

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5857820

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:	16707897
CORRESPONDENCE DATA	
Fax Number:	(801)532-7543
<i>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.</i>	
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Address Line 4:	SALT LAKE CITY, UTAH 84111
ATTORNEY DOCKET NUMBER:	407863-US-NP

PATENT

NAME OF SUBMITTER:	TIFFANY B. HEALY
SIGNATURE:	/Tiffany B. Healy, Reg.# 57912/
DATE SIGNED:	12/09/2019
Total Attachments: 20 source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page1.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page2.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page3.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page4.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page5.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page6.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page7.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page8.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page9.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page10.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page11.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page12.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page13.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page14.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page15.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page16.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page17.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page18.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page19.tif source=407863-US-NP-2019-12-09_ExecutedAssignments-ALL#page20.tif	

I Wei ZOU ("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:

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 December 9, 2019 and given Application No. 16/707,897 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 "_____";

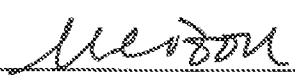
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (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"));

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

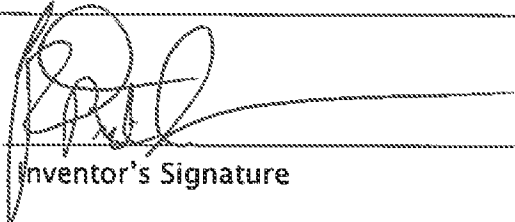
For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all 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"));

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).

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

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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	<u>12/6/19</u>
Inventor's Signature	Date
<u>Brent Michael JENSEN</u>	<u>Brent Michael Jensen</u>
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 407863-US-NP

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<u>Ahmed Ragab Nabhan Mostafa</u>	<u>12/6/2019</u>
Inventor's Signature	Date
<u>Ahmed Ragab Nabhan MOSTAFA</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Bhaumik CHOKSHI ("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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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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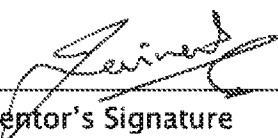
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	<u>12/6/19</u>
Inventor's Signature	Date
Zainab HAKIM	
Printed Name in English	Printed Name in Native Language (if other than English)

I Shanti KEMBURU ("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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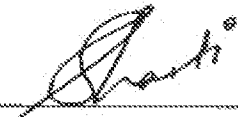
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 Inventor's Signature	12/6/2019 Date
Shanti KEMBURU Printed Name in English	 Printed Name in Native Language (if other than English)

I Ning LIU ("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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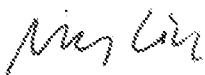
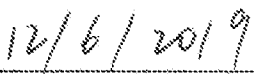
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_____ Inventor's Signature	_____ Date
Ning LIU	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

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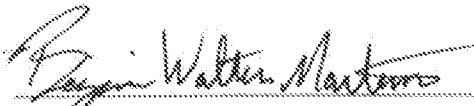
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	<u>12/5/2019</u>
Inventor's Signature	Date
<u>Benjamin Walter MARTENS</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

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Inventor's Signature	Date
<u>Nicholas Anthony SWANSON</u>	
Printed Name in English	Printed Name in Native Language (if other than English)