

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RYAN EUGENE WHITAKER	12/10/2019
CARL J. LEDBETTER	01/23/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSOFT CORPORATION
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<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>
<b>Application Number:</b>	29716465
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	013797.13992\US
<b>NAME OF SUBMITTER:</b>	STEVE S. CHANG
<b>SIGNATURE:</b>	/Steve Chang/
<b>DATE SIGNED:</b>	05/08/2020
<b>Total Attachments: 2</b>	
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source=13992 - Executed Assignments#page2.tif	

**PATENT ASSIGNMENT**

I, Ryan Eugene WHITAKER ('ASSIGNOR') am the original inventor or an original joint inventor of subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'CONTROLLER' ('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 12/10/2019 and given Application No. 29/716465 by the following Office U.S. Patent & Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;
- was filed on , and was given U.S. Serial No. by the U.S. Patent and Trademark Office

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, 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, the 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).

  
\_\_\_\_\_  
Ryan Eugene WHITAKER

12-10-2019  
\_\_\_\_\_  
Date

RYAN WHITAKER  
\_\_\_\_\_  
Printed Name in English

\_\_\_\_\_  
Printed Name in Native Language (non-English)

**PATENT ASSIGNMENT**

I, Carl J. LEDBETTER ('ASSIGNOR') am the original inventor or an original joint inventor of subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'CONTROLLER' ('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 12/10/2019 and given Application No. 29/716465 by the following Office U.S. Patent & Trademark Office ) this APPLICATION's Application No., filing date, and Office, when known;
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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).

  
 \_\_\_\_\_  
 Carl J. LEDBETTER

January 23, 2020  
 \_\_\_\_\_  
 Date

Carl J Ledbetter  
 \_\_\_\_\_  
 Printed Name in English

\_\_\_\_\_   
 Printed Name in Native Language (non-English)