

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRISTOPHER MICHAEL FORRESTER	04/05/2019
OMAR JOYA	04/05/2019
BRADLEY ROBERT EKIN	04/05/2019
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:	16841606
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Phone:	314-302-1451
Email:	docket@bjfip.com
Correspondent Name:	BARTA, JONES & FOLEY, P.C. (PATENT GROUP)
Address Line 1:	3308 PRESTON ROAD
Address Line 2:	#350-161
Address Line 4:	PLANO, TEXAS 75093
ATTORNEY DOCKET NUMBER:	406103-US-CNT
NAME OF SUBMITTER:	HOLLI L. TEMPLETON
SIGNATURE:	/Holli L. Templeton/
DATE SIGNED:	04/06/2020
Total Attachments: 6	
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PATENT ASSIGNMENT

MS Docket No.: 406103-US-NP

I Christopher Michael FORRESTER ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " DYNAMIC DEVICE SPEAKER TUNING FOR ECHO CONTROL" ("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 and given Application No. _____ 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 April 4, 2019 and was given Application No. 16/375,794 by the following Office "US - 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., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

Application No.	Filing Date	Office
16/841,606	April 6, 2020	United States Patent & Trademark

PATENT ASSIGNMENT

MS Docket No.: 406103-US-NP

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>Christopher Michael Forrester</u>	<u>April 5, 2019</u>
Inventor's Signature	Date
<u>Christopher Michael FORRESTER</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 406103-US-NP

I Omar IOYA ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " **DYNAMIC DEVICE SPEAKER TUNING FOR ECHO CONTROL**" ("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 and given Application No. _____ 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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	04/05/2019
Inventor's Signature	Date
Omar JOYA	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 406103-US-NP

I Bradley Robert EKIN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " DYNAMIC DEVICE SPEAKER TUNING FOR ECHO CONTROL" ("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 and given Application No. _____ 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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	4/5/19
Inventor's Signature	Date
Bradley Robert EKIN	
Printed Name in English	Printed Name in Native Language (if other than English)