503967239 08/18/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4013894

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KIKI WOLFKILL	06/02/2016
CESARE JOHN SARETTO	06/03/2016
DANIEL J. CHOSICH	06/08/2016
TONY HAU	06/02/2016
ADAM S. CALLENS	05/25/2016
SANDRA JOLLY LEMON	06/17/2016
DUNCAN JAMES MCKAY	05/31/2016
JESSE PAUL ROBERTS	05/31/2016
MICHAEL RAYMOND GERHARDT	05/26/2016

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:	14788262

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: mlnguyen@shb.com

Correspondent Name: SHOOK, HARDY & BACON L.L.P.

Address Line 1: 2555 GRAND BLVD.

Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER: 355742.01/MFCP.216554	
NAME OF SUBMITTER:	GEORGE-LEONARD N. NGENGWE
SIGNATURE:	/GEORGE-LEONARD N. NGENGWE/

PATENT REEL: 039479 FRAME: 0288

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DATE SIGNED:	08/18/2016	
Total Attachments: 18		
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PATENT REEL: 039479 FRAME: 0289

PATENT ASSIGNMENT

I, <u>Kiki</u>	<u>Wolfkill</u> ("ASSIGNOI	R"), am the ori	ginal invento	or or an original	joint inventor
of subject n	natter ("INVENTION	4") disclosed	and/or claim	med in a pater	nt application
entitled "LA	YERED INTERACT	TIVE VIDEO	PLATFORM	FOR INTERAC	TIVE VIDEO
EXPERIENCES	" ("APPLICATION"),	which:			
	will be filed.	ASSIGNOR I	nereby auth	norizes and re	aquests
	ASSIGNEE'S legal i	representative	s, of Shook,	Hardy & Bacon	L.L.P.,
	2555 Grand Blv	d., Kansas	City, Misso	uri 64108, wi	no are
	associated with	Customer Nu	mber 4580	9 (ASSIGNEE'S	LEGAL
	REPRESENTATIVES				
	on			•	lication
	No	by the fo			
	Patent and Trader	-	_		
	filing date, and Of	fice, when kno	own;		
\boxtimes	was filed on <u>June</u> :	<u>30, 2015</u> and	was given Ap	oplication	
	No <u>14/788,262</u>	by the follo	wing Office	"United States Pa	atent
	and Trademark Of		•		95
Micro:	soft Technology Lic	ensing, LLC, a	. Washingtor	n limited liability	company, or
behalf of its	self and its succes	ssors and ass	igns ("ASSIC	GNEE"), is entitl	ed to, and is
desirous of	acquiring, the entir	re and exclusi	ve rights, til	tle and interest,	including the
right of prior	rity, in the INVENTI	ON and the AF	PLICATION (and all other ap	plications and
patents deriv	ved therefrom, suc	h as continuin	g application	ns, in whole or i	in part, in and
for the Un	ited States, its t	erritories, an	d all forei	gn countries ("APPLICATION
DERIVATIVES	"));				
ASSIG	NOR hereby	authorizes,	and requ	iests, ASSIGN	EE'S LEGAI
REPRESENTA	TIVES to insert th	he Application	n No., filin	g date, and O	ffice into the
following tab	ole for any APPLICA	TION DERIVAT	IVES after th	iey are known;	
Application I	No.	Filing Date		Office	

Page 1 of 2

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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).

Ihventor's Signature

| Kiki Wolfkill | Printed Name in English | Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

miventor of subject matter	invention") disclosed Interactive video pla	ginal inventor or an original joint d and/or claimed in a patent TFORM FOR INTERACTIVE VIDEO		
ASSIGNEE'S legal 2555 Grand Eleasociated with REPRESENTATIVE on No. Patent and Trad	ll representatives, of Shoo Blvd., Kansas City, Mis I Customer Number 45 ES), to insert here and	uthorizes and requests ok, Hardy & Bacon L.L.P., souri 64108, who are 809 (ASSIGNEE'S LEGAL in parentheses (filed given Application ffice US – United States 'ATION's Application No.,		
was filed on <u>June 30, 2015</u> and was given Application No <u>14/788,262</u> by the following Office " <u>United States Patent</u> and Trademark Office";				
desirous of acquiring, the ent right of priority, in the INVENT patents derived therefrom, suc	essors and assigns ("ASS) ire and exclusive rights, I ION and the APPLICATION is continuing application.	on limited liability company, on IGNEE"), is entitled to, and is title and interest, including the land all other applications and ons, in whole or in part, in and eign countries ("APPLICATION"		
ASSIGNOR hereby REPRESENTATIVES to insert t following table for any APPLICA	he Application No., filir	uests, ASSIGNEE'S LEGAL ng date, and Office into the hey 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).

Inventor's Signature

Cesare John Saretto

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

PATENT ASSIGNMENT

I, <u>Daniel J. Chosich</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>LAYERED INTERACTIVE VIDEO PLATFORM FOR INTERACTIVE VIDEO EXPERIENCES</u> " ("APPLICATION"), which:			
	2555 Grand Blv associated with REPRESENTATIVES on No. Patent and Trader	ASSIGNOR hereby autorepresentatives, of Shook vd., Kansas City, Misson Customer Number 4580), to insert here in and the following Office, when known;	Hardy & Bacon L.L.P., buri 64108, who are 09 (ASSIGNEE'S LEGAL 1 parentheses (filed 2 given Application 2 ce US – United States
		30, 2015 and was given A by the following Office ffice";	
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 N	<u> </u>	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"));

	06/8/2016	
Inventor's Signature	Date	
Daniel J. Chosich	DAN Choside	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT

of subject m	natter ("INVENTION	") disclosed and/or clai	r or an original joint inventor med in a patent application FOR INTERACTIVE VIDEO
EXPERIENCES'	' ("APPLICATION"), v	which:	
	ASSIGNEE'S legal re 2555 Grand Blvc associated with CREPRESENTATIVES) on	ASSIGNOR hereby authepresentatives, of Shook d., Kansas City, Misso Customer Number 4580, to insert here in and by the following Office, when known;	Hardy & Bacon L.L.P., uri 64108, who are 9 (ASSIGNEE'S LEGAL parentheses (filed given Application ce US – United States
		10, 2015 and was given A by the following Office fice";	· ·
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"));			
REPRESENTA	TIVES to insert th	•	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application N	}	Filing Date	Office

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Page 1 of 2

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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"));

<u> Au</u>	4.2.2014	
Inventor's Signature	Date	
Tony Hau		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT

I, <u>Ada</u>	<u>m S. Callens</u> ("ASS	IGNOR"), am the original	inventor or an original joint
inventor of	subject matter ("	"INVENTION") disclosed a	and/or claimed in a patent
application e	ntitled " <u>LAYERED I</u> I	<u>NTERACTIVE VIDEO PLATFO</u>	<u>ORM FOR INTERACTIVE VIDEO</u>
EXPERIENCES	" ("APPLICATION"),	which:	
	will be filed.	ASSIGNOR hereby auth	orizes and requests
	ASSIGNEE'S legal	representatives, of Shook,	Hardy & Bacon L.L.P.,
	2555 Grand Blv	d., Kansas City, Misso	uri 64108, who are
	associated with	Customer Number 4580	9 (ASSIGNEE'S LEGAL
	REPRESENTATIVES), to insert here in	parentheses (filed
	on	and	given Application
	No	by the following Offic	ce <u>US – United States</u>
	Patent and Trader	<u>nark Office</u>) this APPLICAT	TION's Application No.,
	filing date, and Of	fice, when known;	
\boxtimes	was filed on <u>June</u>	<u>30, 2015</u> and was given Ap	oplication
	No <u>14/788,262</u>	by the following Office	<u>"United States Patent</u>
	and Trademark Of	<u>fice</u> ";	
behalf of its desirous of a right of prior patents deriv	self and its succestacquiring, the entirely, in the INVENTING therefrom, successed the States, its to	ssors and assigns ("ASSIC re and exclusive rights, til ON and the APPLICATION (h as continuing application	n limited liability company, or INEE"), is entitled to, and is the and interest, including the land all other applications and in whole or in part, in and gn countries ("APPLICATION
ASSIG	NOR hereby	authorizes, and requ	iests, ASSIGNEE'S LEGAI
REPRESENTA	TIVES to insert tl	ne Application No., filing	g date, and Office into the
following tab	ole for any APPLICA	TION DERIVATIVES after th	iey are known;
Application 1	Vo.	Filing Date	Office
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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"));

<i>j</i>	***************************************	333 oc	
[[la-2]. [][_	nor.	5/25/16	
Inventor's Signature		Date	
Adam S. Callens	3	Adam S. Callens	
Printed Name in English		Printed Name in Native Language	
- We		(if other than English)	

PATENT ASSIGNMENT

inventor of application e	subject matter ("	INVENTION") disclosed a ITERACTIVE VIDEO PLATFO	l inventor or an original joint and/or claimed in a patent ORM FOR INTERACTIVE VIDEO
	ASSIGNEE'S legal r 2555 Grand Blvd associated with (REPRESENTATIVES) on No	and by the following Officenark Office	Hardy & Bacon L.L.P., uri 64108, who are 19 (ASSIGNEE'S LEGAL 1 parentheses (filed 2 given Application 1 given Line States
		30, 2015 and was given Ap by the following Office fice";	
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"));			
REPRESENTA	TIVES to insert th	authorizes, and requ ne Application No., filing TION DERIVATIVES after th	g date, and Office into the
Application		Filing Date	Office
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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"));

Inventor's Signature Sandra Jolly Lemon	<u>0/17/2016</u> Date
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

joint inventor of subject mat	ter ("NVENTION") dis INTERACTIVE VIDEO I	he original inventor or an original closed and or claimed in a patent PLATFORM FOR INTERACTIVE VIOEO
ASSIGNEE'S legal 2555 Grand 6 associated with REPRESENTATIV on	I representatives, of blvd., Kansas City I Customer Number ES), to insert he and by the followin lemark Office) this Af Office, when known: 18 30, 2015 and was of the following.	Vauthorizes and requests Shook, Hardy & Bacon LLP. Missouri 64108, who are 45809 (ASSIGNEE'S LEGAL ore in parentheses (filed digiven Application org Office <u>US - United States</u> PLICATION's Application No. given Application Office <u>United States</u> Price <u>United States</u>
Microsoft Technology behalf of itself and its suc desirous of acquiring, the end of the priority, in the INVEN patents derived therefrom, so for the United States, its DERIVATIVES"));	Licensing, LLC, a Was cessors and assigns ntire and exclusive ri iTION and the APPLIC uch as continuing ap iterritories, and a authorizes, and	shington limited liability company, on ("ASSIGNEE"), is entitled to, and is ghts, title and interest, including the ATION (and all other applications and iplications, in whole or in part, in and ill foreign countries ("APPLICATION") requests. ASSIGNEE'S LEGAL
REPRESENTATIVES to insert following table for any APPL		o., filing date, and Office into the Safter they are known
Application No.	Filing Date	Office

Page 1 of 2

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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).

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Maria

Duncan James McKay

Printed Name in English

Printed Name in Native Language

(if other than English)

PATENT ASSIGNMENT

I, <u>Jesse Paul Roberts</u> ("As inventor of subject matter ("application entitled " <u>LAYERED II</u> <u>EXPERIENCES</u> " ("APPLICATION"),	"INVENTION") disclosed a NTERACTIVE VIDEO PLATFO	
ASSIGNEE'S legal 2555 Grand Blv associated with REPRESENTATIVES on No. Patent and Trade	**	Hardy & Bacon L.L.P., uri 64108, who are 9 (ASSIGNEE'S LEGAL parentheses (filed given Application ce <u>US – United States</u>
	30, 2015 and was given Ap by the following Office f ffice";	
Microsoft Technology Lie behalf of itself and its succes desirous of acquiring, the enti- right of priority, in the INVENTI patents derived therefrom, suc- for the United States, its to DERIVATIVES"));	ssors and assigns ("ASSIC re and exclusive rights, tit ON and the APPLICATION (h as continuing application	tle and interest, including the and all other applications and ns, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA	ne Application No., filing	uests, ASSIGNEE'S LEGAL g date, and Office into the nev are known:
Application No.	Filing Date	Office

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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"));

A. F.	6/31/2016
Inventor's Signature	Date
Jesse Paul Roberts	
Printed Name in English	Printed Name in Native Language (if other than English)

# PATENT ASSIGNMENT

I, <u>Michael Raymond Gerhardt</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>LAYERED INTERACTIVE VIDEO PLATFORM FOR INTERACTIVE VIDEO EXPERIENCES</u> " ("APPLICATION"), which:			
will be filed. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, of Shook, Hardy & Bacon L.L.P., 2555 Grand Blvd., Kansas City, Missouri 64108, who are associated with Customer Number 45809 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application No by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;			
	•	given Application g Office " <u>United States Patent</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).

Inventor's Signature	26 May 2016 Date
Michael Raymond Gerhardt Printed Name in English	Printed Name in Native Language
_	(if other than English)

**RECORDED: 08/18/2016**