503880515 06/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3927164

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MONIQUE CHATTERJEE	06/16/2016
RICHARD T. HANKS	06/16/2016
MATTHEW HARVEY	06/20/2016
AUSTIN PORTER	06/20/2016
WILLIAM BENNETT MABRY	06/20/2016

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:	29567508

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

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

Correspondent Name: BANNER & WITCOFF, LTD.

Address Line 1: 1100 13TH ST. NW

Address Line 2: STE 1200

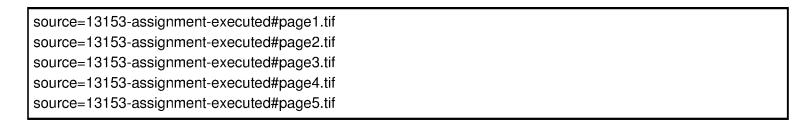
Address Line 4: WASHINGTON, D.C. 20005

Total Attachments, 5	
DATE SIGNED:	06/21/2016
SIGNATURE:	/Jeffrey H. Chang/
NAME OF SUBMITTER:	JEFFREY H. CHANG
ATTORNEY DOCKET NUMBER:	013797.13153

Total Attachments: 5

PATENT REEL: 038967 FRAME: 0478

503880515



	T. Hanks ('ASSIGNOR'), have invented subject matter ('INVENTION')
disclosed and/or on which:	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, filed) this APPLICATION's U.S. Serial Number and filing date, when known;
\boxtimes	was filed on 6/9/2016, and was given U.S. Serial No. 29/567508
	is filed concurrently herewith;
and assigns ('ASS rights, title and int and patents derive territories, and all For good a the ASSIGNOR, t entire and exclusi APPLICATION DI ASSIGNO and prosecution or	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 patent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
Colloll(co	

Richard T. Hanks

	e ('ASSIGNOR'), have invented subject matter ('INVENTION') a patent application entitled 'CONTROLLER' ('APPLICATION'),
wh i®h:	
ASSIGNO represent Washingt	ed without this executed PATENT ASSIGNMENT. DR hereby authorizes and requests ASSIGNEE'S legal tatives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200 ton, DC 20005-4051, who are associated with customer number insert here in parenthesis (U.S. Serial No, filed, this APPLICATION's U.S. Serial Number and filing date, when
X was filed	on 6/9/2016, and was given U.S. Serial No. 29/567508
is filed co	ncuπently herewith;
and assigns ('ASSIGNEE'), rights, title and interest in the and patents derived therefro	n, a Washington Corporation, on behalf of itself and its successors is entitled to, and is desirous of acquiring, the entire and exclusive e INVENTION and the APPLICATION (and all other applications om, such as continuing applications, in and for the United States, its untries ('APPLICATION DERIVATIVES'));
the ASSIGNOR, the ASSIGN	tle consideration, the receipt of which is hereby acknowledged by NOR hereby sells, assigns and transfers to the ASSIGNEE, the itle and interest in the INVENTION and the APPLICATION (and ES);
and prosecution of the APPL regarding letters patent deriv	to execute all instruments and documents required for the making LICATION (and APPLICATION DERIVATIVES), for litigation yed therefrom, and for the purpose of protecting and perfecting title APPLICATION DERIVATIVES).
	Monique Chatterjee

	Bennett Mabry ('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 , filed
) this APPLICATION's U.S. Serial Number and filing date, when
	known;
X	was filed on 6/9/2016, and was given U.S. Serial No. 29/567508
П	is filed concurrently herewith;
	is med serioditerary herewall,
Microsoft (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
	he ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the ve rights, title and interest in the INVENTION and the APPLICATION (and
APPLICATION DI	
	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
to the APPLICATI	ON (and APPLICATION DERIVATIVES).
06/20/16	/ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
DATE	William Bennett Mabry

	orter ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed 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 6/9/2016, and was given U.S. Serial No. 29/567508
	is filed concurrently herewith;
and assigns ('ASS rights, title and int and patents derive territories, and all For good at the ASSIGNOR, the title and exclusive APPLICATION DEASSIGNO and prosecution or regarding letters properties in the title and prosecution or the title and tit and title and title and title and title and title and title and	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 batent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
to the APPLICATI	ON (and APPLICATION DERIVATIVES).
6-20-2	2016
DATE	Austin Porter

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;
was filed on 6/9/2016, and was given U.S. Serial No. 29/567508
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 / Matthew Harvey

RECORDED: 06/21/2016