### 11/07/2018 505180313

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5227081

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ALEX KIPMAN	10/14/2016
PURNIMA M. RAO	02/07/2017
REBECCA HARUYAMA	10/21/2016
SHIH-SANG CARNAVEN CHIU	10/21/2016
STUART MAYHEW	10/14/2016
OSCAR E. MURILLO	10/16/2016
CARLOS FERNANDO FARIA COSTA	02/07/2017

### **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:	15331746

### **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: 4257079382

Email: usdocket@microsoft.com MICROSOFT CORPORATION **Correspondent Name:** 

ONE MICROSOFT WAY Address Line 1:

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	359237.02 (WHG16304U)
NAME OF SUBMITTER:	HEIDI LAUMAN
SIGNATURE:	/HEIDI LAUMAN/
DATE SIGNED:	11/07/2018

**PATENT** REEL: 047440 FRAME: 0804 505180313

# Total Attachments: 14 source=359237.02 (WHG16304U) Executed Assignments#page1.tif source=359237.02 (WHG16304U) Executed Assignments#page2.tif source=359237.02 (WHG16304U) Executed Assignments#page3.tif source=359237.02 (WHG16304U) Executed Assignments#page4.tif source=359237.02 (WHG16304U) Executed Assignments#page5.tif source=359237.02 (WHG16304U) Executed Assignments#page6.tif source=359237.02 (WHG16304U) Executed Assignments#page7.tif source=359237.02 (WHG16304U) Executed Assignments#page8.tif source=359237.02 (WHG16304U) Executed Assignments#page9.tif source=359237.02 (WHG16304U) Executed Assignments#page10.tif source=359237.02 (WHG16304U) Executed Assignments#page11.tif source=359237.02 (WHG16304U) Executed Assignments#page12.tif source=359237.02 (WHG16304U) Executed Assignments#page13.tif source=359237.02 (WHG16304U) Executed Assignments#page13.tif source=359237.02 (WHG16304U) Executed Assignments#page14.tif

PATENT REEL: 047440 FRAME: 0805 PATENT ASSIGNMENT

MS Docket No.:

WHG16304U

I <u>Alex Kipman</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>REALITY MIXER FOR MIXED REALITY</u>" ("APPLICATION"), which:

$\times$	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	reques	its,
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	on C	Octo	ber 21, 2	2016 and giv	ven Appli	cation No. $\frac{1}{2}$	5/331,	746	by
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	was	filed	on	6	and was (	given Applica	tion		
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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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WHG16304U

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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Mal	10-14-2016
Inventor's Signature	Date
Alex Kipman	AMPORTANDA (AND AND AND AND AND AND AND AND AND AND
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT ASSIGNME	ENT M	S Docket No.:	WHG16304U
inventor of	nima M. Rao ("ASSIGNOR") subject matter ("INVENTION ntitled " <u>REALITY MIXER FOR</u>	ON") disclose	d and/or claim	ned in a patent
	will be filed. ASSIGNO ASSIGNEE'S legal represent LLC, One Microsoft Way, Relegal REPRESENTATIVES) on and the following OfficeAPPLICATION's Application	itative, Micros edmond, Wash , to insert h given Applica	soft Technology nington 98052 (A tere in parenth ation No.	Licensing, ASSIGNEE'S eses (filedby) this
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behalf of itse of acquiring priority, in t derived ther	soft Technology Licensing, elf and its successors and as the entire and exclusive he INVENTION and the APPL refrom, such as continuing s, its territories, and all fore	signs ("ASSIGN rights, title ar ICATION (and applications, i	NEE"), is entitled to not interest, inclu all other applica in whole or in pa	to, and is desirous uding the right of ations and patents art, in and for the
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Application No. Filing Date Office

WHG16304U\_

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"));

Part of the second of the seco	teb 7, 2017
Inventor's Signature	Date
Purnima M. Rao	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PA	ATENT ASSIGNMENT	MS Do	ocket No.:	WHG16304U
inventor of subject	ruyama ("ASSIGNOR") am matter ("INVENTION") REALITY MIXER FOR MIXE	disclosed a	nd/or claim	ed in a patent
ASSIGN LLC, Or LEGAL on Oct the fo APPLIC.  was file	e filed. ASSIGNOR has been seen that iver the meters of th	e, Microsoft ond, Washingt insert here on Application filing date, ard was given A	Technology on 98052 (A in parenthe No. 15/331, and Office, who	Licensing, SSIGNEE'S ses (filed 746 by) this
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Application No.	Filing Date		Office	

Page 1 of 2

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

Rebecca Haruyama

Printed Name in English

Printed Name in Native Language

Oct 21,2016

(if other than English)

PATENT ASS	IGNMENT	MS Docket No.:	WHG16304U
I <u>Shih-Sang Carnaven Chi</u> joint inventor of subject matter application entitled " <u>REALITY MIX</u>	("INVENTION") di	sclosed and/or cla	aimed in a patent
will be filed. A  ASSIGNEE'S legal re LLC, One Microsoft LEGAL REPRESENTA on October 21, 201 the following Of APPLICATION's App	epresentative, Mic Way, Redmond, W ATIVES), to insert 6 and given App fice	rosoft Technology ashington 98052 ( here in parenth lication No. 15/33	Licensing, (ASSIGNEE'S neses (filed 1,746 by this
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Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and exc priority, in the INVENTION and the derived therefrom, such as cont United States, its territories, and	and assigns ("ASS clusive rights, title ne APPLICATION (a inuing application	IGNEE"), is entitled and interest, incl nd all other applic s, in whole or in p	to, and is desirous uding the right o ations and patents art, in and for the
ASSIGNOR hereby authorize to insert the Application No., final APPLICATION DERIVATIVES after	ling date, and Of they are known;	fice into the follow	
Application No.	Filing Date	Office	

WHG16304U

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

Shih-Sang Carnaven Chiu

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

WHG16304U

I <u>Stuart Mayhew</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>REALITY MIXER FOR MIXED REALITY</u>" ("APPLICATION"), which:

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Application No.	Filing Date	Office	

## PATENT ASSIGNMENT

MS Docket No.:

WHG16304U

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"));

Recoverable Signature	
x 5. Mayhew	
stuart mayhew	
Signed by: Stuart Mayhew	10/14/2016
Inventor's Signature	Date
Stuart Mayhew	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT ASS	IGNMENT	MS Do	ocket No.:	WHG16304U	
inventor of	ar E. Murillo ("ASSIO subject matter ("I entitled " <u>REALITY MIX</u>	NVENTION") disclo	osed a	nd/or claim	ed in a patent	
	will be filed.  ASSIGNEE'S legal r  LLC, One Microsoft  LEGAL REPRESENT  on October 21, 20  the following Of  APPLICATION'S App	Way, Redmond, WATIVES), to insert  16 and given Appl  Flice	rosoft ashingt here ication	Technology I on 98052 (A in parenthe No. 15/331,	Licensing, SSIGNEE'S ses (filed 746 by Line by Line by	
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Microsoft Technology Licensing, LLC, a Washington limited liability company, or 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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Page 1 of 2

WHG16304U

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/			
	10/16/2016		
Inventor's Signature	Date		
Oscar E. Murillo			
Printed Name in English	Printed Name in Native Language (if other than English)		

	PATENT AS	SSIGNMENT	MS Docket No.:	WHG16304U
joint invento	or of subject mati	ter ("INVENTION") d	am the original inver isclosed and/or cla <u>ALITY</u> " ("APPLICATIO	imed in a patent
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Inventor's Signature	02/07/17 Date
Carlos Fernando Faria Costa	
Printed Name in English	Printed Name in Native Language
	(if other than English)