

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4564122

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TRACY K ARD	05/31/2016
GABRIEL TAKACS	05/31/2016
DAVID M. GEDYE	05/31/2016
JAMES FLETCHER	05/30/2016
MATTHEW SAMMIS ASHMAN	05/31/2016
<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:	15169045
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)328-1707
<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>Email:</b>	reller@wnlaw.com, usdocket@microsoft.com
<b>Correspondent Name:</b>	RICK D. NYDEGGER
<b>Address Line 1:</b>	60 EAST SOUTH TEMPLE #1000
<b>Address Line 4:</b>	SALT LAKE CITY, UTAH 84111
<b>ATTORNEY DOCKET NUMBER:</b>	20844.13
<b>NAME OF SUBMITTER:</b>	RICK D. NYDEGGER
<b>SIGNATURE:</b>	/Rick D. Nydegger/
<b>DATE SIGNED:</b>	08/24/2017
<b>Total Attachments: 10</b>	
source=20884-13_2017-08-24_Combined-Assignments1#page1.tif	
source=20884-13_2017-08-24_Combined-Assignments1#page2.tif	

source=20884-13\_2017-08-24\_Combined-Assignments1#page3.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page4.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page5.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page6.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page7.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page8.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page9.tif  
source=20884-13\_2017-08-24\_Combined-Assignments1#page10.tif




PATENT ASSIGNMENT

Attorney Docket No.: 20844.13 (359755.01)

--	--	--

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).

 _____ Inventor's Signature	<u>5/31/2016</u> _____ Date
<u>Tracy K. Ard</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)




PATENT ASSIGNMENT

Attorney Docket No.: 20844.13 (359755.01)


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).

 _____ Inventor's Signature	<u>31 May 2016</u> _____ Date
<u>Gabriel Takacs</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)




PATENT ASSIGNMENT

Attorney Docket No.: 20844.13 (359755.01)

--	--	--

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).

 Inventor's Signature	<u>5/31/16</u> Date
<u>David M. Gedy</u> Printed Name in English	 Printed Name in Native Language (if other than English)



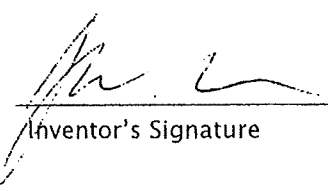


PATENT ASSIGNMENT

Attorney Docket No.: 20844.13 (359755.01)


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).

	<u>5/30/16</u>
Inventor's Signature	Date
<u>James Fletcher</u>	
Printed Name in English	Printed Name in Native Language (if other than English)




PATENT ASSIGNMENT

Attorney Docket No.: 20844.13 (359755.01)


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).

 Inventor's Signature	<u>5/31/2016</u> Date
<u>Matthew Sammis Ashman</u> Printed Name in English	 Printed Name in Native Language (if other than English)