## 504542639 09/12/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4589346

UBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ			
		Name Execution Da		
MONIQUE CHATTERJE	E	08/23/2017		
AUSTIN PORTER		09/05/2017		
RICHARD T. HANKS	08/23/2017			
WILLIAM BENNETT MA	08/23/2017			
MATTHEW HARVEY		08/24/2017		
RECEIVING PARTY DA	TA			
Name:	MICRC	MICROSOFT CORPORATION		
Street Address:	ONE M	ONE MICROSOFT WAY		
City:	REDMO	REDMOND		
State/Country:	WASH	WASHINGTON		
-				
Postal Code: PROPERTY NUMBERS	98052			
PROPERTY NUMBERS Property Type	Total: 1	Number		
PROPERTY NUMBERS	Total: 1			
PROPERTY NUMBERS Property Type	Total: 1	Number		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number:	Total: 1	Number 29614380 (202)824-3001		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b	Total: 1	Number     29614380     (202)824-3001     o the e-mail address first; if that is unsuccessful, it will be sent		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b	Total: 1 DATA pe sent to provideo	Number     29614380     (202)824-3001     o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if	DATA provided	Number     29614380     (202)824-3001     o the e-mail address first; if that is unsuccessful, it will be sent		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone:	Total: 1 DATA Pe sent to provideo	Number     29614380     (202)824-3001     o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email:	DATA provided	Number     29614380     (202)824-3001 <i>o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.</i> (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name:	DATA PATA	Number     29614380     (202)824-3001     o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com     BANNER & WITCOFF, LTD.		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1:	Total: 1	Number     29614380     (202)824-3001 <i>o</i> the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com     BANNER & WITCOFF, LTD.     1100 13TH ST. NW		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b Using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	Total: 1	Number     29614380     (202)824-3001 <i>o</i> the e-mail address first; if that is unsuccessful, it will be sent <i>d</i> ; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com     BANNER & WITCOFF, LTD.     1100 13TH ST. NW     STE 1200     WASHINGTON, D.C. 20005		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	Total: 1	Number     29614380     (202)824-3001 <i>o</i> the e-mail address first; if that is unsuccessful, it will be sent <i>d</i> ; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com     BANNER & WITCOFF, LTD.     1100 13TH ST. NW     STE 1200     WASHINGTON, D.C. 20005		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	Total: 1	Number     29614380     (202)824-3001     of the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.     (202) 824-3000     bwptopat@bannerwitcoff.com, dschied@bannerwitcoff.com     BANNER & WITCOFF, LTD.     1100 13TH ST. NW     STE 1200     WASHINGTON, D.C. 20005     013797.13494\US		

Total Attachments: 5

source=13494 - Executed Assignments#page1.tif	
source=13494 - Executed Assignments#page2.tif	
source=13494 - Executed Assignments#page3.tif	
source=13494 - Executed Assignments#page4.tif	
source=13494 - Executed Assignments#page5.tif	

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\_\_\_\_\_\_, filed \_\_\_\_\_\_) this APPLICATION's U.S. Serial Number and filing date, when known;

X was filed on 8/18/2017, and was given U.S. Serial No. 29/614380

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).

8/23/2011 Maviausi DATE

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\_\_\_\_\_\_, filed \_\_\_\_\_\_) this APPLICATION's U.S. Serial Number and filing date, when known;

X was filed on 8/18/2017, and was given U.S. Serial No. 29/614380

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).

2017-09-05

DATE

Austin Porter

I, Richard T. Hanks ('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, filed
) this APPLICATION's U.S. Serial Number and filing date, when
known;

X was filed on 8/18/2017, and was given U.S. Serial No. 29/614380

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).

08.23.17

DATE

Richard Hanks

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\_\_\_\_\_\_\_, filed \_\_\_\_\_\_\_) this APPLICATION's U.S. Serial Number and filing date, when known;

X was filed on 8/18/2017, and was given U.S. Serial No. 29/614380

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).

08/24/17

DATE

William Beitnett Mabry

Any. Ref: 013797.13494\US MS# 402684-US-DP

#### PATENT ASSIGNMENT

I, Matthew Harvey ('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\_\_\_\_\_\_, filed \_\_\_\_\_\_) this APPLICATION's U.S. Serial Number and filing date, when known;

X was filed on 8/18/2017, and was given U.S. Serial No. 29/614380

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).

Matthew Harvey

**RECORDED: 09/12/2017**