# 504221921 02/10/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4268598

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
MONIQUE CHATTERJEE			03/02/2016
RICHARD T. HANKS			03/03/2016
WILLIAM BENNETT MABRY			03/03/2016
AUSTIN PORTER			03/03/2016
RECEIVING PARTY DA	ТА		
Name:	MICROSOFT CORPORATION		
Street Address:	ONE MICROSOFT WAY		
City:	REDMOND		
State/Country:	WASHINGTON		
Postal Code:	98052		
Property Type		Number	
Property Type Application Number:	2	<b>Number</b> 29557563	
Application Number:			
Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i>	ATA ( e sent to	29557563	
Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone:	ATA ( e sent to provided; (	29557563 202)824-3001 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 202) 824-3000	t via US Mail.
Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email:	ATA ( e sent to provided; ( b	29557563 202)824-3001 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 202) 824-3000 pwptopat@bannerwitcoff.com, msigur@	t via US Mail.
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Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	ATA ( e sent to provided; ( to E 1 S	29557563 202)824-3001 <i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 202) 824-3000 wptopat@bannerwitcoff.com, msigur@ 3ANNER & WITCOFF, LTD. 100 13TH ST. NW STE 1200 WASHINGTON, D.C. 20005	t via US Mail.
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	ATA ( e sent to provided; ( to E 1 S	29557563 202)824-3001 the e-mail address first; if that is uns if that is unsuccessful, it will be sen 202) 824-3000 wptopat@bannerwitcoff.com, msigur@ 3ANNER & WITCOFF, LTD. 100 13TH ST. NW STE 1200 VASHINGTON, D.C. 20005 013797.12815 JEFFREY H. CHANG /Jeffrey H. Chang/	t via US Mail.
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER: SIGNATURE: DATE SIGNED:	ATA ( e sent to provided; ( b 1 5 7 7 7 7 8 7 7 7 8 7 7 7 7 8 7 7 7 7 7	29557563 202)824-3001 the e-mail address first; if that is unser- if that is unsuccessful, it will be sen 202) 824-3000 wptopat@bannerwitcoff.com, msigur@ BANNER & WITCOFF, LTD. 100 13TH ST. NW STE 1200 VASHINGTON, D.C. 20005 013797.12815 JEFFREY H. CHANG /Jeffrey H. Chang/ 02/10/2017 d#page1.tif	t via US Mail.

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PATENT REEL: 041220 FRAME: 0753

I, Monique Chatterjee ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled '**CONTROLLER**' ('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 <u>29/557,563</u>, filed <u>03/10/2016</u>) this APPLICATION'S U.S. Serial Number and filing date, when known;

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



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).

MARCH 2, 20/10 MONIQUE CHATTERY

I. Richard T. Hanks ('ASSIGNOR'). have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'), which:



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).

DATE

Richard T. Hanks

I, William Bennett Mabry ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled '**CONTROLLER**' ('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 29/557,563 03/10/2016) this APPLICATION'S U.S. Serial Number and filing date, when known;



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



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).

William Bennett Mabry

I, Austin Porter ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed and/or claimed in a patent application entitled 'CONTROLLER' ('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 29/557,563 \_\_\_\_\_\_, filed 03/10/2016 \_\_\_\_\_) this APPLICATION's U.S. Serial Number and filing date, when known;
- was filed on , and was given U.S. Serial No.



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).

DATE

Austin Porter