PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5355140

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENTON PAUL ANTHONY O'HARA	04/01/2014
MICHAEL ANTHONY MASSIMI	02/14/2014
MATTHEW KAY	04/01/2014
RICHARD HARPER	04/01/2014
JAMES WILLIAM SCOTT	03/31/2014

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:	16143302

CORRESPONDENCE DATA

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.

Email: usdocket@microsoft.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER P.A.

Address Line 1: PO BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402-0938

ATTORNEY DOCKET NUMBER:	340994-US-CNT[2] .360US3	
NAME OF SUBMITTER:	JACQUELINE PENNINGTON	
SIGNATURE:	/ Jacqueline Pennington /	
DATE SIGNED:	02/01/2019	

Total Attachments: 11

source=1777360US3INVASSGN#page1.tif source=1777360US3INVASSGN#page2.tif

PATENT 505308360 REEL: 048216 FRAME: 0421

source=1777360US3INVASSGN#page3.tif
source=1777360US3INVASSGN#page4.tif
source=1777360US3INVASSGN#page5.tif
source=1777360US3INVASSGN#page6.tif
source=1777360US3INVASSGN#page7.tif
source=1777360US3INVASSGN#page8.tif
source=1777360US3INVASSGN#page9.tif
source=1777360US3INVASSGN#page10.tif
source=1777360US3INVASSGN#page11.tif

PATENT REEL: 048216 FRAME: 0422

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 340994-US-CNT[2] (1777.360US3)

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
	Name: Microsoft Corporation
Kenton Paul Anthony O'Hara, Michael Anthony Massimi, Matthew Kay, Richard Harper, James William Scott	Street Address: One Microsoft Way
Additional name(s) of conveying party(ies) attached? []Yes [X]No	City: Redmond State: WA Zip: 98052 Country: United States of America
3. Nature of conveyance:	Additional name(s) & address(es) attached? []Yes [X]No
[X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	
Execution Date: April 1, 2014, February 14, 2014, April 1, 2014, April 1, 2014, March 31, 2014	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the	ne execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
Serial No. 16/143,302	
Additional numbers attached? []Yes [X]No	
	6. Total number of applications and patents involved: 1
5. Name and address of party to whom correspondence concerning document should be mailed:	7. Total fee (37 CFR 3.41): \$ <u>0.00</u>
Name: Robert M. Hirming	[]Enclosed
Address: Schwegman Lundberg & Woessner, P.A.	[]Authorized to be charged to deposit account 19-0743
P.O. Box 2938 Minneapolis, Minnesota 55402	8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743
DO NOT USE TI	HIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing information of the original document.	on is true and correct and any attached copy is a true copy
Robert M. Hirning/Reg. No. 59,215 Name of Person Signing	January 31, 2019 Signature Date
Total n	umber of pages including cover sheet: 11

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

> PATENT REEL: 048216 FRAME: 0423

l <u>Ken</u> t	ton Paul Anthony	<u>O'HARA</u> ("ASSIGNOR") an	n the original inventor or an
original joint	t inventor of subje	ect matter ("INVENTION")	disclosed and/or claimed in a
patent app	lication entitled	"EVOLVING RULE BAS	SED CONTACT EXCHANGE"
("APPLICATIO)N"), which:		
\boxtimes	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
	ASSIGNEE'S legal	representatives, of the Lav	w and Corporate Affairs
	<u> </u>	osoft Corporation, One M	į
	•	2 (ASSIGNEE'S LEGAL REPR	• • • • • • • • • • • • • • • • • • • •
		eses (filed on $\frac{4-3-14}{}$	
		o. <u>14/244,850</u>	
		iling date, and Office, whe	
	, ,		· ·
	was filed on	and was given	Application
		by the following Office	• "
	t t	".	
		······································	
Micro	soft Corporation.	a Washington Corporatio	n, on behalf of itself and its
	•		is desirous of acquiring, the
	20	, ,	g the right of priority, in the
	-		ications and patents derived
			in part, in and for the United
	_	reign countries ("APPLICAT	·
Jeecos, sea con	mones, and an io	icigii countiics (At i cicA i	iore berry arrange,
ASSIC	NICO harahy	authorizes and reco	uests, ASSIGNEE'S LEGAL
	•	·	g date, and Office into the
		TION DERIVATIVES after th	
Application N	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Filing Date	Office
Application	*O.		Office

PATENT ASSIGNMENT

MS	Docket No.:	340994.01

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"));

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).

Keety O'Hara	01/04/2014		
Inventor's Signature	Date		
Kenton Paul Anthony O'HARA			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

l <u>Mich</u>	ael Antho	ny MASS	SIMI ("ASSIGN	IOR") am	the ori	ginal inv	entor or	an origina
joint invento	r of subj	ect mati	er ("INVENT	ION") dis	closed	and/or	claimed i	n a paten
application of which:	entitled " <u>I</u>	EVOLVIN	G RULE BAS	ED CON	TACT E	XCHANG	<u>E</u> " ("APPL	.ication")
	ASSIGNED Departm Washingt here in Applicati Office _ Applicati	E'S legal ent, Mici ton 9805 parenth on N USPTO on No.,	ASSIGNOR representations for Corposite Corpos	ves, of the ration, O i'S LEGAL on 4-3 4,850 nd Office	ne Law ane Microne REPRES 14 by by by , when the	and Corposed to Sentative the this Alkinown;	oorate Af ay, Redm /ES), to ir and g follow PPLICATIO	fairs ond, isert iiven wing
	No		by the f	ollowing		oplicatio	n	
Microssuccessors a entire and e INVENTION atherefrom, s	nd assign xclusive and the auch as co	ns ("ASSI rights, t APPLICA ntinuing	itle and inte TION (and a application	ntitled to rest, incl all other s, in who	, and is luding t applica le or in	s desirou the righ ations a part, in	us of acq t of prio nd pater and for	uiring, the rity, in the ots derived the United
ASSIG REPRESENTA' following tab	TIVES to	insert 1	· -	ion No.,	filing	date, a	nd Offic	
Application N		7 KC 0 3883 Mg/F	Filing Date)ffice		

		}
·		

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).

mmasonni	2/14/2014	
Inventor's Signature	Date	
Michael Anthony MASSIMI		
Printed Name in English	Printed Name in Native Language (if other than English)	

I <u>Matthew KAY</u> ("ASSIC inventor of subject matter (application entitled " <u>EVOLVING</u> which:	("INVENTION") disclosed	
ASSIGNEE'S legal Department, Micr Washington 9805 here in parenth Application N Office USPTO	ASSIGNOR hereby authorepresentatives, of the Lawosoft Corporation, One M 2 (ASSIGNEE'S LEGAL REPReses (filed on $\frac{4-3-14}{0}$) o. $\frac{14/244,850}{0}$	w and Corporate Affairs icrosoft Way, Redmond, IESENTATIVES), to insert and given by the following this APPLICATION's
	and was given by the following Office ";	
Microsoft Corporation, successors and assigns ("ASSIMENTIFE and exclusive rights, to INVENTION and the APPLICATE therefrom, such as continuing States, its territories, and all fo	GNEE"), is entitled to, and tle and interest, including FION (and all other appl applications, in whole or	g the right of priority, in the ications and patents derived in part, in and for the United
ASSIGNOR hereby REPRESENTATIVES to insert t following table for any APPLICA		g date, and Office into the
Application No.	Filing Date	Office
Approximation in the second se		Office
•••••••••••••••••••••••••••••••••••••••		

_	**************************************	
1		 **************************************
1		1
1		ł

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

Date

Matthew KAY

Printed Name in English

Printed Name in Native Language

(if other than English)

inventor of subject matter	("INVENTION") disclosed	inventor or an original joint and/or claimed in a patent <u>EXCHANGE</u> " ("APPLICATION"),
ASSIGNEE'S legal Department, Mic Washington 980 here in parent Application N Office USPTO	ASSIGNOR hereby authorepresentatives, of the Larosoft Corporation, One MS2 (ASSIGNEE'S LEGAL REPROPESSES (filed on $\frac{4-3-1}{1000}$) filing date, and Office, whe	w and Corporate Affairs icrosoft Way, Redmond, IESENTATIVES), to insert
	and was given by the following Offic ;	
successors and assigns ("ASS entire and exclusive rights, t INVENTION and the APPLICA	IGNEE"), is entitled to, and litle and interest, includin TION (and all other appl papplications, in whole or	n, on behalf of itself and its is desirous of acquiring, the g the right of priority, in the ications and patents derived in part, in and for the United TON DERIVATIVES");
	the Application No., filin	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application No.		
, (pp.) (MALLO) (1904	1 0038304 X05212	NOTE Option
•		

Page 1 of 2

MS Docket No.: 340994.01

PATENT ASSIGNMENT

	,
	}
	ξ
	,
	ž

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).

Richard HARPER

Printed Name in English

Date

1. AM 2014 ate RICHARD HIR HORPKE

MS Docket No.: 340994.01

(if other than English)

I <u>James William SCOTT</u> ("inventor of subject matter (application entitled " <u>EVOLVINC</u>) which:	"INVENTION") disclosed	•
ASSIGNEE'S legal of Department, Micro Washington 9805. here in parenth Application No Office USPTO	ASSIGNOR hereby auth representatives, of the Lavosoft Corporation, One Mig (ASSIGNEE'S LEGAL REPReses (filed on $4-3-14$). $14/244,850$	v and Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert and given by the following) this APPLICATION's
was filed on	and was given	Application
	by the following Office ;	è
Microsoft Corporation, a successors and assigns ("ASSIC entire and exclusive rights, till INVENTION and the APPLICAT therefrom, such as continuing States, its territories, and all for	INEE"), is entitled to, and de and interest, including ION (and all other appl applications, in whole or	the right of priority, in the ications and patents derived in part, in and for the United
ASSIGNOR hereby	authorizes, and requ	iests, ASSIGNEE'S LEGAI
REPRESENTATIVES to insert the	· ·	-
following table for any APPLICA		
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).

SSAF	31 March 2014	
Inventor's Signature	Date	
James Williams SCOTT		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

RECORDED: 02/98/2019