505690181 09/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5736991

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JASON DOUGLAS WILLIAMS	04/02/2015
NOBAL BIKRAM NIRAULA	04/02/2015
PRADEEP DASIGI	04/02/2015
APARNA LAKSHMIRATAN	04/01/2015
GEOFFREY G. ZWEIG	04/02/2015
ANDREY KOLOBOV	04/02/2015
CARLOS GARCIA JURADO SUAREZ	04/02/2015
DAVID MAXWELL CHICKERING	04/02/2015

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:	16582234

CORRESPONDENCE DATA

(612)332-9081 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.

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ATTORNEY DOCKET NUMBER:	14917.2531USC1/356390USCN
NAME OF SUBMITTER:	LAUREN L. SHERWOOD
SIGNATURE:	/Lauren L. SHerwood/

PATENT REEL: 050486 FRAME: 0432

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DATE SIGNED:	09/25/2019
Total Attachments: 16	
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PATENT REEL: 050486 FRAME: 0433

PATENT ASSIGNMENT

joint inventor of subject mat	ter ("INVENTION") disclos ATION OF LANGUAGE UN	original inventor or an origina ed and/or claimed in a paten IDERSTANDING SYSTEMS AND
ASSIGNEE'S lega LLC., One Mi (ASSIGNEE'S LE parentheses (file No. <u>14/678,315</u> <u>Patent and Trade</u>	ASSIGNOR hereby aut learn representative, Microsof crosoft Way, Redmond GAL REPRESENTATIVES), and on April 3, 2015 by the following Office when known;	t Technology Licensing, l, Washington 98052 to insert here in and given Application fice <u>US – United States</u>
	and was given Appropriately and was given Appropriately and was given Appropriately and the management of the management	plication
behalf of itself and its succe desirous of acquiring, the ent right of priority, in the INVENT patents derived therefrom, suc	essors and assigns ("ASSI ire and exclusive rights, t ION and the APPLICATION th as continuing application	on limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION")
	the Application No., filin	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application No.	Filing Date	Office

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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"));

James Lander Inventor's Signature	2 April 2015 Date
Jason Douglas Williams Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

inventor of subject matter ("INVI entitled "GENERATION OF LAN ("APPLICATION"), which:	ENTION") disclosed and/or	nal inventor or an original joint claimed in a patent application G SYSTEMS AND METHODS"
legal representation Microsoft Way, Representation REPRESENTATIVE April 3, 2015 following Office US	GNOR hereby authorizes, arve, Microsoft Technology edmond, Washington 9805 ES), to insert here in and given Application NoS - United States Patent aropplication No., filing date, and	Licensing, LLC., One 22 (ASSIGNEE'S LEGAL parentheses (filed on b. 14/678,315 by the big Trademark Office) this
was filed onfollowing Office "	and was given Applicati	ion No by the
of itself and its successors and acquiring, the entire and exclusive INVENTION and the APPLICATION such as continuing applications, it and all foreign countries ("APPLICATION IN APPLICATION IN APPLICAT	assigns ("ASSIGNEE"), is a rights, title and interest, income in the state of the s	cluding the right of priority, in the s and patents derived therefrom, the United States, its territories, ests, ASSIGNEE'S LEGAL
Application No.	Filing Date	Office
For good and valuable continuous the ASSIGNOR, the ASSIGNOR ASSIGNOR's entire and exclusive INVENTION and the APPLICATION such as continuing applications, in	R hereby sells, assigns are rights, title and interest, inc DN (and all other application	cluding the right of priority, in the s and patents derived therefrom,

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation

and all foreign countries ("APPLICATION DERIVATIVES"));

PATENT ASSIGNMENT

regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

amo	04/02/2015
Inventor's Signature	Date
Nobal Bikram Niraula	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

l <u>Pradeep Dasigi</u> ("ASSIG	NOR") am the original inver	itor <mark>or an ori</mark> ginal joint inventor o
amplect marrel (114AEM HOM.)	disclosed and/or claimed	in a natent application entitled
GENERATION OF LANGUA	GE UNDERSTANDING	SYSTEMS AND METHODS
("APPLICATION"), which:	· · · · · · · · · · · · · · · · · · ·	
Microsoft Way, R REPRESENTATIVE April 3, 2015 following Office US	GNOR hereby authorizes, and we, Microsoft Technology edmond, Washington 9805 ES), to insert here in and given Application No. 5 - United States Patent and States Patent Application States Patent Application States Patent Application States Patent Application Patent	Licensing, LLC., One 52 (ASSIGNEE'S LEGAL parentheses (filed on 5. 14/678,315 by the 5. Trademark Office) this
APPLICATION's Ap	oplication No., filing date, and	d Office, when known;
	and was given Applicat	
acquiring, the entire and exclusive INVENTION and the APPLICATIO such as continuing applications, ir and all foreign countries ("APPLICATION ASSIGNOR hereby	assigns ("ASSIGNEE"), is a rights, title and interest, income and all other application or whole or in part, in and for ATION DERIVATIVES")): authorizes. and reque	cluding the right of priority, in the s and patents derived therefrom, the United States, its territories,
REPRESENTATIVES to insert the for any APPLICATION DERIVATIVE	Application No., filing date.	and Office into the following table
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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

PATENT ASSIGNMENT

regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Signature	04/02/2075 Date
Pradeep Dasigi	Printed Name in Native Language
Printed Name in English	(if other than English)

PATENT ASSIGNMENT

l <u>Apaı</u>	<u>rna Laksh</u>	miratan (("ASSIGN	OR") a	m the o	riginal inv	entor or a	an origi	nal joint
inventor of	subject	matter	("INVENT	TON")	disclos	ed and/	or claime	d in a	ı patent
application	entitled	" <u>GENERA</u>	TION O	F LAN	GUAGE	UNDERS [*]	TANDING	SYSTE	MS AND
METHODS" ("APPLICA"	ΓΙΟΝ"), w	hich:						

\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 April 3, 2015 and given Application
	No. $14/678,315$ by the following Office <u>US - United States</u>
	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 "
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	off Tachnology Liconcing 11 C a Washington limited lightlift, same

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;

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Inventor's Signature	4 1 2015 Date
Aparna Lakshmiratan Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I <u>Geoffrey G. Zweig</u> ("A inventor of subject matter (application entitled " <u>GENERA</u> " <u>METHODS</u> " ("APPLICATION"), where the subject is the subject of the su	("INVENTION") disclosed <u>FION OF LANGUAGE UN</u>	
ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. <u>14/678,315</u> <u>Patent and Trade</u>	ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), and an April 3, 2015 by the following Offmark Office) this APPLICA ffice, when known;	: Technology Licensing, , Washington 98052 to insert here in and given Application ice <u>US – United States</u>
	and was given App v the following Office "	olication
Microsoft Technology Lie behalf of itself and its success desirous of acquiring, the enti- right of priority, in the INVENTI- patents derived therefrom, suc- for the United States, its to DERIVATIVES"));	ssors and assigns ("ASSI) re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and ons, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA		g date, and Office into the
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Inventor's Signature	4/2/2015 Date
Geoffrey G. Zweig	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>Andrey Kolobov</u> ("ASS inventor of subject matter (application entitled " <u>GENERAL</u> " ("APPLICATION"), where the subject is the subject of th	"INVENTION") disclosed TION OF LANGUAGE UN	
ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. 14/678,315 Patent and Trader filing date, and Of	ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), and an application of the following Office, when known;	Technology Licensing, Washington 98052 to insert here in and given Application ice <u>US – United States</u> TION's Application No.,
	and was given App the following Office "	lication
Microsoft Technology Lidebehalf of itself and its successifications of acquiring, the entire right of priority, in the INVENTIPATEMENTS derived therefrom, successification the United States, its to DERIVATIVES"));	ssors and assigns ("ASSI) re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and ons, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA	he Application No., filin	
Application No.	Filing Date	Office

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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"));

	04/02/2015
	04/02/2015
Inventor's Signature	Date
Andrey Kolobov	Андрей Колобов
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

l <u>Carlos</u>	Garcia Jurado	Suarez ("A	SSIGNOR") am the	original	inventor	r or an
original joint in	ventor of subj	ject matter ("	'INVENTIC	ON") disclo	sed and	/or claim	ed in a
patent applicati	on entitled " <u>(</u>	GENERATION	OF LAN	GUAGE UN	<u>IDERSTA</u>	NDING S	<u>YSTEMS</u>
<u>AND METHODS</u> "	("APPLICATIO	٧"), which:					
🗵 wil	I be filed.	ASSIGNOR	hereby	authorize	s, and	requests	· 1

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nd, Washington 9805
S), to insert here in
and given Application
Office <u>US – United State</u>
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application
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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	
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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"));

Calca Goycia Ja Inventor's Signature	4/2/2015 Date
Carlos Garcia Jurado Suarez	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I <u>David Maxw</u>	ell Chicke	<u>rina</u> ("ASSIGN	NOR") am	the original	invento	or or an ori	ginal
joint inventor of su	ıbject matı	ter ("INVENT	ION") dis	closed and/o	or clain	ned in a p	- atent
application entitled	"GENERA	TION OF LA	NGUAGE	UNDERSTA	VDING	SYSTEMS	AND
METHODS" ("APPLICA	ATION"), w	hich:					
🛭 will b	e filed.	ASSIGNOR	hereby	authorizes.	and	requests.	

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 April 3, 2015 and given Application
No. 14/678,315 by the following Office US - United States
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2	4/2/2015
Inventor's Signature	Date
Printed Name in English	Printed Name in Native Language
	(if other than English)