 1717 K STREET, NW

Address Line 4: WASHINGTON, D.C. 20006-5344

ATTORNEY DOCKET NUMBER:	037834.01291/410133-US-NP
NAME OF SUBMITTER:	BRIANNA NESMITH
SIGNATURE:	/Brianna Nesmith/
DATE SIGNED:	07/21/2021

Total Attachments: 12

source=410133-US-NP_Executed_Assignment_asfiled_July_21_2021_v2#page1.tif

PATENT REEL: 056939 FRAME: 0446



PATENT REEL: 056939 FRAME: 0447 Zhangwei XU ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

X	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	reque	ests,
	ASSI	GNE	E'S lega	l representat	ive, Micr	osoft Techno	ology	Licens	sing,
	LLC,	One	Micros	oft Way, Redr	nond, Wa	ishington 980)52 (A	SSIGN	IEE'S
	LEGA	AL R	REPRESEN	NTATIVES), to	o insert	here in par	renthe	ses (filed
	on _			and giv	en Appli	cation No			by
	the	foll	owing	Office					this
	APPL	-ICA	ΓΙΟΝ's A	pplication No	o., filing c	late, and Offic	ce, wh	en kno	own;
	was	filed	on and	was given Ap	plication	No_by the f	follow	ing Of	fice
	"". _ '								

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

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"));

Inventor's Signature	Date 7/20/2021
Printed Name in English Zhangwei XU	Printed Name in Native Language (if other than English) 徐章炜

Xiaofeng GAO ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	reque	ests,
	ASSI	GNE	E'S lega	al representat	ive, Micr	osoft Techno	ology L	icens	ing,
	LLC,	One	Micros	oft Way, Redr	nond, Wa	ishington 980	052 (A	SSIGN	EE'S
	LEG/	AL R	EPRESE	NTATIVES), t	o insert	here in pa	renthes	ses (1	filed
	on _			and giv	en Appli	cation No			_ by
	the	foll	owing	Office					this
	APPL	-ICA	ΓΙΟΝ's A	Application No	o., filing c	late, and Offi	ce, whe	n kno	own;
	was	filed	on and	l was given Ap	plication	No_by the	followi	ng Of	fice
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Inventor's Signature	Date 7/20/207/
Printed Name in English	Printed Name in Native Language
Xiaofeng GAO	(if other than English)

Cary L. MITCHELL ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

X	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
	on and given Application No by
	the following Office
	APPLICATION's Application No., filing date, and Office, when known;
	was filed on and was given Application No_by the following Office
	n n, _ 1

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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Page 1 of 2

APDOCS/24217245.1

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Inventor's Signature	Date
Can L. draw	07/19/2021
Printed Name in English Cary L. MITCHELL	Printed Name in Native Language (if other than English)

Steve J. LUNSMAN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	reque	ests,
	ASSI	GNE	E'S lega	al representat	ive, Micr	osoft Techno	ology I	Licens	sing,
	LLC,	One	Micros	oft Way, Redr	nond, Wa	ishington 98	052 (A	SSIGN	IEE'S
	LEGA	AL R	REPRESE	NTATIVES), t	o insert	here in pa	renthe	ses (filed
	on _			and giv	ven Appli	cation No			by
	the	foll	owing	Office					this
	APPL	_ICA	TION's A	Application No	o., filing o	late, and Offi	ce, whe	en kno	own;
	was	filed	on and	l was given Ap	plication	No_by the	followi	ng Of	ffice
	"".								

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Inventor's Signature	Date 7-19-2021
Printed Name in English Steve J. LUNSMAN	Printed Name in Native Language (if other than English)

Tony V. PEREZ ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	t hereby	authorizes	, and	requ	ests,
	ASSI	GNE	E'S lega	ıl representa	ative, Mic	rosoft Techr	nology	Licen	sing,
	LLC,	One	Micros	oft Way, Red	lmond, W	ashington 98	3052 (A	ASSIGN	NEE'S
	LEGA	AL R	EPRESE	NTATIVES),	to insert	here in p	arenthe	eses ((filed
	on_			and g	iven Appl	ication No			by
	the	foll	owing	Office)	this
	APPL	ICA7	ΓΙΟΝ's <i>A</i>	Application N	lo., filing	date, and Off	ice, wh	en kn	own;
	was	filed	on and	was given A	Application	n No _ by the	follow	ing O	ffice
	" ". _ '			_		- •			

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Inventor's Signature	Date
Tony V. Pery	7/19/2021
Printed Name in English	Printed Name in Native Language
Tony V. PEREZ	(if other than English)

Arvind NARASIMHAN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED CROSS-SERVICE DIAGNOSTICS FOR LARGE SCALE INFRASTRUCTURE CLOUD SERVICE PROVIDERS" ("APPLICATION"), which:

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	LEGA	AL R	REPRESE	NTATIVES), t	o insert	here in pa	renthe	ses (filed
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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	Date		
:	Acces 10		1/21/2021	
	Printed Name in English	Printe	ed Name in Native	Language
	Arvind NARASIMHAN	(if ot)	ner than English)	

RECORDED: 07/21/2021