PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7609017

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GOWRI BHASKARA	12/05/2019
WEI ZOU	12/06/2019
BRENT MICHAEL JENSEN	12/06/2019
AHMED RAGAB NABHAN MOSTAFA	12/06/2019
BHAUMIK CHOKSHI	12/06/2019
ZAINAB HAKIM	12/06/2019
SHANTI KEMBURU	12/06/2019
NING LIU	12/06/2019
BENJAMIN WALTER MARTENS	12/05/2019
NICHOLAS ANTHONY SWANSON	12/06/2019

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:	17973049

CORRESPONDENCE DATA

Fax Number: (801)532-7543

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: 8015321500

Email: mspatent@rgn.com,usdocket1@microsoft.com

RAY QUINNEY & NEBEKER Correspondent Name: Address Line 1: 36 SOUTH STATE STREET

Address Line 2: **SUITE 1400**

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER: 407863-US-CNT

> **PATENT** REEL: 061530 FRAME: 0363

507562128

NAME OF SUBMITTER: TIFFANY B. HEALY		
SIGNATURE:	/Tiffany B. Healy, Reg.# 57912/	
DATE SIGNED:	10/25/2022	

Total Attachments: 20
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PATENT REEL: 061530 FRAME: 0364

I <u>Gowri BHASKARA</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

X	will	be	filed.	ASSIGNOR	hereby	autho	orizes,	and	req	uests,
	ASSIC	INE	E'S legal	representa	tive, Mici	rosoft	Techno	ology	Lice	nsing,
	LLC,	One	Microso	oft Way, Red	mond, Wa	ashing	ton 980)52 (A	SSIC	NEE'S
	LEGA	L R	EPRESEN	ITATIVES), t	o insert	here	in par	renthe	eses	(filed
	on		Decemb	oer 9, 2019	and		given	۵	ppli	cation
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	Pater	<u>it ai</u>	<u>nd Trade</u>	mark Office) this AP	PLICAT	ION's	Applic	atio	n No.,
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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")):

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.		Office
17/973,049	October 25, 2022	USPTO

Page 1 of 2

PATEN	T ASSIGNMENT	MS Docket No.:	<u>407863-US-NP</u>

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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	Grand Bhaskara	12/5/2019
	<u> 7 செச்சி கொல்ல</u> Inventor's Signature	Date
	Gowri BHASKARA	
	Printed Name in English	Printed Name in Native Language
L		(if other than English)

I <u>Wei ZOU</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

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	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 December 9, 2019 and given Application
	No. 16/707.897 by the following Office US - United States
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Page 1 of 2

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leitou	12/6/19
Inventor's Signature	Date
Wei ZOU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Brent Michael JENSEN</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

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Application No.	Filing Date	Office
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Page 1 of 2

	ASSIGNMENT	MS Docket No.:	***************************************

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Printed Name in English

| Date | Date | Dev Service | Dev

I Ahmed Ragab Nabhan MOSTAFA ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES" ("APPLICATION"), which:

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	ASSIGNEE'S legal representative, Microsoft Technology Licensin	g,
	LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE	'S
	LEGAL REPRESENTATIVES), to insert here in parentheses (file	ed
	on December 9, 2019 and given Application	m
	No. 16/707,897 by the following Office US - United State	22
	Patent and Trademark Office) this APPLICATION's Application No	J.,
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	No by the following Office	

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17/973,049	October 25, 2022	USPTO

Page 1 of 2

PATE	ENT ASSIGNM	ENT M		<u>407863-US-N</u>	

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Ahmed Ragab Nabhan Mostafa	12/6/2019	:
Inventor's Signature	Date	E.A.,
Ahmed Ragab Nabhan MOSTAFA		
Printed Name in English	Printed Name in Native Lang	uage
	(if other than English)	* .

	PATENT ASSIGNMENT	MS Docket No.	: <u>407863-US-NP</u>
of subject n " <u>PROVIDING</u>	tumik CHOKSHI ("ASSIGNOR") am the matter ("INVENTION") disclosed and a <u>ALTERNATE RESOURCE DEPLOYMENT</u> ON"), which:	or claimed in a patent	application entitled
	will be filed. ASSIGNOR hereb ASSIGNEE'S legal representative, M LLC, One Microsoft Way, Redmond, LEGAL REPRESENTATIVES), to inse on	icrosoft Technology Lic Washington 98052 (ASS Int here in parenthese Ind given App Ing Office <u>US – United</u> APPLICATION's Applicati	ensing, IGNEE'S s (filed lication <u>States</u>

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17/973,049	October 25, 2022	USPTO

Page 1 of 2

PATENT	ASSIGNMENT	MS Docket No.:	407863-US-NP

PATENT ACCIONMENT

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	Ancholesh.	12/6/19
	Inventor's Signature	Date
	Bhaumik CHOKSHI	
	Printed Name in English	Printed Name in Native Language
L		(if other than English)

I Zainab HAKIM ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES" ("APPLICATION"), which:

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	LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'
	LEGAL REPRESENTATIVES), to insert here in parentheses (file
	on <u>December 9, 2019</u> and given Application
*	No. <u>16/707,897</u> by the following Office <u>US - United State</u>
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Page 1 of 2

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Line	12/6/19
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Inventor's Signature	Date
Zainab HAKIM	
Printed Name in English	Printed Name in Native Language
~	(if other than English)
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I <u>Shanti KEMBURU</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

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ASSIGNEE'S legal	representat	ive, Micr	osoft Techn	ology Licensing
LLC, One Microso	ft Way, Redr	nond, Wa	shington 98	052 (ASSIGNEE'S
LEGAL REPRESEN	TATIVES), to	o insert	here in pa	rentheses (filed
on <u>Decemb</u>	er 6, 2019	and	given	Application
No. <u>16/707,897</u>	by the	following	Office <u>US</u>	- United States
Patent and Trade	mark Office)	this APF	'LICATION's	Application No.
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	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN onDecemb No16/707,897 Patent and Trade filing date, and O was filed on No	ASSIGNEE'S legal representate LLC, One Microsoft Way, Redrict LEGAL REPRESENTATIVES), to on	ASSIGNEE'S legal representative, Micro LLC, One Microsoft Way, Redmond, Wa LEGAL REPRESENTATIVES), to insert on December 6, 2019 and No 16/707,897 by the following Patent and Trademark Office) this APP filing date, and Office, when known; was filed on and was g No by the following	No. 16/707.897 by the following Office US Patent and Trademark Office) this APPLICATION's filing date, and Office, when known; was filed on and was given Application and was given and was given Application and was given Application and was given a

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17/973,049	October 25, 2022	USPTO
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Page 1 of 2

		MS Docket No.:	407863-US-NP
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Joh	12/6/2019
Inventor's Signature	Date
Shanti KEMBURU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Ning LIU</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

MS Docket No.: 407863-US-NP

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Page 1 of 2

PATENT REEL: 061530 FRAME: 0379

PATENT ASSIGE	NMEN I	MS Docket No.:	40/863-US-NE

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Nies Wie	12/6/20/9
Inventor's Signature	Date
Ning LIU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Benjamin Walter MARTENS</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>PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES</u>" ("APPLICATION"), which:

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12/5/2019	
Inventor's Signature Date	
Benjamin Walter MARTENS	
Printed Name in English Printed Name in Native Language	
(if other than English)	

MS Docket No.: 407863-US-NP

I Nicholas Anthony SWANSON ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING ALTERNATE RESOURCE DEPLOYMENT GUIDANCE FOR USE WITH CLOUD SERVICES" ("APPLICATION"), which:

X	will b	e filed.	ASSIGN	OR her	eby a	uthorizes,	and	requests,
	ASSIGN	VEE'S le	gal represe	ntative,	Micros	oft Techn	ology L	icensing,
	LLC, O	ne Micro	osoft Way, I	Redmono	i, Wash	ington 98	052 (AS	SIGNEE'S
	LEGAL	REPRES	ENTATIVES), to in	sert h	ere in pa	irenthes	es (filed
	on	Dece	mber 9, 201	9	and	given	Ap	plication
	No	16/707,8	97 by 1	he follo	wing (Office <u>US</u>	- Unite	ed States
	<u>Patent</u>	and Tra	<u>idemark Of</u>	fice) this	S APPLI	CATION's	Applica	tion No.,
	filling c	iate, and	d Office, wh	en know	/n;			
	was fil	ed on		and v	vas giv	en Applica	ition	
	No		by t	he follov	ving Of	fice		
	4			22	· · · · · · · · · · · · · · · · · · ·			

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	
17/973,049	October 25, 2022	USPTO	

Page 1 of 2

PATENT	ASSIGNMENT	MS Docket No.:	407863-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"));

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).

****	***************************************	
	2~~~	12-6-2019
	Inventor's Signature	Date
	Nicholas Anthony SWANSON	
	Printed Name in English	Printed Name in Native Language
		(if other than English)

RECORDED: 10/25/2022