### 11/08/2016 504085639

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4132307

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:	29564527

### **CORRESPONDENCE DATA**

Fax Number: (202)824-3001

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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:	013797.13111
NAME OF SUBMITTER:	STEVE S. CHANG
SIGNATURE:	/Steve Chang/
DATE SIGNED:	11/08/2016

# Total Attachments: 7 source=13111-assignment-executed#page1.tif source=13111-assignment-executed#page2.tif source=13111-assignment-executed#page3.tif source=13111-assignment-executed#page4.tif source=13111-assignment-executed#page5.tif source=13111-assignment-executed#page6.tif source=13111-assignment-executed#page7.tif

	ASSIGNOR'), have invented subject matter ('INVENTION') a patent application entitled 'ELECTRONIC HOUSING'
ASSIGNO represen Washingt 28319, to	ed without this executed PATENT ASSIGNMENT.  OR hereby authorizes and requests ASSIGNEE'S legal ratives, of Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, on, DC 20005-4051, who are associated with customer number insert here in parenthesis (U.S. Serial No 29/564,527 , filed ) this APPLICATION's U.S. Serial Number and filing date, when
was filed	on , and was given U.S. Serial No.
is filed co	ncurrently herewith;
and assigns ('ASSIGNEE'), rights, title and interest in th and patents derived therefro territories, and all foreign conformation for good and valuable the ASSIGNOR, the ASSIGNOR, the ASSIGNOR entire and exclusive rights, and APPLICATION DERIVATIVE.	,·
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).	
05/17/2016	Buf
DATE	Bryan A. Sparks

I, Nicolas and/or claimed in which:	Denhez ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed a patent application entitled 'ELECTRONIC HOUSING' ('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 No29/564,527_, 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).

Nay 18th 2016

<u>Hisələs Denhez</u>

I, YeongKi and/or claimed in which:	yu Yoo ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed a patent application entitled 'ELECTRONIC HOUSING' ('APPLICATION'),
200000001	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_29/564,527_, 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 ('ASS rights, title and inte and patents derive	Corporation, a Washington Corporation, on behalf of itself and its successors (IGNEE'), 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, to	ind valuable consideration, the receipt of which is hereby acknowledged by ne ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the re rights, title and interest in the INVENTION and the APPLICATION (and
ASSIGNO 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).
and no l	

	Kim ('ASSIGNOR'), have invented subject matter ('INVENTION') disclosed a patent application entitled 'ELECTRONIC HOUSING' ('APPLICATION'),
gooong	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. 29564.527 , 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 ('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'));
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 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 find the APPLICATION (and APPLICATION DERIVATIVES), for litigation patent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
5//8/ Ze	/4 MM

Andrew Kim

DATE

I, Young I 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_29/564,527, filed_5/13/16) this APPLICATION's U.S. Serial Number and filing date, when known;
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О	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	R agrees to execute all instruments and documents required for the making if 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).
5/17/2016	
DATE	Young Duk Song

Young Duk Song

Atty, Ref: 013797,13111\US MS# 360040.01

# PATENT ASSIGNMENT

I, Gregory G disclosed and/or cla ('APPLICATION'), v	i. Jones ('ASSIGNOR'), have invented subject matter ('INVENTION') simed in a patent application entitled 'ELECTRONIC HOUSING' which
X v A r V 2	vill 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. 29/564,527, 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.
<u> </u>	s filed concurrently herewith;
and assigns ('ASSI rights, title and inte and patents derived territories, and all from For good are the ASSIGNOR, the entire and exclusive APPLICATION DE ASSIGNOF and prosecution of regarding letters paraging letters par	orporation, a Washington Corporation, on behalf of itself and its successors IGNEE'), is entitled to, and is desirous of acquiring, the entire and exclusive rest in the INVENTION and the APPLICATION (and all other applications of therefrom, such as continuing applications, in and for the United States, its oreign countries ('APPLICATION DERIVATIVES')); and valuable consideration, the receipt of which is hereby acknowledged by a RASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the erights, title and interest in the INVENTION and the APPLICATION (and RIVATIVES); agrees to execute all instruments and documents required for the making the APPLICATION (and APPLICATION DERIVATIVES), for litigation attent derived therefrom, and for the purpose of protecting and perfecting title DN (and APPLICATION DERIVATIVES).
5/12/10	my fight
DATE	Gregory G Jones

	edbetter ('ASSIGNOR'), have invented subject matter ('INVENTION') claimed in a patent application entitled 'ELECTRONIC HOUSING' which:
	was filed on , and was given U.S. Serial No.
	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 DI 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 batent derived therefrom, and for the purpose of protecting and perfecting title ON (and APPLICATION DERIVATIVES).
May 13, 2016	
DATE	Carl J. Ledbetter

**RECORDED: 11/08/2016**