PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3944212

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JÜRI REITEL	04/22/2015
MARTIN ELLIS	04/22/2015
ANDREI BIRJUKOV	09/29/2015
ZHICHENG MIAO	04/22/2015
RYAN S. MENEZES	05/11/2015

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:	14602237	

CORRESPONDENCE DATA

Fax Number: (509)755-7252

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: 509-755-7262

Email: usdocket@microsoft.com

WOLFE-SBMC **Correspondent Name:** Address Line 1: 601 W MAIN AVE **SUITE 1300** Address Line 2:

SPOKANE, WASHINGTON 99201 Address Line 4:

ATTORNEY DOCKET NUMBER:	357149.01
NAME OF SUBMITTER:	ALLAN T. SPONSELLER
SIGNATURE: /Allan T. Sponseller, Reg. #38,318/	
DATE SIGNED:	06/30/2016
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Total Attachments: 10

PATENT REEL: 039058 FRAME: 0289

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PATENT REEL: 039058 FRAME: 0290

	PATENT A	SSIGNMENT I	MS Docket No.:	357149.01
subject matt	er ("INVENTION") dis	am the original inventor of sclosed and/or claimed in onization" ("APPLICATION"	a patent applicat	
	ASSIGNEE'S legal r LLC., One Microsoft LEGAL REPRESENT on the following Office APPLICATION's App	ASSIGNOR hereby autho epresentative, Microsoft tway, Redmond, Washingt ATIVES), to insert here and given Application e blication No., filing date, are 121, 2015 and was given following Office "US";	Technology Licenton 98052 (ASSIGNATION OF THE PROPERTY OF T	nsing, NEE'S (filed by) this
behalf of itse of acquiring priority, in the derived ther United States	elf and its successors, the entire and exc he invention and the invention and the efrom, such as cont s, its territories, and	ensing, LLC, a Washington and assigns ("ASSIGNEE"), clusive rights, title and in the APPLICATION (and all of inuing applications, in whall foreign countries ("API	is entitled to, and terest, including ther applications tole or in part, in PLICATION DERIVA	d is desirous the right of and patents and for the ATIVES"));
to insert the		zes, and requests, ASSIGN iling date, and Office into		
Application		Filing Date	Office	
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Page 1 of 2

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PATENT REEL: 039058 FRAME: 0291

MS Docket No.: 357149.01

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).

Dital	2015-04-22	
Inventor's Signature	Date	
Jüri Reitel	JURI REITEL	
Printed Name in English	Printed Name in Native Language (if other than English)	

REEL: 039058 FRAME: 0292

PATENT ASSIGNMENT MS Docket No.: 357149.01

I <u>Martin Ellis</u> ("ASSIGNOR") subject matter ("INVENTION") dis " <u>Shared Scene Mesh Data Synchr</u>	sclosed and/or claimed in	• • •
will be filed.	ASSIGNOR hereby autho	orizes, and requests,
LLC., One Microsof LEGAL REPRESENT on the following Offic	epresentative, Microsoft of tway, Redmond, Washingth ATIVES), to insert here and given Application to the control of the contr	ton 98052 (ASSIGNEE'S in parentheses (filed Noby) this
🛛 was filed on lanuar	<u>y 21, 2015</u> and was given	Application No
	following Office " <u>US</u> ";	, , , , , , , , , , , , , , , , , , ,
behalf of itself and its successors of acquiring, the entire and exception priority, in the INVENTION and the derived therefrom, such as contunited States, its territories, and	and assigns ("ASSIGNEE"), clusive rights, title and in ne APPLICATION (and all o inuing applications, in wh	terest, including the right of ther applications and patents iole or in part, in and for the
ASSIGNOR hereby authoric	zes, and requests, ASSIGN	EE'S LEGAL REPRESENTATIVES
to insert the Application No., fi	•	the following table for any
APPLICATION DERIVATIVES after Application No.	They are known; Filing Date	Office
Apprication No.	ining back	Onice

MS Docket No.: 357149.01

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).

Marker Elis	2015 - 04 - 22
Inventor's Signature	Date
Martin Ellis	×
Printed Name in English	Printed Name In Native Language
	(if other than English)

MS Docket No.: 357149.01

I Andrei Bir	<u>jukov</u> ("ASSIGN(DR") am thi	e original in	ventor or an	original joint
inventor of subje	ct matter (INV	ENTION") (disclosed an	d/or claimed	in a patent
application entitled	Shared Scene !	viesh Data S	ynchronizati	on" ("APPLICA"	ΠΟΝ"), which:

will be filed.	ASSIGNOR	hereby au	thorizes, a	nd requests.
ASSIGNEE'S le	gal representa	tive, Microso	ft Technolo	gy Licensing,
LLC., One Micr	osoft Way, Red	mond, Washi	ngton 9805	2 (ASSIGNEE'S
LEGAL REPRES	ENTATIVES),	to insert he	re in parer	itheses (filed
on	and g	iven Applicati	on No	by
the following	Office) this
APPLICATION'S	Application N	o., filing date	, and Office,	when known;

was filed on <u>January 21, 2015</u> and was given Application No 14/602,237 by the following Office "US":

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	

Page 1 of 2

PATENT REEL: 039058 FRAME: 0295

MS Docket No.: 357149.01

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).

and the same of th	29 systember 2015		
Inventor's Signature	Date		
Andrei širjukov	Андеси Бирноков		
Printed Name in English	Printed Name in Native Language (if other than English)		

MS Docket No.: 357149.01

I ZhiCheng Miao ("ASSIGNOR") am the original inventor or an original joint inventor
of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled
"Shared Scene Mesh Data Synchronization" ("APPLICATION"), which:

	will be filed. ASSIGNOR hereby authorizes, and requests,				
	ASSIGNEE'S legal representative, Microsoft Technology Licensing,				
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S				
	LEGAL REPRESENTATIVES), to insert here in parentheses (filed				
	on and given Application No by				
	the following Office				
	APPLICATION's Application No., filing date, and Office, when known;				
\boxtimes	was filed on January 21, 2015 and was given Application No				
	14/602,237 by the following Office "US";				

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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Page 1 of 2

PATENT

REEL: 039058 FRAME: 0297

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).

(M)	2015-04-22
Inventor's Signature	Date
ZhiCheng Miao	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 357149.01

inventor of	subject matter ('	'INVENTION") discl	riginal inventor or ar osed and/or claimed <u>ironization</u> " ("APPLICA	d in a patent
	ASSIGNEE'S legal LLC., One Microsol LEGAL REPRESENT on the following Office	representative, Mic ft Way, Redmond, W "ATIVES), to insen and given App te	authorizes, and recrosoft Technology Li /ashington 98052 (ASS t here in parenthese lication No date, and Office, when	censing, SIGNEE'S es (filed by) this
⊠		ry 21, 2015 and wa e following Office "J	s given Application No JS";)
behalf of itse of acquiring priority, in the derived there	If and its successor the entire and ex ne INVENTION and t efrom, such as con	s and assigns ("ASS clusive rights, title he APPLICATION (a tinuing applications	hington limited liabilit iGNEE"), is entitled to, and interest, includir nd all other applicatio s, in whole or in part, es ("APPLICATION DER	and is desirous ng the right of ns and patents in and for the
to insert the	Application No., f	iling date, and Off	ASSIGNEE'S LEGAL REF	; table for any
Application	No.	Filing Date	Office	

Page 1 of 2

MS Docket No.: 357149.01

MS Docket No.: 357149.01

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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).

Inventor's Signature

Date

Ryan S. Menezes

Printed Name in English

Printed Name in Native Language

(if other than English)