#### 504077126 11/01/2016

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
MICHAEL D. MCGRATH	10/13/2016
TOMMASO CHECCHI	10/21/2016
SOREN HANNIBAL NIELSEN	11/01/2016
ROBERT POERSCHKE	10/20/2016

## **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:	15335295

## **CORRESPONDENCE DATA**

Fax Number: (503)595-5301

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CORY A. JONES, KLARQUIST SPARKMAN, LLP **Correspondent Name:** 

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Address Line 2: ONE WORLD TRADE CENTER Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER:	3382-97262-02
NAME OF SUBMITTER:	CORY A. JONES
SIGNATURE:	/Cory A. Jones/
DATE SIGNED:	11/01/2016

## **Total Attachments: 8**

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I, Michael D. McGrath ("ASSIGNOR"), am the original inventor or an original joint nventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ROLL TURNING AND TAP TURNING FOR VIRTUAL REALITY ENVIRONMENTS" ("APPLICATION"), which:			
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on October 26, 201 and given Application No. 15/335,295 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;			
	_ and was given Application at the control of the c	on No by the following k 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	

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).

Michael D. McGrath Inventor's Signature	October 13, 2016  Date
Michael D. McGrath Printed Name in English	Printed Name in Native Language (if other than English)

I, Tommaso Checchi ("ASS inventor of subject matter ("INVI application entitled "ROLL TURN ENVIRONMENTS" ("APPLICATION	ENTION") disclosed and/or ING AND TAP TURNING FO		
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on October 26, 20 and given Application No. 15/335,295 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;			
	was filed on and was given Application No by the following Office "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"));  ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES			
to insert the Application No., fili			
Application No.	Filing Date	Office	

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litigation regarding letters patent derived therefrom, and for the purpose of protecting ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

10-27-2076	Date	Printed Name in Native Language (if other than English)
Emal	Inventor's Signature	Tommaso Checchi Printed Name in English

I, Soren Hannibal Nielsen joint inventor of subject matter application entitled "ROLL TURN ENVIRONMENTS" ("APPLICATION	("INVENTION") disclo		
legal represents Microsoft Way, REPRESENTATIV and given Appl United States P	atives, of Microsoft T Redmond, Washingto /ES) to insert here in ication No. <u>15/335,29</u> 5	norizes, and requests, ASSIGNEE'S Fechnology Licensing, LLC, One on 98052 (ASSIGNEE'S LEGAL parentheses (filed on October 26, 25 by the following Office: k Office) this APPLICATION's fice, when known;	: <u>0</u> 16
	the following Office	was given Application No.  "United States Patent and	
behalf of itself and its successor desirous of acquiring, the entir right of priority, in the INVENT	ors and assigns ("ASS e and exclusive righ ION and the APPLICA h as continuing appl	ts, title and interest, including the TION (and all other applications a lications, in whole or in part,in and	e .nd
	iling date, and Office	ASSIGNEE'S LEGAL REPRESENTATING into the following table for any	∕ES
Application No.	Filing Date	Office	

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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

Soren Hannibal Nielsen

Printed Name in English

Printed Name in Native Language (if other than English)

I, Robert Poerschke ("ASS inventor of subject matter ("INV application entitled "ROLL TURN ENVIRONMENTS" ("APPLICATION	ENTION") disclosed and/or ING AND TAP TURNING FO		
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on October 26, 2010 and given Application No. 15/335,295 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;			
	and was given Applicati tates Patent and Trademar	on No by the following k Office";	
Microsoft Technology Lic behalf of itself and its successor desirous of acquiring, the entire right of priority, in the INVENTION patents derived therefrom, such for the United States, its territor DERIVATIVES"));	rs and assigns ("ASSIGNEE' and exclusive rights, title DN and the APPLICATION (i as continuing application	and interest, including the and all other applications and s, in whole or in part,in and	
ASSIGNOR hereby author to insert the Application No., fil APPLICATION DERIVATIVES after	ing date, and Office into th	IEE'S LEGAL REPRESENTATIVES ne following table for any	
Application No. Filing Date Office			
	<u> </u>		

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N/Pr	10-20-16
Inventor's Signature	Date
Robert Poerschke	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT REEL: 040191 FRAME: 0048

**RECORDED: 11/01/2016**