504375350 05/19/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY	DATA			
		Name Exe	cution Date	
JAN RAKEN		05/09	9/2017	
RACHAEL BELL		05/07	7/2017	
RICHARD DEAN HAP	RLEY JR.	05/10)/2017	
JAMES ALEC ISHIHA	RA	05/10)/2017	
KATE BAILEY		05/10)/2017	
RECEIVING PARTY I	ΟΑΤΑ			
Name:	MICRO	MICROSOFT CORPORATION		
Street Address:		ONE MICROSOFT WAY		
City:	REDM	REDMOND		
State/Country:	WASH	WASHINGTON		
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Postal Code:	98052			
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Total Attachments: 5

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I, Jan Raken ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'KEYBOARD' ('APPLICATION'), which:

- [X] will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Serial No_29/604234__, filed 5/16/2017_) this APPLICATION's U.S. Serial Number and filing date, when known;
- was filed on , and was given U.S. Serial No.

_____ is filed concurrently herewith;

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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ('APPLICATION DERIVATIVES'));

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 entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and 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 APPLICAT ON DERIVATIVES).

Jan Raken

I, Rachael Bell ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'KEYBOARD' ('APPLICATION'), which:

> X will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Serial No 29/604234 , filed 5/16/2017) this APPLICATION'S U.S. Serial Number and filing date, when known:

is filed concurrently herewith:

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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ('APPLICATION DERIVATIVES'));

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 entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and 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).

5/7/2017 DATE Røbell :

PATENT REEL: 042433 FRAME: 0477

was filed on , and was given U.S. Serial No.

I, Richard Dean Harley ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'KEYBOARD' ('APPLICATION'), which:

- IX will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Serial No<u>29/604234</u>, filed <u>5/16/2017</u>) this APPLICATION's U.S. Serial Number and filing date, when known;
 - was filed on , and was given U.S. Serial No.

is filed concurrently herewith;

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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ('APPLICATION DERIVATIVES'));

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 entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and 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).

C **Harley**

I, James Alec Ishihara ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'KEYBOARD' ('APPLICATION'), which:

Will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Serial No_29/604234_, filed 5/16/2017_) this APPLICATION's U.S. Serial Number and filing date, when known;

is filed concurrently herewith;

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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ('APPLICATION DERIVATIVES'));

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 entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and 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).

5/10/17

DATE

4. Alee 75

James Alec Ishihara

PATENT REEL: 042433 FRAME: 0479

was filed on , and was given U.S. Serial No.

 Kate Bakey (ASSIGNOR), have invented subject matter (INVENTION) disclosed and/or claimed in a patent application entitled 'KEYBOARD' (APPLICATION), which:

> will be field without this executed PATENT ASSIGNMENT ASSIGNOR heraby authorizes and requests ASSIGNEE'S legal representatives, of Banner & Witcoff, LTD, 1100-13th Street NW, Suite 1200, Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Senal No. 29/604234, field <u>5/16/2017</u>) the APPLICATION's U.S. Senal Number and fling date, when known;

was filed on , and was given U.S. Senal No.

is fied concurrently herewith:

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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries (APPLICATION DERIVATIVES')).

For good and valuable consideration, the receipt of which is hereby advantedged by the ASSIONOR, the ASSIONOR hereby sets, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest is the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES).

ASSIGNOR agrees to execute as instruments and documents required for the making and protection of the APPLICATION and APPLICATION CERIVATIVES. So Signation regarding letters patent derived thereform and for the purpose of protecting and perfecting life to the APPLICATION and APPLICATION DERIVATIVES.

Kato Bailev

PATENT REEL: 042433 FRAME: 0480

RECORDED: 05/19/2017