10/30/2015 503547539

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3594166

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MONIQUE CHATTERJEE	10/26/2015
AUSTIN PORTER	10/22/2015
WILLIAM BENNETT MABRY	10/22/2015
JORDAN PATRICK EVANS	10/28/2015
RICHARD T. HANKS	10/28/2015
RYAN CURTIS CLARK	08/12/2015

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29535177

CORRESPONDENCE DATA

Fax Number: (202)824-3001

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.

Phone: (202) 824-3000

rbund@bannerwitcoff.com, bwptopat@bannerwitcoff.com Email:

Correspondent Name: JEFFREY H. CHANG

BANNER & WITCOFF, LTD. Address Line 1: Address Line 2: 1100 13TH ST. NW, STE 1200 Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	013797.11574
NAME OF SUBMITTER:	JEFFREY H. CHANG
SIGNATURE:	/Jeffrey H. Chang/
DATE SIGNED:	10/30/2015

Total Attachments: 6 source=11574-assignment-executed#page1.tif source=11574-assignment-executed#page2.tif source=11574-assignment-executed#page3.tif source=11574-assignment-executed#page4.tif

source=11574-assignment-executed#page5.tif source=11574-assignment-executed#page6.tif

I, Monique disclosed and/or d	Chatterjee ('ASSIGNOR'), have invented subject matter ('INVENTION') 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. 29/535,177, filed 08-04-2015) 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;
and assigns ('AS: rights, title and int and patents deriv	Corporation, a Washington Corporation, on behalf of itself and its successors SIGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive terest in the INVENTION and the APPLICATION (and all other applications ed therefrom, such as continuing applications, in and for the United States, its foreign countries ('APPLICATION DERIVATIVES'));
For good the ASSIGNOR, the ASSIGNOR, the entire and exclusion	and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the ive rights, title and interest in the INVENTION and the APPLICATION (and
and prosecution or regarding letters	ERIVATIVES); OR agrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation patent derived therefrom, and for the purpose of protecting and perfecting title ION (and APPLICATION DERIVATIVES).
DATE 10/20/	20/5 Monique Chatterjee

	and Porter ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
_	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 $\underline{29/535,177}_{}$, filed $\underline{08-04-2015}_{}$) 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;
and assigns ('ASS rights, title and intra and patents derive territories, and all For good at the ASSIGNOR, the entire and exclusive APPLICATION DE ASSIGNO and prosecution or egarding letters p	Corporation, a Washington Corporation, on behalf of itself and its successors SIGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive erest in the INVENTION and the APPLICATION (and all other applications ed therefrom, such as continuing applications, in and for the United States, its foreign countries ('APPLICATION DERIVATIVES')); and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the we rights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES); R agrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation eatent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
10.22.20	015
DATE	Austin Rand Porter

	irtis Clark ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
, , , , , , , , , , , , , , , , , , ,	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. 29/535,177, filed 08-04-2015) 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;
and assigns ("AS: rights, title and int and patents deriv	Corporation, a Washington Corporation, on behalf of itself and its successors SIGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive erest in the INVENTION and the APPLICATION (and all other applications ed therefrom, such as continuing applications, in and for the United States, its foreign countries ('APPLICATION DERIVATIVES'));
the ASSIGNOR, t	and valuable consideration, the receipt of which is hereby acknowledged by he ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the verights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES);
	R agrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation
regarding letters (patent derived therefrom, and for the purpose of protecting and perfecting title
m nu ta tanti	ON (and APPLICATION DERIVATIVES).
10/22/	15 /////////
DATE	Ryan Curtis Clark

	s ('ASSIGNOR'), have invented subject matter ('INVENTION') patent application entitled 'CONTROLLER' ('APPLICATION'),
X will be filed ASSIGNOF representa Washingto 28319, to in	without this executed PATENT ASSIGNMENT. R hereby authorizes and requests ASSIGNEE'S legal tives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, n, DC 20005-4051, who are associated with customer number nsert here in parenthesis (U.S. Serial No $\frac{29/535,177}{}$, filed 5) this APPLICATION's U.S. Serial Number and filing date, when
was filed o	n , and was given U.S. Serial No.
is filed cond	currently herewith;
and assigns ('ASSIGNEE'), is rights, title and interest in the and patents derived therefrom territories, and all foreign court For good and valuable the ASSIGNOR, the ASSIGNOR entire and exclusive rights, titl APPLICATION DERIVATIVES ASSIGNOR agrees to and prosecution of the APPLI	execute all instruments and documents required for the making CATION (and APPLICATION DERIVATIVES), for litigation ed therefrom, and for the purpose of protecting and perfecting title
10/28/15	
DATE	Jordan Patrick Evans

	Thomas Hanks ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
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. 29/535,177 , filed 08-04-2015) 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;
and assigns ('ASS rights, title and intant and patents deriviterritories, and all For good at the ASSIGNOR, tentire and exclusi APPLICATION DIASSIGNO and prosecution or regarding letters processing to the assignment of the assig	Corporation, a Washington Corporation, on behalf of itself and its successors SIGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive terest in the INVENTION and the APPLICATION (and all other applications ed therefrom, such as continuing applications, in and for the United States, its foreign countries ('APPLICATION DERIVATIVES')); and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the ve rights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES); are agrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation patent derived therefrom, and for the purpose of protecting and perfecting title ION (and APPLICATION DERIVATIVES).
10/28/19	
DATH '	Richard Thomas Hanks

	Bennett Mabry ('ASSIGNOR'), have invented subject matter ('INVENTION') slaimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
	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 29/535,177 , filed 08-04-2015) this APPLICATION'S U.S. Serial Number and filing date, when known;
区	was filed on 08/04/2015, and was given U.S. Serial No. 29/535,177
	is filed concurrently herewith;
and assigns ('ASS rights, title and int and patents derive territories, and all For good a the ASSIGNOR, t	Corporation, a Washington Corporation, on behalf of itself and its successors SIGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive erest in the INVENTION and the APPLICATION (and all other applications ed therefrom, such as continuing applications, in and for the United States, its foreign countries ('APPLICATION DERIVATIVES')); and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the we rights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES);
ASSIGNO and prosecution or regarding letters p	R agrees to execute all instruments and documents required for the making f the APPLICATION (and APPLICATION DERIVATIVES), for litigation ratent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
C. O.	
DATE - 12-1	William Bennett Mabry

PATENT REEL: 036921 FRAME: 0872

RECORDED: 10/30/2015