

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LENGNING LIU	06/29/2021
WILLIAM MOHABBATI	06/30/2021
JOERG DERUNGS	06/30/2021
TANUJA MACHINENI	06/30/2021
MANU MEDIGESI SHIVAKUMAR	06/29/2021
SIDDHESH RAMESH SURVE	06/30/2021
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:	17362957
CORRESPONDENCE DATA	
Fax Number:	
<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:	PLANO, TEXAS 75093
ATTORNEY DOCKET NUMBER:	410189-US-NP
NAME OF SUBMITTER:	HOLLI L. TEMPLETON
SIGNATURE:	/Holli L. Templeton/
DATE SIGNED:	07/07/2021

Total Attachments: 12

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I Lengning LIU ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION" ("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 June 29, 2021 and given Application No. 17/362,957 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 "US - United States 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"));

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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).

	<u>6/29/2021</u>
Inventor's Signature	Date
<u>Lengning LIU</u>	<u>刘冷宁</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I **William MOHABBATI** ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "**DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION**" ("APPLICATION"), which:

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MS Docket No.: 410189-US-NP

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	6/30/2021
_____ Inventor's Signature	_____ Date
William MOHABBATI	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Joerg DERUNGS ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION" ("APPLICATION"), which:

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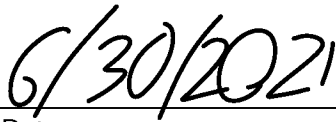
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 Inventor's Signature	 Date
Joerg DERUNGS Printed Name in English	 Printed Name in Native Language (if other than English)

I **Tanuja MACHINENI** ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "**DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION**" ("APPLICATION"), which:

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<u><i>Tanuja</i></u>	<u>06/30/2021</u>
Inventor's Signature	Date
<u>Tanuja MACHINENI</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Manu Medigesu SHIVAKUMAR ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION" ("APPLICATION"), which:

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<u>Manu Mediges</u>	<u>29th June 2021</u>
Inventor's Signature	Date
<u>Manu Mediges SHIVAKUMAR</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)

I **Siddhesh Ramesh SURVE** ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "**DATA AGGREGATION IN A HIERARCHY FOR QUERY EXECUTION**" ("APPLICATION"), which:

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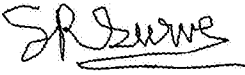
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	6/30/21
_____ Inventor's Signature	_____ Date
Siddhesh Ramesh SURVE	_____
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)