503628294 12/29/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3674924

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KRISHNA KUMAR PARTHASARATHY	12/18/2015
WAYNE MERL CRANSTON	12/18/2015
WILLIAM JAMES WHALEN	12/15/2015
NEELAMADHABA MAHAPATRO	12/16/2015
PIYUSH GUPTA	12/18/2015
FAINA SIGALOV	12/15/2015
SALIL KAPOOR	12/15/2015
JONATHAN STURGEON	12/16/2015

RECEIVING PARTY DATA

Name:	me: 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:	14978414

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	MS1-6388US
NAME OF SUBMITTER:	CYNTHIA M. CONWAY
SIGNATURE:	/Cynthia M. Conway/

503628294 PATENT REEL: 037376 FRAME: 0241

DATE SIGNED:	12/29/2015
Total Attachments: 16	
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PATENT REEL: 037376 FRAME: 0242

PATENT ASSIGNMENT		MS Docket No.:	***************************************
		Attorney Docket No.:	***************************************
	Krishna Kumar Parihasarathy	("ASSIGNOR") an	n the original inventor
•	il joint inventor of subject mat ilication entitled	ter ("INVENTION") disclo	sed and/or claimed in
	ENHANCED ACKNOWLE	DGMENT FOR MESSAGES	Š
("APPLICATIO	ON"), which:		
	will be filed. ASSIGNOR ASSIGNEE'S legal representa LLC., One Microsoft Way, Red LEGAL REPRESENTATIVES), ton <u>December 22, 2015</u> and githe following Office <u>US – Unit</u> this APPLICATION's Applicat known;	tive, Microsoft Techno imond, Washington 980 to insert here in part ven Application No. <u>14</u> ed States Patent and Tra	logy Licensing, 52 (ASSIGNEE'S entheses (filed ./978,414 by udemark Office)
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was filed on _____ and was given Application by the following Office <u>US – United States</u> Patent and Trademark Office:

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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Attorney Docket No.: MS1-6388US

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"));

Thishalmya_ Inventor's Signature	12) 18/2015 Date
Krishna Kumar Parthasarathy	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT		MS Docket No.: Attorney Docket No.:		
~	Wayne Meri Cranston Il joint inventor of subject mati lication entitled ENHANCED ACKNOWLE		sed and/or claimed in	
("APPLICATIO	on"), which: will be filed. ASSIGNOR ASSIGNEE'S legal representa LLC., One Microsoft Way, Red LEGAL REPRESENTATIVES), ton December 22, 2015 and githe following Office US – Unite this APPLICATION's Application	tive, Microsoft Techno mond, Washington 980 to insert here in par ven Application No. <u>14</u> ed States Patent and Tra	logy Licensing, 52 (ASSIGNEE'S entheses (filed <u>/978.414</u> by <u>idemark Office</u>)	
	was filed on	and was given Applicati	ion	

No ______ by the following Office US - United States Patent and Trademark Office: 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"));

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Attorney Docket No.: MS1-6388US

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***************************************	WW	12/18/15
· · · · · · · · · · · · · · · · · · ·	Inventor's Signature	Date
·····	Wayne Merl Cranston	
***************************************	Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT		MS Doci	cet No.:	358742.01
		Attorney Dock	cet No.:	MS1- 6388US
	William James V	Vhalen ("ASSIGI	VOR") ar	n the original inventor
or an original j a patent applic	ioint inventor of su cation entitled	ibject matter ("INVENTION	l") disclo	osed and/or claimed in
		ACKNOWLEDGMENT FOR MI	ESSAGE:	S
("APPLICATION	i"), which:			
£ 1. 0 1	NSSIGNEE'S legal r LC., One Microsof EGAL REPRESENT. on December 22, 20 he following Office	ASSIGNOR hereby authorepresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here 115 and given Application to US - United States Patents Application No., filing	Techno ton 980 in par No. <u>14</u> t and Tra	logy Licensing, 052 (ASSIGNEE'S entheses (filed 0./978,414 by ademark Office)
1		and was given ago by the following Office ark Office;		
behalf of itself of acquiring, t priority, in the derived therefi	and its successors the entire and exc INVENTION and the rom, such as cont	ensing, LLC, a Washingtor and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all c inuing applications, in wi all foreign countries ("AP	i, is entii iterest, other ap hole or	tled to, and is desirous including the right of plications and patents in part, in and for the
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	Application No., fi DERIVATIVES after	ling date, and Office int they are known:	o the fo	ollowing table for any
Application N	}	Filing Date	Office	

Attorney Docket No.: MS1-6388US

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

Inventor's Signature

William James Whalen

Printed Name in English

Printed Name in Native Language

(if other than English)

PATENT ASSIGNMENT	MS Docket N	No.: <u>358742.01</u>
	Attorney Docket N	No.: MS1-6388US
or an original joint inventor of su a patent application entitled	ahapatro ("ASSIGNOR ibject matter ("INVENTION") di ACKNOWLEDGMENT FOR MESSI	isclosed and/or claimed in
("APPLICATION"), which:		
ASSIGNEE'S legal in LLC., One Microsof LEGAL REPRESENT on December 22, 20 the following Office	ASSIGNOR hereby authorize representative, Microsoft Tect Way, Redmond, Washington ATIVES), to insert here in 15 and given Application Note US – United States Patent and States Patent Paten	thnology Licensing, 98052 (ASSIGNEE'S parentheses (filed . <u>14/978,414</u> by d Trademark Office)
☐ was filed on	and was given App	lication
No Patent and Tradem	by the following Office <u>US</u> <u>ark Office</u> :	- United States
Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and ex- priority, in the INVENTION and t derived therefrom, such as cont United States, its territories, and	clusive rights, title and intere he APPLICATION (and all othe inuing applications, in whole	entitled to, and is desirous est, including the right of r applications and patents or in part, in and for the
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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")):

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Acher 1	12-16-2015
Inventor's Signature	Date
Neelamadhaba Mahapatro	
Printed Name in English	Printed Name in Native Language (if other than English)

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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Attorney Docket No.: MS1-6388US

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Rigush Grifts	12/18/15
Inventor's Signature	Date
Piyush Gupta	
Printed Name in English	Printed Name in Native Language
	(if other than English)

United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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Application No.	Filing Date	Office	

PATENT ASSIC	INMENT	· · · · · · · · · · · · · · · · · · ·	MS Docket No	.: 358742.01
			ney Docket No	.: MS1- 6388US

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Dian	12/15/15
Inventor's Signature	Date
Faina Sigalov	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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Attorney Docket No.: MS1-6388US

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Mi	12/16/2015
Inventor's Signature	Date
Salii Kapoor	
Printed Name in English	Printed Name in Native Language
	(if other than English)

APPLICATION DERIVATIVES after they are known;

Application No. Filing Date Office

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MS Docket No.: 358742.01

Attorney Docket No.: MS1-6388US

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J. Share	12/16/205
Inventor's Signature	Date
Jonathan Sturgeon	
Printed Name in English	Printed Name in Native Language (if other than English)