504015406 09/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4062063

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MONIQUE CHATTERJEE	09/20/2016
RICHARD T. HANKS	08/25/2016
WILLIAM BENNETT MABRY	08/29/2016
AUSTIN PORTER	08/22/2016

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:	29571165

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

BANNER & WITCOFF, LTD. **Correspondent Name:**

Address Line 1: 1100 13TH ST. NW

Address Line 2: STE 1200

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	013797.12818
NAME OF SUBMITTER:	JEFFREY H. CHANG
SIGNATURE:	/Jeffrey H. Chang/
DATE SIGNED:	09/21/2016

Total Attachments: 4

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> **PATENT REEL: 039817 FRAME: 0338** 504015406

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> PATENT REEL: 039817 FRAME: 0339

Atty, Ref: 013797.12818\US MS# 359546.01

PATENT ASSIGNMENT

I, Monique disclosed and/or o which:	Chatterjee ('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, filed) this APPLICATION's U.S. Serial Number and filing date, when known;
X	was filed on 7/14/2016, and was given U.S. Serial No. 29/571,165
	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 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'));
the ASSIGNOR, t	and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the verights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES);
and prosecution of 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 ION (and APPLICATION DERIVATIVES).
- 9/20/2	0/4 Mowias Margaret

PATENT ASSIGNMENT

	GNOR'), have invented subject matter ('INVENTION') disclosed blication entitled 'CONTROLLER' ('APPLICATION'), which:
will be filed ASSIGNOR representati	without this executed PATENT ASSIGNMENT. It hereby authorizes and requests ASSIGNEE'S legal lives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, n, DC 20005-4051, who are associated with customer number lesert here in parenthesis (U.S. Serial No, filed) this APPLICATION's U.S. Serial Number and filing date, when
X was filed on	7/14/2016, and was given U.S. Serial No. 29/571,165
is filed conc	currently herewith;
and assigns ('ASSIGNEE'), is rights, title and interest in the I and patents derived therefrom territories, and all foreign coun For good and valuable the ASSIGNOR, the ASSIGNO entire and exclusive rights, title APPLICATION DERIVATIVES ASSIGNOR agrees to and prosecution of the APPLICATION of the APPLICATION.	execute all instruments and documents required for the making CATION (and APPLICATION DERIVATIVES), for litigation d therefrom, and for the purpose of protecting and perfecting title
08/22/2016	A
DATE	Austin Porter

PATENT REEL: 039817 FRAME: 0341

PATENT ASSIGNMENT

	T. Hanks ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'CONTROLLER' ('APPLICATION'),
which:	manned in a patent approach of mineral work in the manner of the manner
	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;
図	was filed on 7/14/2016, and was given U.S. Serial No. 29/571,165
9	is filed concurrently herewith;
and assigns ('ASS rights, title and int and patents derive territories, and all	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, t	he ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the ve rights, title and interest in the INVENTION and the APPLICATION (and
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 patent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
8/25//	6 MA
DATE /	Richard T. Hanks

PATENT ASSIGNMENT

	Bennett Mabry ('ASSIGNOR'), have invented subject matter ('INVENTION')
disclosed and/or of	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;
	KIIOWII,
\boxtimes	was filed on 7/14/2016, and was given U.S. Serial No. 29/571,165
	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 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 ve 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 of the APPLICATION (and APPLICATION DERIVATIVES), for litigation patent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
08/20	110
DATE	William Bennett Mabry

PATENT REEL: 039817 FRAME: 0343

RECORDED: 09/21/2016