504554846 09/19/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT4601555

#### **CONVEYING PARTY DATA**

Name	Execution Date
OZ SOLOMON	07/03/2017
ERICH-SOREN FINKELSTEIN	06/30/2017
KEITH COLEMAN HEROLD	07/28/2017
CHRISTOPHER BRIAN QUIRK	07/27/2017

#### **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:	15640113

### **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.

**Phone:** 425-707-9382

Email: USDocket@microsoft.com

Correspondent Name: ASSAL MEFTAHI

Address Line 1: ONE MICROSOFT WAY

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

ATTORNEY DOCKET NUMBER: 402526-US-NP	
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/Vladimir A. Kozyrev/
DATE SIGNED:	09/19/2017

## **Total Attachments: 7**

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PATENT 504554846 REEL: 043631 FRAME: 0089

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PATENT REEL: 043631 FRAME: 0090

# PATENT ASSIGNMENT

inventor of subject matter ( application entitled "PARSERS FO will be filed.  ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT the following Office	"INVENTION") disclosed	S" ("APPLICATION"), which: orizes, and requests, Technology Licensing, ston 98052 (ASSIGNEE'S parentheses (filed on No by) this
	30, 2017 and was given A e following Office " <u>USPTO</u>	
Microsoft Technology Lice behalf of itself and its success desirous of acquiring, the entire right of priority, in the INVENTION patents derived therefrom, such for the United States, its to DERIVATIVES"));	ssors and assigns ("ASSION re and exclusive rights, ti ON and the APPLICATION ( the as continuing application)	tle and interest, including the (and all other applications and ns, in whole or in part, in and
ASSIGNOR hereby a REPRESENTATIVES to insert the following table for any APPLICA	ne Application No., filing	
Application No.	Filing Date	Office
	<u> </u>	

MS Docket No.: <u>402526-US-NP</u>

MS Docket No.: <u>402526-US-NP</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	July 3, 2017 Date
Oz SOLOMON	
Printed Name in English	Printed Name in Native Language
	(if other than English)

			ginal inventor or an original joint
inventor of sub	ject matter ("INVE	NTION") disclosed and/or clain	ned in a patent application entitled
"PARSERS FO	R DERIVING USER	<u>INTENTS</u> " ("APPLICATION")	, which:
		ASSIGNOR hereby authorizes,	* '
		Microsoft Technology Licensing	, ,
	Redmond, Washingt	ton 98052 (ASSIGNEE'S LEGA	L REPRESENTATIVES), to
	insert here in parent	heses (filed on	
		and given Application No	by the following
	Office	) this APPLI	CATION's Application No.,
	filing date, and Offic	ce, when known;	•
X	<del>-</del>	une 30, 2017 and was given Appl	lication No <u>15/640,113</u> by
	the following Office	<u>USPIO</u> ;	

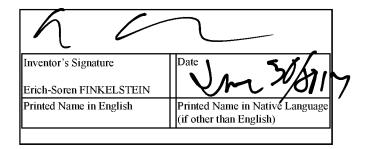
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (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

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).



PATENT REEL: 043631 FRAME: 0093

PATE	ENT ASSIGNMENT	MS Docket N	No.: <u>402526-US-NP</u>
I <u>Keith</u>	ı Coleman HEROLD (	"ASSIGNOR") am the origin	al inventor or an original joint
inventor of	subject matter ("I	NVENTION") disclosed a	nd/or claimed in a patent
application e	ntitled " <u>PARSERS FO</u>	R DERIVING USER INTENTS	" ("APPLICATION"), which:
	will be filed.	ASSIGNOR hereby autho	rizes, and requests,
		epresentative, Microsoft <sup>-</sup>	•
	_	: Way, Redmond, Washingt	<b>.</b>
	•	ATIVES), to insert here in pa	·
		_ and given Application No	
		e	•
	APPLICATION's App	olication No., filing date, ar	nd Office, when known;
$\boxtimes$		<u>0, 2017</u> and was given Ap following Office " <u>USPTO</u> "	
Micros	soft Technology Lice	ensing, LLC, a Washington	limited liability company, on
behalf of itse	lf and its successors	and assigns ("ASSIGNEE"),	is entitled to, and is desirous
of acquiring,	, the entire and exc	clusive rights, title and in	terest, including the right of
priority, in th	ne INVENTION and th	he APPLICATION (and all o	ther applications and patents
derived there	efrom, such as cont	inuing applications, in wh	ole or in part, in and for the
United States	s, its territories, and	all foreign countries ("APF	PLICATION DERIVATIVES"));
	•	•	EE'S LEGAL REPRESENTATIVES
		<del>-</del>	the following table for any
	N DERIVATIVES after	-	•
Application	No.	Filing Date	Office

### PATENT ASSIGNMENT

MS Docket No.: <u>402526-US-NP</u>

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Inventor's Signature	7/28/2017 Date
Keith Coleman HEROLD	
Printed Name in English	Printed Name in Native Language
	(if other than English)

# PATENT ASSIGNMENT

MS Docket No.: 402526-US-NP

joint invento	or of subject mate entitled " <u>PARSERS I</u> will be filed. ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN' the following Off	ter ("INVENTION") FOR DERIVING USEI ASSIGNOR herel representative, N oft Way, Redmond, TATIVES), to insert and given Appl ice	im the original invento disclosed and/or clain R INTENTS" ("APPLICATI by authorizes, and ficrosoft Technology L Washington 98052 (AS here in parentheses (fi lication No.	ned in a paten ON"), which: requests, licensing, SSIGNEE'S led on by) this
Micro behalf of its desirous of right of prior patents deriv	15/640,113 by the soft Technology Lister Self and its successive acquiring, the entry, in the INVENT yed therefrom, successited States, its	he following Office icensing, LLC, a Wa essors and assign ire and exclusive i ION and the APPLIC th as continuing a	given Application No " <u>USPTO</u> "; shington limited liabili s ("ASSIGNEE"), is enti- rights, title and interes CATION (and all other a pplications, in whole or	itled to, and is it, including the applications and r in part, in and
			d requests, ASSIG o., filing date, and (	
			o., ming date, and to Safter they are known;	
Application I	No.	Filing Date	Office	
		1		<u> </u>

MS Docket No.: 402526-US-NP

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).

ALR LA	7 24 2014
Inventor's Signature	Date
Christopher Brian QUIRK	
Printed Name in English	Printed Name in Native Language
	(if other than English)