502575246 11/19/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2621167

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date	
XIANG CAO	11/02/2013	
TAKAAKI SHIRATORI	11/13/2013	
XIN TONG	11/19/2013	
FENG XU	11/01/2013	
THOMAS GERSTEN	11/01/2013	
TOMMER LEYVAND	11/12/2013	

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:	14084481

CORRESPONDENCE DATA

Fax Number: (425)936-7329 425-707-9382 Phone:

Email: vffiling@microsoft.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: **ASSAL MEFTAHI** Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPT Address Line 4: **REDMOND, WASHINGTON 98052**

ATTORNEY DOCKET NUMBER: 339829.01

PATENT

REEL: 031634 FRAME: 0978

502575246

NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
Signature:	/Vladimir A. Kozyrev/
Date:	11/19/2013
Total Attachments: 12 source=339829.01 Executed Assignments#	page2.tif page3.tif page4.tif page5.tif page5.tif page6.tif page6.tif page7.tif page8.tif page9.tif page9.tif page11.tif

PATENT REEL: 031634 FRAME: 0979

I Xiang Cao ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MOTION CONTROL OF A VIRTUAL ENVIRONMENT" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on November 19, 2013 and given Application No. 14/084,481 by the following Office) this APPLICATION's Application No., filing date, and Office, when known;
\square was filed on and was given Application
No by the following Office "";
successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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 in the INVENTION and the APPLICATION (and 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).

Cur Many.	2 Nov 2013
Inventor's Signature	Date
_Xiang Cao	曹翔
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 339829.01

application ("APPLICATION	subject matter entitled "MO ON"), which: will be filed. ASSIGNEE'S lega Department, Mic Washington 980 here in parent Application No.,	("INVENTION") am the original ("INVENTION") disclose the control of the crosoft Corporation, On the crosoft Corpor	ed and/or clain A VIRTUAL authorizes, and Law and Corpor e Microsoft Way, EPRESENTATIVES mber 19, 2013 y the followin this APPL when known;	requests, requests, rate Affairs Redmond,), to insert and given lig Office ICATION's		
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Page 1 of 2

MS Docket No.: 339829.01

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

All Di	Nov. 13, 20/3	
Inventor's Signature	Date	
Takaaki Shiratori	白鳥貴亮	
Printed Name in English	Printed Name in Native Language (if other than English)	

PATENT ASSIGNMENT MS Docket No.: 339829.01

subject matter ("INVENTION") dis "MOTION CONTROL OF A VIRTUA will be filed.	sclosed and/or claimed in	CATION"), which: rizes, and requests,
Washington 98052 here in parentheses	soft Corporation, One Mic (ASSIGNEE'S LEGAL REPRE s (filed on November 19, 2013	SENTATIVES), to insert and given Application
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	and was given A by the following Office ";	pplication
Microsoft Corporation, a successors and assigns ("ASSIGN entire and exclusive rights, title (and all other applications and applications, in and for the Un ("APPLICATION DERIVATIVES"));	NEE"), is entitled to, and e and interest in the INVE and patents derived ther	NTION and the APPLICATION efrom, such as continuing
ASSIGNOR hereby authorized insert the Application No., fit APPLICATION DERIVATIVES after	ling date, and Office into	EE'S LEGAL REPRESENTATIVES the following table for any
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 in the INVENTION and the APPLICATION (and 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	
Xin Tong	童欣
Printed Name in English	Printed Name in Native Language (if other than English)

I Feng Xu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MOTION CONTROL OF A VIRTUAL ENVIRONMENT" ("APPLICATION"), which:

MS Docket No.: 339829.01

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Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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	

MS Docket No.: 339829.01

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES):

Feng XIX	Nov. 1st , 2013
Inventor's Signature	Date
Feng Xu	徐枫
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Tho</u>	<u>mas Ger</u> sten ("A	SSIGNOR") am the	original inven	tor or an original joint
inventor of	subject matter	("INVENTION") disc	closed and/o	r claimed in a patent
application	entitled "MO	TION CONTROL	OF A VIR	TUAL ENVIRONMENT"
("APPLICATIO	DN"), which:		, , , , , , , , , , , , , , , , , , ,	TOAL LIVIROINIVIENT
\boxtimes	will be filed.	ASSIGNOR hereb	v authorizes	and requests
	ASSIGNEE'S lega	l representatives, of	the law and	Composer Affect
	Department, Mic	crosoft Corporation,	One Microsof	t Way Bodmand
	Washington 980	52 (ASSIGNEE'S LEG	AL REPRESENT	ATIVES) to insert
	here in parent	heses (filed on N	ovember 19, 2	2013 and given
	Application No	0. 14/084,481	by the f	ollowing Office
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	Application No.,	filing date, and Office		/n:
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	was filed on	and was	given Applica	ition No
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		". ————————————————————————————————————		
Micros	oft Corporation,	a Washington Corp	oration, on b	ehalf of itself and its
successors ai	nd assigns ("ASSI	GNEE"), is entitled t	o, and is des	irous of acquiring the
entire and ex	clusive rights, til	tle and interest in t	he INVENTION	and the APPLICATION
(and all oth	er applications	and patents derive	ed therefrom	. such as continuing
applications,	in and for the	United States, its t	erritories, and	I all foreign countries
("APPLICATIOI	N DERIVATIVES"));			
ACCICN				
ASSIGN	OR hereby	authorizes, and	requests,	ASSIGNEE'S LEGAL
REPRESENTAT	IVES to insert t	he Application No.	, filing date,	and Office into the
Application No	e for any APPLICA	TION DERIVATIVES		(nown;
Application No) .	Filing Date	Office	

Page 1 of 2

PATENT REEL: 031634 FRAME: 0988

MS Docket No.: 339829.01

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Inventor's Signature	1\ / 1 / 13 Date
Thomas Gersten	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 339829.01

l Tommer Le	eyvand ("ASSIGNOR")	am the origin	al inventor or	an original joint
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("APPLICATION"), wh			en da garia	
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Microsoft Co	rporation, a Washin	gton Corporati	on, on behalf	of itself and its
successors and ass	igns ("ASSIGNEE"), is	entitled to, ar	nd is desirous	of acquiring, the
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Page 1 of 2

MS Docket No.: 339829.01

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES):

Ta	(1/12/2013
Inventor's Signature	Date
Tommer Leyvand	TJZ79 7KLY
Printed Name in English	Printed Name in Native Language (if other than English)