505819158 12/13/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT5865987

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ELLIOTT HSU	08/07/2019
SHEA ROBINSON	08/19/2019
YANLING HUANG	08/22/2019

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:	29686519

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, dminken@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:	013797.13746\US
NAME OF SUBMITTER:	STEVE S. CHANG
SIGNATURE:	/Steve Chang/
DATE SIGNED:	12/13/2019

Total Attachments: 3

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PATENT 505819158 REEL: 051272 FRAME: 0175

PATENT ASSIGNMENT

	sed and/or claimed i	ntor or an original joint inventor of in a patent application entitled 'CASE I'), which:	į
will be filed. ASSI	GNOR hereby auth	norizes and requests, ASSIGNEE'S	
legal representati Corporation, One LEGAL REPRES Office	ves, of the Law and Microsoft Way, Red ENTATIVES), to ins	I Corporate Affairs Department, Micro dmond, Washington 98052 (ASSIGNI sert here in parentheses (filed on tion Noby the follow	EE'S <i>i</i> ing
NAME OF THE PARTY	1019, and was given nt and Trademark C	n U.S. Serial No. 29/686519 Office	
and assigns ('ASSIGNEE'), is entitled rights, title and interest, including the (and all other applications and paten whole or in part, in and for the United ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorized	d to, and is desirous right of priority, in t ts derived therefrom d States, its territorie es, and requests, AS pplication No., filing	SSIGNEE'S LEGAL I date, and Office into the following tal	e)N
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Application No.	Filing Date	Office	
the ASSIGNOR, the ASSIGNOR her ASSIGNOR's entire and exclusive rig INVENTION and the APPLICATION such as continuing applications, in w and all foreign countries ('APPLICAT ASSIGNOR agrees to execut and prosecution of the APPLICATIO regarding letters patent derived there to the APPLICATION and APPLICAT	eby sells, assigns a ghts, title and intere (and all other applic hole or in part, in ar TON DERIVATIVES te all instruments an N (and APPLICATIO efrom, and for the pu	st, including the right of priority, in the cations and patents derived therefrom nd for the United States, its territories, 5')); and documents required for the making ON DERIVATIVES), for litigation urpose of protecting and perfecting tit), ,
Elliott Hsu Printed Name in English	——————————————————————————————————————	Name in Native Language (non-Englis	h)
rinted Name III ENGISH	rillited N	raine ili Mative Language (11011-ENGIIS	11/

PATENT REEL: 051272 FRAME: 0176

PATENT ASSIGNMENT

I, Shea ROBINSON ('ASSIGN subject matter ('INVENTION') disclos AND CHARGER FOR CONTROLLE	sed and/or claimed in a pate	
legal representative Corporation, One LEGAL REPRESE Office filing date, and Of IX was filed on 4/4/2	ves, of the Law and Corpor Microsoft Way, Redmond, ENTATIVES), to insert here and given Application No.	by the following APPLICATION's Application No.,
Microsoft Corporation, a Was and assigns ('ASSIGNEE'), is entitled rights, title and interest, including the (and all other applications and patent whole or in part, in and for the United ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorize REPRESENTATIVES to insert the Application of the Appli	d to, and is desirous of acq right of priority, in the INVE ts derived therefrom, such I States, its territories, and s, and requests, ASSIGNE pplication No., filing date, a	ENTION and the APPLICATION as continuing applications, in all foreign countries E'S LEGAL
Application No.	Filing Date	Office
For good and valuable considerable the ASSIGNOR, the ASSIGNOR here ASSIGNOR's entire and exclusive rigonial invention and the APPLICATION and all foreign countries ('APPLICATION ASSIGNOR agrees to execute and prosecution of the APPLICATION regarding letters patent derived there to the APPLICATION (and APPLICATION (and APPLICATION) Shea ROBINSON	eby sells, assigns and tranghts, title and interest, incluitand all other applications a hole or in part, in and for the ION DERIVATIVES')); e all instruments and document (and APPLICATION DEFerrom, and for the purpose of	sfers to the ASSIGNEE, the ding the right of priority, in the and patents derived therefrom, e United States, its territories, ments required for the making RIVATIVES), for litigation
Jonathan Shea Robinson Printed Name in English	 Printed Name in	Native Language (non-English)

PATENT REEL: 051272 FRAME: 0177

Yorling	HUANG	PATENT AS	SIGNMENT		
I, Amy Hild	ANG ('ASSIGNO IVENTION') discl	losed and/or o	laimed in a pate	r an original joint inventor of ent application entitled 'CASE n:	
	legal representation, Or LEGAL REPRE	atives, of the I ne Microsoft V SENTATIVES and given	Law and Corpor Vay, Redmond, S), to insert here Application No.	and requests, ASSIGNEE'S rate Affairs Department, Microso Washington 98052 (ASSIGNEE in parentheses (filed onby the following APPLICATION's Application No	'S
X	was filed on 4/4 by the U.S. Par	/2019, and watent and Trad	as given U.S. So emark Office	erial No. 29/686519	
and assigns ('ASS rights, title and inte (and all other appl whole or in part, in ('APPLICATION D ASSIGNOR	IGNEE'), is entitle rest, including the cations and pate and for the Unite ERIVATIVES')); Rereby authorizes to insert the	led to, and is one right of price of the right of the rig	desirous of acquirity, in the INVE terefrom, such a territories, and a tests, ASSIGNET o., filing date, ar	half of itself and its successors uiring, the entire and exclusive ENTION and the APPLICATION as continuing applications, in all foreign countries E'S LEGAL and Office into the following table	
Application No.		Filing Date		Office]
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Printed Name in	⊏ng⊪sn	Pr	inted Name in N	Native Language (non-English)	

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