10/26/2016 504068009

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4114675

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRYAN A. SPARKS	05/17/2016
NICOLAS DENHEZ	05/18/2016
YEONGKYU YOO	05/18/2016
ANDREW KIM	05/18/2016
YOUNG DUK SONG	05/17/2016
GREGORY G. JONES	05/12/2016
CARL J. LEDBETTER	05/13/2016

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:	29564511

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, lwilley@bannerwitcoff.com

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

1100 13TH ST. NW Address Line 1:

Address Line 2: STE 1200

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	013797.13105
NAME OF SUBMITTER:	STEVE S. CHANG
SIGNATURE:	/Steve Chang/
DATE SIGNED:	10/26/2016

Total Attachments: 7 source=13105-assignment-executed#page1.tif source=13105-assignment-executed#page2.tif source=13105-assignment-executed#page3.tif source=13105-assignment-executed#page4.tif source=13105-assignment-executed#page5.tif source=13105-assignment-executed#page6.tif source=13105-assignment-executed#page7.tif

	Sparks ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'ELECTRONIC HOUSING' which:
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 $\underline{29/564.511}$, filed $\underline{5/13/2016}$) 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 into and patents derive territories, and all For good a the ASSIGNOR, the	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
APPLICATION DE	ERIVATIVES);
and prosecution o regarding letters p	R agrees to execute all instruments and documents required for the making f the APPLICATION (and APPLICATION DERIVATIVES), for litigation eatent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
05/17/2016	Buylon
DATE	Bryan A. Sparks

and/or clair which:	colas Dennez ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed ned in a patent application entitled 'ELECTRONIC HOUSING' ('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. 29/564.511, filed 5/13/16) 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;
* **	

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).

May 18th 2016

and/or claimed in	yu Yoo ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed a patent application entitled 'ELECTRONIC HOUSING' ('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 29/564,511 , filed 5/13/16) 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 ('ASt rights, title and int and patents deriv territories, and all For good a the ASSIGNOR, t entire and exclusi APPLICATION DI ASSIGNO and prosecution of 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 at 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 verights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES); Ragrees to execute all instruments and documents required for the making of the APPLICATION (and APPLICATION DERIVATIVES), for litigation statent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
101	5d (911 c -
DATE 7/07/	YeongKyu Yoo

I, Andrew and/or claimed in which:	Kim ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed a patent application entitled 'ELECTRONIC HOUSING' ('APPLICATION'),
gonnong	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 120t Washington, DC 20005-4051, who are associated with customer number 28319, to insert here in parenthesis (U.S. Serial No. 29/564,511, filed 5/13/16) this APPLICATION's U.S. Serial Number and filing date, when known;
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П	is filed concurrently herewith;
and assigns ('ASS rights, title and into and patents derive territories, and all For good a the ASSIGNOR, ti	Corporation, a Washington Corporation, on behalf of itself and its successors ilGNEE'), 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
APPLICATION DE	re rights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES);
and prosecution or regarding letters p	Represe to execute all instruments and documents required for the making if the APPLICATION (and APPLICATION DERIVATIVES), for litigation at a tent derived therefrom, and for the purpose of protecting and perfecting title DN (and APPLICATION DERIVATIVES).
5/18/20	<u> </u>
DATE	Andrew Kim

I, Young (disclosed and/or ('APPLICATION')	Ouk Song ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'ELECTRONIC HOUSING', 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. 29/564,511, filed 5/13/2016) this APPLICATION's U.S. Serial Number and filing date, when known;
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and assigns ('AS: rights, title and int and patents derivi territories, and all For good a	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 and 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
entire and exclusi APPLICATION DI	ve rights, title and interest in the INVENTION and the APPLICATION (and
and prosecution o regarding letters p	R agrees to execute all instruments and documents required for the making fithe APPLICATION (and APPLICATION DERIVATIVES), for litigation attent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
5/17/20	16 4/1/2
DATE	Young Duk Song

Atty. Ref: 013797.13105\US MS# 360023.01

PATENT ASSIGNMENT

I, Gregory disclosed and/or o ('APPLICATION')	G. Jones ('ASSIGNOR'), have invented subject matter ('INVENTION') laimed in a patent application entitled 'ELECTRONIC HOUSING' , 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. 29/564,511, filed 5/13/2016 _) this APPLICATION's U.S. Serial Number and filing date, when known;
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	is filed concurrently herewith;
and assigns ('AS: 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'));
the ASSIGNOR 1	and valuable clonsideration, the receipt of which is hereby acknowledged by the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the velocities to the APPLICATION (and ERIVATIVES):
ASSIGNO and prosecution of regarding letters	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).
<u>-1. 1</u> .	l. 11
5//2//6 DATE	Agregory G. Jones

	edbetter ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'ELECTRONIC HOUSING', which:
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 $\underline{29/564511}$, filed $\underline{5/13/16}$) this APPLICATION's U.S. Serial Number and filing date, when known;
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	is filed concurrently herewith;
and assigns ('ASS rights, title and int and patents derive territories, and all For good at the ASSIGNOR, tentire and exclusi 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 verights, title and interest in the INVENTION and the APPLICATION (and ERIVATIVES); Ragrees 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).
May 13, 2016	
DATE	Carl J. Ledbetter

RECORDED: 10/26/2016