504533809 09/06/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT4580516

CONVEYING PARTY DATA

Name	Execution Date
YOUNG SOO KIM	09/27/2013
MIKE F. DEILY	09/27/2013
JAMES IMING TSAI	09/27/2013
RALF GROENE	09/30/2013
HUA WANG	09/27/2013
ANTHONY REED	09/27/2013
JAMES ALEC ISHIHARA	09/26/2013

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:	29616378

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, lsunderland@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

ATTORNEY DOCKET NUMBER:	013797.13514 JMF/LLS
NAME OF SUBMITTER:	JOHN M. FLEMING
SIGNATURE:	/John M. Fleming/
DATE SIGNED:	09/06/2017

504533809 PATENT REEL: 043494 FRAME: 0402

Total Attachments: 3 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif

PATENT REEL: 043494 FRAME: 0403

PATENT ASSIGNMENT

Anthony Reed and Ale ("INVENTION") disclo	ec James Ishihara ("ASSI	eily, James Iming Tsai, Ra IGNORS"), have invented patent application entitled ' '), which:	subject matter
	•	cuted PATENT ASSIGNM	ENT. ASSIGNORS
***************************************		est ASSIGNEE'S legal rep	
		Street NW, Suite 1200, W	•
	51, wno are associated v renthesis (U.S. Serial No	vith customer number 283	19, to insert nere in
	•	· ····································	AAAAAAAAAAAAAAAAAAAAA
		was given U.S. Serial No. h;	
		ngton Corporation, on beha tled to, and is desirous of a	
		VENTION and the APPLIC	
applications and pater	nts derived therefrom, suc	ch as continuing applicatio	ns, in and for the
		intries ("APPLICATION DE	
		ation, the receipt of which SNORS hereby sell, assigr	
		e and interest in the INVE	
	PPLICATION DERIVATI		
		all instruments and docum	
		(and APPLICATION DERI	* * · · · · · · · · · · · · · · · · · ·
The state of the s	it derived thereitorit, and (and APPLICATION DEF	for the purpose of protect RIVATIVES).	ing and beneding me
	-80 -000-000 -000	· · · · · · · · · · · · · · · · · · ·	
9/27/13	8		***************************************
DATE	accommendation of the second s	Young Soo Kim	······································
		Toung Goo Min	
9/22/13		4/19	
DATE	900 10 gr	Mike F. Delly	
DATE		Mike F. Delly '	
9/27/12		/Malindle	
		James Iming Tsai	\$0. 0. 550
DATE //		James Iming Isai	
9/150/1	- J		
	CONTRACTOR	C. Hard	
DATE		Ralf Groene	
9/11.	W	*)	g Same
1/2/1/19	· <i>L</i>		···
DATE: Same Control		Hua Wang //	# - # - :
		\mathcal{V}	
		· · · · · · · · · · · · · · · · · · ·	

PATENT REEL: 043494 FRAME: 0404

A/27/B		ry. Ref: 013797.09680 MS# 339754_01
DATE /	Anthony Reed	
DATE	Alec James Ishihara	

DATE	Anthony Reed
9/26/2013	J. Alex Hahara
DATE	Alec James Ishihara

PATENT REEL: 043494 FRAME: 0406

RECORDED: 09/06/2017