503547541 10/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3594168

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	08/12/2015
JORDAN PATRICK EVANS	10/28/2015
RICHARD T. HANKS	10/28/2015
RYAN CURTIS CLARK	10/22/2015

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:	29535179

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:	013797.11575
NAME OF SUBMITTER:	JEFFREY H. CHANG
SIGNATURE:	/Jeffrey H. Chang/
DATE SIGNED:	10/30/2015

Total Attachments: 6 source=11575-assignment-executed#page1.tif source=11575-assignment-executed#page2.tif source=11575-assignment-executed#page3.tif

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I, Monique	Chatterjee ('ASSIGNOR'), have invented subject matter ('INVENTION') laimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
disclosed and/or c which:	laimed in a patent application entitled GONTNOLLER (700 L. 1970)
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_29/535,179, 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 int and patents derive	Corporation, a Washington Corporation, on behalf of itself and its successors GIGNEE'), 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'));
For good a 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
and prosecution of regarding letters (R agrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation patient derived therefrom, and for the purpose of protecting and perfecting title ION (and APPLICATION DERIVATIVES).
In Iziala ai	Montar State Chatteriee
10/20/20/	Monique Chatterjee

	d Porter ('ASSIGNOR'), have invented subject matter ('INVENTION') med in a patent application entitled 'CONTROLLER' ('APPLICATION'),
X wil AS rej Wi 28 08	Il be filed without this executed PATENT ASSIGNMENT. SSIGNOR hereby authorizes and requests ASSIGNEE'S legal presentatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, ashington, DC 20005-4051, who are associated with customer number 3319, to insert here in parenthesis (U.S. Serial No_29/535,179_, filed 3-04-2015_) this APPLICATION's U.S. Serial Number and filing date, when down;
☐ wa	as filed on , and was given U.S. Serial No.
is	filed concurrently herewith;
and assigns ('ASSIG rights, title and intere and patents derived to territories, and all fore For good and the ASSIGNOR, the entire and exclusive APPLICATION DERIASSIGNOR and prosecution of the regarding letters pate	rporation, a Washington Corporation, on behalf of itself and its successors NEE'), is entitled to, and is desirous of acquiring, the entire and exclusive est in the INVENTION and the APPLICATION (and all other applications therefrom, such as continuing applications, in and for the United States, its eign countries ('APPLICATION DERIVATIVES')); valuable consideration, the receipt of which is hereby acknowledged by ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the rights, title and interest in the INVENTION and the APPLICATION (and VATIVES); agrees to execute all instruments and documents required for the making he APPLICATION (and APPLICATION DERIVATIVES), for litigation ent derived therefrom, and for the purpose of protecting and perfecting title I (and APPLICATION DERIVATIVES).
10.22.2015	
DATE	Austin Rand Porter

	s Clark ('ASSIGNOR'), have invented subject matter ('INVENTION') imed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
	ill be filed without this executed PATENT ASSIGNMENT. SSIGNOR hereby authorizes and requests ASSIGNEE'S legal spresentatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200 /ashington, DC 20005-4051, who are associated with customer number 3319, to insert here in parenthesis (U.S. Serial No29/535,179_, filed 8-04-2015_) this APPLICATION's U.S. Serial Number and filing date, when nown;
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the ASSIGNOR, the	I valuable consideration, the receipt of which is hereby acknowledged by ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the rights, title and interest in the INVENTION and the APPLICATION (and IVATIVES);
and prosecution of ti regarding letters pat	agrees to execute all instruments and documents required for the making he APPLICATION (and APPLICATION DERIVATIVES), for litigation ent derived therefrom, and for the purpose of protecting and perfecting title I (and APPLICATION DERIVATIVES).
10/22/	ra III (II)
DATE	Ryan Curtis Clark

	Patrick Evans ('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 $\underline{29/535,179}$, filed $\underline{08-04-2015}$) this APPLICATION's U.S. Serial Number and filing date, when known;
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ASSIGNO and prosecution or regarding letters p	R 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 ON (and APPLICATION DERIVATIVES).
10/28/1	5
DATE	Jordan Patrick Evans

	Thomas Hanks ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
generation	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 $29/535,179$, filed $08-04-2015$) this APPLICATION's U.S. Serial Number and filing date, when known;
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10/28/19	5 4 66
DATE!	Richard Thomas Hanks

	Bennett Mabry ('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 $\underline{29/535,179}$, filed $\underline{08-04-2015}$) 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. 29/535,179
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and assigns ('ASS rights, title and int and patents derive territories, and all For good at the ASSIGNOR, the entire and exclusive APPLICATION DE ASSIGNO and prosecution or regarding 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 ve 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 to eatent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
8-12-	, company of the second
DATE	William Bennett Mabry

PATENT REEL: 036921 FRAME: 0882

RECORDED: 10/30/2015