PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4243142

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUMIT GULWANI	10/20/2016
RANVIJAY KUMAR	10/24/2016
ABHISHEK UDUPA	10/20/2016
CRAIG ALLEN LEE	12/12/2016
GIOVANNI M. DELLA-LIBERA	01/15/2017

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:	15299412

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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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Correspondent Name: ASSAL MEFTAHI

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Address Line 2: PATENT GROUP DOCKETING DEPT Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	361012.01
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/Vladimir A. Kozyrev/
DATE SIGNED: 01/25/2017	
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Total Attachments: 10

PATENT REEL: 041083 FRAME: 0921

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PATENT REEL: 041083 FRAME: 0922

I Sumit Culwani ("ASSICNO	Ω R") am the original invent	or or an original joint inventor
of subject matter ("INVENTION")		-
"STRING TRANSFORMATION SUB	·	• • • •
	ASSIGNOR hereby author	
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	representative, Microsoft t Way, Redmond, Washing	5 ,
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behalf of itself and its successor	<u> </u>	
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derived therefrom, such as con		
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ASSIGNOR hereby authori	zes and requests ASSIGN	EE'S LEGAL REPRESENTATIVES
to insert the Application No., f	•	
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Application No.	Filing Date	Office
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MS Docket No.: <u>361012.01</u>

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

Sumit Gulwani

Printed Name in English

Date

Printed Name in Native Language

MS Docket No.: 361012.01

(if other than English)

	PATENT	ASSIGNMENT	MS Docket No.:	361012.01
inventor of application ("APPLICATIO	subject matter (entitled " <u>STRIN</u> DN"), which: will be filed. ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT	IGNOR") am the original "INVENTION") disclosed G TRANSFORMATION : ASSIGNOR hereby authoresentative, Microsoft ft Way, Redmond, Washing and given Application in the control of the contro	and/or claimed SUB-PROGRAM norizes, and rec Technology Lice gton 98052 (ASSIG	in a patent SUGGESTION' quests, ensing, GNEE'S I on
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behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti- ity, in the INVENTI red therefrom, suc- ited States, its	censing, LLC, a Washingto ssors and assigns ("ASSI re and exclusive rights, to ON and the APPLICATION h as continuing application territories, and all fore	GNEE"), is entitle itle and interest, (and all other app ons, in whole or in	d to, and is including the olications and part, in and
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MS Docket No.: 361012.01

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| 10/24/2016 | Inventor's Signature | Date | Ranvijay Kumar | マットリン チリス | Printed Name in Native Language (if other than English)

l <u>Abh</u>	<u>ishek Udupa</u> ("ASS	IGNOR") am the original	inventor or an original joint
inventor of	subject matter ("INVENTION") disclosed	and/or claimed in a patent
application	entitled "STRING	TRANSFORMATION S	SUB-PROGRAM SUGGESTION
("APPLICATIO)N"), which:		
	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
	ASSIGNEE'S legal	representative, Microsoft	Technology Licensing.
		ft Way, Redmond, Washing	
		ATIVES), to insert here in	•
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REPRESENTA	TIVES to insert th	ne Application No., filin	g date, and Office into the
following tab	ole for any APPLICA	TION DERIVATIVES after ti	ney are known;
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MS Docket No.: 361012.01

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")):

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Anny	20-0CT-2016
Inventor's Signature	Date
Abhishek Udupa	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 361012.01

PATEN	T ASSIGNMENT	MS Docket No.: 361012.01
inventor of subject matter application entitled "STR ("APPLICATION"), which:	("INVENTION") disclosed	al inventor or an original joint and/or claimed in a patent SUB-PROGRAM SUGGESTION"
ASSIGNEE'S leg LLC, One Micro LEGAL REPRESE	al representative, Microso soft Way, Redmond, Washir NTATIVES), to insert here in and given Application	ft Technology Licensing, ngton 98052 (ASSIGNEE'S nparentheses (filed on
	ffice Application No., filing o	
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behalf of itself and its succ desirous of acquiring, the en right of priority, in the INVEN patents derived therefrom, su	cessors and assigns ("ASS tire and exclusive rights, t TION and the APPLICATION ach as continuing application	on limited liability company, on IGNEE"), is entitled to, and is title and interest, including the (and all other applications and ons, in whole or in part, in and eign countries ("APPLICATION
ASSIGNOR hereby REPRESENTATIVES to insert following table for any APPLIC	the Application No., filir	uests, ASSIGNEE'S LEGAL ng date, and Office into the
Application No.	Filing Date	Office

Page 1 of 2

MS Docket No.: 361012.01

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"));

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Inventor's Signature	17/12/2016 Date
Craig Allen Lee	
Printed Name in English	Printed Name in Native Language (if other than English)

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	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT	representative, M ft Way, Redmond, \ `ATIVES), to insert l and given Appli	y authorizes, and icrosoft Technology Washington 98052 here in parentheses cation No	/ Licensing, (ASSIGNEE'S (filed on by
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⊠	was filed on October 20, 2016 and was given Application No 15/299,412 by the following Office "USPTO";			
behalf of its desirous of right of prior patents deriv	self and its succe acquiring, the enti rity, in the INVENT ved therefrom, suc ited States, its	ssors and assigns re and exclusive r ION and the APPLIC th as continuing ap	shington limited lia ("ASSIGNEE"), is e ights, title and inte ATION (and all othe oplications, in whole ill foreign countri	entitled to, and is rest, including the er applications and e or in part, in and
REPRESENTA	TIVES to insert t	he Application N	requests, AS o., filing date, and after they are knov	d Office into the
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MS Docket No.: 361012.01

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Large and the Commission	1/15/17
Inventor's Signature	Date
Giovanni M. Della-Libera	
Printed Name in English	Printed Name in Native Language
	(if other than English)