

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4972217

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHANE H HILTON	05/18/2018
MICHAEL GRODIN	05/21/2018
JEFFREY CURTIS SCHLIMMER	05/22/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSOFT TECHNOLOGY LICENSING, LLC
<b>Street Address:</b>	ONE MICROSOFT WAY
<b>City:</b>	REDMOND
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15986009
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)318-2583
<i>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.</i>	
<b>Phone:</b>	202-842-8800
<b>Email:</b>	usdoCKET@microsoft.com, dcpatentfiling@dbr.com
<b>Correspondent Name:</b>	DRINKER BIDDLE & REATH/MICROSOFT
<b>Address Line 1:</b>	1500 K STREET, N.W.
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005-1209
<b>ATTORNEY DOCKET NUMBER:</b>	215786-0143-00-US-575214
<b>NAME OF SUBMITTER:</b>	MAYA YUSIM
<b>SIGNATURE:</b>	/Maya Yusim #73,563/
<b>DATE SIGNED:</b>	05/22/2018
<b>Total Attachments: 6</b>	
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PATENT ASSIGNMENT

MS Docket No.: 404093-US-NP

I Shane H HILTON ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPROVED SPECTATING SIMULATION" ("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 May 22, 2018 \_\_\_\_\_ and given Application No. 15/986,009 by the following Office US - 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 " \_\_\_\_\_";

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,

PATENT ASSIGNMENT

MS Docket No.: 404093-US-NP

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	5-18-2018 _____ Date
Shane H HILTON _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 404093-US-NP

I Michael GRODIN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPROVED SPECTATING SIMULATION" ("APPLICATION"), which:

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 _____ Inventor's Signature	<u>5/21/2018</u> _____ Date
<u>Michael GRODIN</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Jeffrey Curtis SCHLIMMER ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPROVED SPECTATING SIMULATION" ("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 May 22, 2018 \_\_\_\_\_ and given Application No. 15/986,009 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

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<u>Jeffrey C. Schlimmer</u>	<u>22 May 2018</u>
Inventor's Signature	Date
<u>Jeffrey Curtis SCHLIMMER</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)