

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CAGRI OZCAGLAR	06/13/2019
GIO CARLO C. BORJE	06/18/2019
SAHIN C. GEYIK	06/13/2019
GURWINDER S. GULATI	06/13/2019
KETAN THAKKAR	06/14/2019
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:	16446364
CORRESPONDENCE DATA	
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<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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ATTORNEY DOCKET NUMBER:	LI-902495-US-NP
NAME OF SUBMITTER:	DANIEL E. VAUGHAN
SIGNATURE:	/Daniel E. Vaughan/
DATE SIGNED:	07/02/2019
Total Attachments: 10	

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source=LI-902495-US-NP Assignment Signed#page10.tif

I Cagri Ozcaglar ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CONTEXTUAL SEARCH RANKING USING ENTITY TOPIC REPRESENTATIONS" ("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 _____ and given Application No. _____ by the following Office "U.S. Patent and Trademark Office" this APPLICATION's Application No., filing date, and Office, when known;
- was filed on 19 June 2019 and was given Application No. 16/446,364 by the following Office "U.S. Patent and Trademark Office";

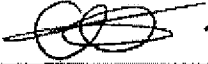
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION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

 _____ Inventor's Signature	<u>06/13/2019</u> _____ Date
<u>Cagri Ozcaglar</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Gio Carlo C. Borje ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CONTEXTUAL SEARCH RANKING USING ENTITY TOPIC REPRESENTATIONS" ("APPLICATION"), which:

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	06/18/2019
_____ Inventor's Signature	_____ Date
Gio Carlo C. Borje	_____ Printed Name in Native Language (if other than English)
_____ Printed Name in English	

I Sahin C. Geyik ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CONTEXTUAL SEARCH RANKING USING ENTITY TOPIC REPRESENTATIONS" ("APPLICATION"), which:

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	06.13.2019
_____ Inventor's Signature	_____ Date
Sahin C. Geyik _____ Printed Name in English	Sahin C. Geyik _____ Printed Name in Native Language (if other than English)

I Gurwinder S. Gulati ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CONTEXTUAL SEARCH RANKING USING ENTITY TOPIC REPRESENTATIONS" ("APPLICATION"), which:

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<u><i>Gurwinder S. Gulati</i></u>	<u>06/13/19</u>
Inventor's Signature	Date
<u>Gurwinder S. Gulati</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Ketan Thakkar ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CONTEXTUAL SEARCH RANKING USING ENTITY TOPIC REPRESENTATIONS" ("APPLICATION"), which:

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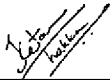
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 _____ Inventor's Signature	06/14/19 _____ Date
Ketan Thakkar _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)