PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4270238

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DILEK Z. HAKKANI-TUR	04/14/2015
BENOIT DUMOULIN	05/15/2015
GOKHAN TUR	04/15/2015
LARRY P. HECK	05/14/2014
MURAT AKBACAK	04/23/2015

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14280070

CORRESPONDENCE DATA

Fax Number: (816)421-5547

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: 816-474-6550 Email: rebrown@shb.com

SHOOK, HARDY & BACON L.L.P. **Correspondent Name:**

Address Line 1: 2555 GRAND BLVD.

INTELLECTUAL PROPERTY DEPARTMENT Address Line 2:

Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	340646-US-NP/MFCP.200098
NAME OF SUBMITTER:	MOLLIE M. SMITH
SIGNATURE:	/MOLLIE M. SMITH/
DATE SIGNED:	02/10/2017

Total Attachments: 10

PATENT REEL: 041229 FRAME: 0580

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PATENT REEL: 041229 FRAME: 0581

I, DILEK Z. HAKKANI-TU joint inventor of subject m nonprovisional patent applicati IMPROVE LANGUAGE MODELS" (atter ("INVENTION") disc on entitled "KNOWLEDGE S	·
ASSIGNEE'S legal 2555 Grand Blo associated with REPRESENTATIVES on No. Office Application No., fi was filed on No. 14/280,070	and by iling date, and Office, whe	Hardy & Bacon L.L.P., buri 64108, who are 09 (ASSIGNEE'S LEGAL n parentheses (filed given Application the following) this APPLICATION's n known; vas given Application
successors and assigns ("ASSIC entire and exclusive rights, tit (and all other applications a applications, in and for the U ("APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INV and patents derived the United States, its territori	ENTION and the APPLICATION erefrom, such as continuing es, and all foreign countries
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

Page 1 of 2

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 in the INVENTION and the APPLICATION (and 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

Date

DILEK Z. HAKKANI-TUR

Printed Name in English

Dilelo Z. Hokkani -TJR

Printed Name in Native Language

(if other than English)

		_	l inventor or an original joint	
			or claimed in a nonprovisional	
			RSONALIZATION TO IMPROVE	
LANGUAGE N	Models" ("Applica	TION), WRICH:		
	will be filed.	ASSIGNOR hereby auth	orizes, and requests,	
	ASSIGNEE'S legal	representatives, of Shook	, Hardy & Bacon L.L.P.,	
	2555 Grand Blv	vd., Kansas City, Misso	ouri 64108, who are	
	associated with	customer number 4580	9 (ASSIGNEE'S LEGAL	
	REPRESENTATIVES	5), to insert here is	n parentheses (filed	
	on	and	given Application	
	No	by	_	
		, — — — — — — — — — — — — — — — — — — —		
	Application No., f	iling date, and Office, whe	n known;	
\boxtimes	was filed on M	<u>ay 16, 2014</u> and was	given Application No.	
	14/280,070	by the fol	lowing Office " <u>United</u>	
	States Patent and	Trademark Office";		
Micros	soft Corporation.	a Washington Corporation	n, on behalf of itself and its	
	•	•	is desirous of acquiring, the	
entire and exclusive rights, title and interest in the INVENTION and the APPLICATION				
(and all other applications and patents derived therefrom, such as continuing				
applications, in and for the United States, its territories, and all foreign countries				
("APPLICATIO	N DERIVATIVES"));		_	
ASSIG	NOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL	
	•	,	g date, and Office into the	
		TION DERIVATIVES after th	<u>-</u>	
·	 	Filing Date	Office	
Application N	10.	rinig bate	Office	
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Page 1 of 2

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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	04/23/2015
Inventor's Signature	Date
MURAT AKBACAK	
Printed Name in English	Printed Name in Native Language
	(if other than English)

		nal inventor or an original joint
inventor of subject matter ("	INVENTION") disclosed ar	nd/or claimed in a nonprovisional
patent application entitled	"KNOWLEDGE SOURCE	PERSONALIZATION TO IMPROVE
LANGUAGE MODELS" ("APPLI	CATION"), which:	
ASSIGNEE'S leg 2555 Grand associated wit	al representatives, of Sh Blvd., Kansas City, M th customer number 4	ook, Hardy & Bacon L.L.P., issouri 64108, who are 5809 (ASSIGNEE'S LEGAL in parentheses (filed
	/ 16, 2014 and	
No. <u>14</u> Office <u>US-U</u> n	1/280,070 by	the following fice) this APPLICATION's
□ was filed o	n and	was given Application
At-	her t	he following Office
No	n' n'	ne ionowing office
successors and assigns ("Alentire and exclusive rights, (and all other application applications, in and for the ("APPLICATION DERIVATIVES ASSIGNOR hereby REPRESENTATIVES to inser	SSIGNEE"), is entitled to, title and interest in the is and patents derived to United States, its tens")); authorizes, and the Application No.,	ation, on behalf of itself and its and is desirous of acquiring, the INVENTION and the APPLICATION therefrom, such as continuing itories, and all foreign countries requests, ASSIGNEE'S LEGAL filing date, and Office into the ter they are known;
Application No.	Filing Date	Office
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Page 1 of 2

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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Inventor's Signature	5/14/14 Date
Printed Name in English	Printed Name in Native Language (if other than English)

		original inventor or an original join sed and/or claimed in a nonprovisiona
	"KNOWLEDGE SOU	JRCE PERSONALIZATION TO IMPROVE
ASSIGNEE'S legal 2555 Grand B associated with REPRESENTATIVE on No Office Application No., Mass filed on 14/280,070 States Patent and Microsoft Corporation, successors and assigns ("ASS	I representatives, of lvd., Kansas City customer numb (S), to insert filing date, and Office (S) Trademark Office (S)	and given Application by the following) this APPLICATION's ffice, when known; nd was given Application No. the following Office " <u>United</u> 2"; prporation, on behalf of itself and its d to, and is desirous of acquiring, the
(and all other applications	and patents deri United States, its	the INVENTION and the APPLICATION rived therefrom, such as continuing territories, and all foreign countries
	the Application N	id requests, ASSIGNEE'S LEGAL No., filing date, and Office into the S after they are known;
		Office
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Page 1 of 2

6175422 v1

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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4	04/15/15	
Inventor's Signature	Date	
GOKHAN TUR		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

inventor of subject matter ('INVENTION") disclosed and/ "KNOWLEDGE SOURCE PE	al inventor or an original joint or claimed in a nonprovisional RSONALIZATION TO IMPROVE
2555 Grand associated wi REPRESENTATI on No. Office	gal representatives, of Shool Blvd., Kansas City, Misso th customer number 458 VES), to insert here i and by	ouri 64108, who are 09 (ASSIGNEE'S LEGAL n parentheses (filed given Application the following) this APPLICATION's
14/280,070	May 16, 2014 and was by the fo nd Trademark Office";	given Application No. Ilowing Office " <u>United</u>
successors and assigns ("A' entire and exclusive rights, (and all other application	SSIGNEE"), is entitled to, and title and interest in the INV s and patents derived th e United States, its territor	in, on behalf of itself and its is desirous of acquiring, the /ENTION and the APPLICATION erefrom, such as continuing ries, and all foreign countries
		ng date, and Office into the
Application No.	Filing Date	Office
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Page 1 of 2

6175430 v1

PATENT REEL: 041229 FRAME: 0590

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 in the INVENTION and the APPLICATION (and 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).

Beneit Donal	May 15 + 2015	
Inventor's Signature	Date	
Benoit Dumoulin		············
Printed Name in English	Printed Name in Native Language (if other than English)	

Page 2 of 2

6175430 v1

RECORDED: 02/10/2017