PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4872676

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DENIS POSSING	07/28/2013
GAIL GIACOBBE	07/31/2013
JANE KIM	08/13/2013
RUTH KIKIN-GIL	07/26/2013
BOJANA OSTOJIC	01/31/2014

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:	15833788

CORRESPONDENCE DATA

Fax Number: (509)252-5002

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: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

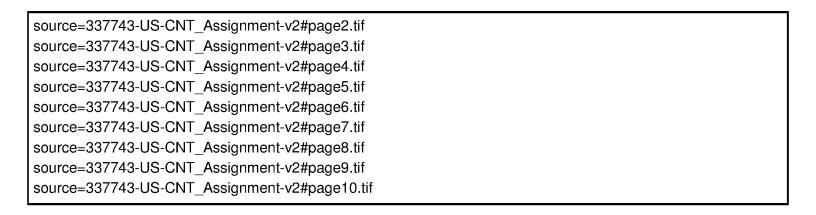
ATTORNEY DOCKET NUMBER:	337743-US-CNT
NAME OF SUBMITTER:	ALEX LEA
SIGNATURE:	/alex lea/
DATE SIGNED:	03/19/2018

Total Attachments: 10

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PATENT REEL: 045275 FRAME: 0822

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PATENT REEL: 045275 FRAME: 0823

PATENT ASSIGNMENT MS Docket No.: 337743.02

 De	nis Possing	("ASSIGNOR")	am the o	riginal inven	tor or an	original joint
of	subject matte ntitled " <u>OPPOR</u> T	r ("INVENTION	l") disclo	sed and/or	claimed	
\boxtimes	will be filed.	ASSIGNOR	hereby	authorizes,	and rec	ιuests,
	ASSIGNEE'S leg	al representat	ives, of th	ne Law and C	Corporate .	Affairs
	Department, M	licrosoft Corpo	ration, O	ne Microsoft	Way, Red	mond,
	Washington 98	052 (ASSIGNE	e's legal	REPRESENTA	TIVES), to	insert
	here in pare	ntheses (filed	on Feb	ruary 7, 20	013 and	given
	Application No	. 14/175,971	by the f	ollowing Off	ice <u>US –</u>	<u>United</u>
	States Patent	and Trade	mark O	ffice) this	APPLICA ^T	TION's
	Application No	., filing date, a	nd Office	, when know	n;	
	was filed on		and was g	jiven Applica	tion No	
		by the follo	wing Offi	ce		
	u	•	".			

Microsoft Corporation, a Washington Corporation, 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 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 ("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	
15/833,788	December 6, 2017	USPTO	

MS Docket No.: 337743.02

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).

Wen Por	7/20/2012
Inventor's Signature	7/28/2013 Date
Denis Possing	
Printed Name in English	Printed Name in Native Language (if other than English)

I	<u>GAI</u>	L GIACC	BBE ("A	SSIGNOR")	am the	e origina	d invent	or or an	orig	gina	ıl joint
invento	r of	subject	matter	("INVENTI	ION") d	isclosed	and/or	claimed	in	a	patent
applicat	ion e	ntitled "	<u>OPPORTU</u>	JNITY EVEN	<u>vts</u> " ("A	PPLICATI	ON"), wh	ich:			
	K21										

X	will	be	filed.	ASSIGNOR	hereby	authorizes	s, and	reque	sts,
	ASSI	GNEI	E'S legal	representati	ves, of th	ne Law and	Corpor	ate Aff	airs
	Depa	artm	ent, Micr	osoft Corpo	ration, O	ne Microso	ft Way,	Redmo	nd,
	Wash	ningt	ton 9805	2 (ASSIGNEE	'S LEGAL	REPRESENT	TATIVES), to in:	sert
	here	in	parenth	eses (filed	on Feb	ruary 7,	2014 a	ınd gi	ven
	Appl	icati	on No. 1	14/175,971	by the f	ollowing C	ffice <u>US</u>	<u> </u>	<u>ited</u>
	State	25	Patent	<u>and Trade</u> i	<u>mark O</u>	ffice) this	S APPL	ICATIO	N's
	Appl	icati	on No., f	iling date, ar	nd Office	, when kno	wn;		

was filed on	and was given Application No
	by the following Office
u	n,

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15/833,788	December 6, 2017	USPTO	

MS Docket No.: 337743.02

MS Docket No.: 337743.02

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G. 06.	7/31/2013
Inventor's Signature	Date
GAIL GIACOBBE	
Printed Name in English	Printed Name in Native Language (if other than English)

of subject m	Kim ASSIGNOR") am the original inventor or an original joint inventor natter ("INVENTION") disclosed and/or claimed in a patent application ORTUNITY EVENTS" ("APPLICATION"), which:
\boxtimes	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representatives, of the Law and Corporate Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmond,
	Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert
	here in parentheses (filed on February 7, 2014 and given
	Application No. 14/175,971 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
	"

Microsoft Corporation, a Washington Corporation, 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 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 ("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
15/833,788	December 6, 2017	USPTO

MS Docket No.: 337743.02

MS Docket No.: 337743.02

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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).

	13 AUGUST 2013
Inventor's Signature	Date
Jane Kim	
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Ruth KIKIN-GIL</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>OPPORTUNITY EVENTS</u>" ("APPLICATION"), which:

X	will	be	filed.	ASSIGI	NOR	hereb	y autho	orizes,	and	requ	uests,
	ASSI	GNE	E'S legal	represe	ntati	ves, of	the Law	and C	orpor	ate A	ffairs
	Depa	artm	ent, Micr	osoft C	orpo	ration,	One Mi	crosoft	Way,	Redn	nond,
	Was	hingt	ton 9805	2 (ASSI	GNEE	'S LEG	AL REPRI	ESENTA	TIVES), to	insert
	here	in	parenth	ieses (filed	on F	ebruary	7, 20	14 a	ınd	given
	App	licati	on No.	14/175	,971	by the	e followi	ng Off	ice <u>US</u>	<u> </u>	<u> Inited</u>
	State	25	Patent	and T	rade	<u>mark</u>	Office)	this	APPL	ICAT	ION's
	App	licati	on No., f	iling da	te, ar	nd Offi	ce, wher	ı knowı	า;		

was filed on .	and was given Application No								
by the following Office									
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	y								

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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
15/833,788	December 6, 2017	USPTO

MS Docket No.: 337743.02

MS Docket No.: 337743.02

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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).

	7/26/20	013
Inventor's Signature Ruth Kikin-Gil	Date	רות קיקין-גיל
Printed Name in English	Printed Name in Na (if other than Englis	

MS Docket No.: <u>337743.02</u>

I <u>Bojana OSTOJIC</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>Opportunity Events</u>" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	autho	rizes,	and re	equests,
	ASSI	GNE	E'S legal	representat	ives, of ti	he Law	and C	orporate	2 Affairs
	Dep	artm	ent, Mic	rosoft Corpo	ration, C	ne Mic	rosoft	Way, Re	dmond,
	Was	hing	ton 980	52 (ASSIGNEI heses (filed	E'S LEGAL	REPRE	3ENTA 2014	ilves), i and	d aiven
	here	l (N Nest	parent ion No	neses (IIIeu 14/175,97 <u>1</u>	by the	e follow	ing Of	fice <u>US</u>	<u>- United</u>
	Stat	a. es	Patent_	and Trade	mark (office)	this	APPLIC	ATION'S
	App	licat	ion No.,	filing date, a	and Office	e, when	know	n;	

was filed on _	and w	as given	Application	No_	by the	followi	ng
Office "_";							

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following table for any APPLICATION DERIVATIVES after they are known;

Application No. Filing Date Office

15/833,788 December 6, 2017

December 6, 2017

MS Docket No.: <u>337743.02</u>

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Inventor's/Signature

1/31/2014

Date

Bojana OSTOJIC

Printed Name in English

BOJANA OSTOJIC

Printed Name in Native Language (if other than English)

Page 2 of 2