505547756 06/27/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5594553

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZIAD AL BAWAB	06/24/2019
CEM AKSOYLAR	06/24/2019
SHUANGYU CHANG	06/24/2019
SUYASH CHOUDHURY	06/24/2019
ANAND U DESAI	06/24/2019
DHIRESH RAWAL	06/23/2019
RISHI GIRISH	06/25/2019
MARCUS JAGER	06/24/2019
MICHAEL LEVIT	06/24/2019
TAO LI	06/26/2019
XI MENG	06/24/2019
ANANTH RAMPURA SHESHAGIRI RAO	06/24/2019

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:	16454621

CORRESPONDENCE DATA

(203)972-7627 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.

Phone: 203-972-0006

Email: microsoft@bmtpatent.com

BUCKLEY, MASCHOFF & TALWALKAR LLC Correspondent Name:

Address Line 1: **50 LOCUST AVENUE**

Address Line 4: **NEW CANAAN, CONNECTICUT 06840**

REEL: 049612 FRAME: 0948 505547756

PATENT

ATTORNEY DOCKET NUMBER:	406644-US-NP (M15.108)
NAME OF SUBMITTER:	NICHOLAS M. STABLER
SIGNATURE:	/NMS/
DATE SIGNED:	06/27/2019

Total Attachments: 24

source=406644-US-NP ExecutedAssignment#page1.tif source=406644-US-NP_ExecutedAssignment#page2.tif source=406644-US-NP ExecutedAssignment#page3.tif source=406644-US-NP_ExecutedAssignment#page4.tif source=406644-US-NP_ExecutedAssignment#page5.tif source=406644-US-NP ExecutedAssignment#page6.tif source=406644-US-NP ExecutedAssignment#page7.tif source=406644-US-NP_ExecutedAssignment#page8.tif source=406644-US-NP ExecutedAssignment#page9.tif source=406644-US-NP ExecutedAssignment#page10.tif source=406644-US-NP ExecutedAssignment#page11.tif source=406644-US-NP_ExecutedAssignment#page12.tif source=406644-US-NP_ExecutedAssignment#page13.tif source=406644-US-NP ExecutedAssignment#page14.tif source=406644-US-NP ExecutedAssignment#page15.tif source=406644-US-NP_ExecutedAssignment#page16.tif source=406644-US-NP_ExecutedAssignment#page17.tif source=406644-US-NP_ExecutedAssignment#page18.tif source=406644-US-NP ExecutedAssignment#page19.tif source=406644-US-NP ExecutedAssignment#page20.tif source=406644-US-NP_ExecutedAssignment#page21.tif source=406644-US-NP_ExecutedAssignment#page22.tif source=406644-US-NP ExecutedAssignment#page23.tif source=406644-US-NP ExecutedAssignment#page24.tif

> PATENT REEL: 049612 FRAME: 0949

MS Docket No.: 406644-US-NP

I Ziad AL BAWAB ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

\boxtimes	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 27, 2019 and given Application No. 16/454,621 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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62/841,982	May 2, 2019	US	

Page 1 of 2

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Inventor's Signature

Ziad AL BAWAB

Printed Name in English

<u>6/24/2019</u>

Date

Printed Name in Native Language

MS Docket No.: 406644-US-NP

(if other than English)

MS Docket No.: <u>406644-US-NP</u>

I Cem AKSOYLAR ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

X	will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S
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MS Docket No.: 406644-US-NP

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- 4/1///w	6/24/2019
Inventor's Signature	Date
Cem AKSOYLAR	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	angyu CHANG ("ASSIGNOR") am the original inventor or an original joint subject matter ("INVENTION") disclosed and/or claimed in a patent application
entitled	"ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION"
("APPLICATIO	DN"), which:
15	
	will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S
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Page 1 of 2

MS Docket No.: <u>406644-US-NP</u>

Commended by the ASSICNES ASSI

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Printed Name in Inglish

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MS Declaration (1984)

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Page 1013

I Suyash CHOUDHURY ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

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Suyash Chowthuny	06 24 2019
Inventor's Signature	Date
Suyash CHOUDHURY	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Anand U DESAI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a palent ambication entitled

MS Docket No.: 406644-US-NP

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"ORGANIZATIONAL-E	BASED LANC	JUAGE	MODEL	GENER/	TION'	'("APPLICATION"),
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Inventor's Signature	06/24/2019 Date
Anand U DESAI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No. 406644-US-NP

I Dhiresh RAWAL ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which

Ø	will be filed. ASSIGNOR hereby authorizes, and requests, A	SSIGNEE'S
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PATENT REEL: 049612 FRAME: 0960

MS Docket No.: 406644-US-NP

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all huges	6/23)19
Inventor's Signature	Date
-	
Dhiresh RAWAL	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 406644-US-NP

I Rishi GIRISH ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

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Airle Gurish	June 25, 2019		
Inventor's Signature	Date		
Rishi GIRISH			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

I Marcus JAGER ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

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Inventor's Signature Date

Marcus JAGER
Printed Name in English Printed Name in Native Language (if other than English)

I Michael LEVIT ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

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June 29, 40/5

Javentor's Signature

Michael LEVIT

Printed Name in English

Printed Name in Native Language

(if other than English)

MS Docket No.: 406644-US-NP

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Inventor's Signature

Tao LI

Printed Name in English

00/26/2017

Date

Printed Name in Native Language

MS Docket No.: 406644-US-NP

(if other than English)

PATENT ASSIGNMENT ASSIGNMENT MS Docket No.: 406644-US-NP

I Xin MENG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("APPLICATION"), which:

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Office	"US -	United !	States	Paten	t and	Trade	mark	Offic	·	ac i	

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Xin Meng	06/24/2019
Inventor's Signature	Date
*Xin MENG	孟啊
Printed Name in English	Printed Name in Native Language
haggan with administration of section between	(if other than English)

I Ananth Rampura SHESHAGIRI RAO ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ORGANIZATIONAL-BASED LANGUAGE MODEL GENERATION" ("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 June 27, 2019 and given Application No. 16/454,621 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"));

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
62/841,982	May 2, 2019	US
	*	
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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).

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NJ-4	06/24/2019
Inventor's Signature	Date
Ananth Rampura SHESHAGIRI RAO Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 406644-US-NP