505900753 02/05/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ELLIOTT HSU	08/07/2019
TSITSI KOLAWOLE	06/24/2019
JOSHUA P. WEIHER	01/23/2020
JONATHAN SHEA ROBINSON	01/25/2020
AARON SCHMITZ	08/21/2019
DAN THORSTENSON	05/13/2019
DUSTIN TIFFANY	10/23/2019
GABRIEL MICHAEL RASK GASSOWAY	10/15/2019

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:	29686513

CORRESPONDENCE DATA

Fax Number: (202)824-3001

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ATTORNEY DOCKET NUMBER: 013797.13744\US NAME OF SUBMITTER: STEVE S. CHANG /Steve Chang/ SIGNATURE:

DATE SIGNED:	02/05/2020
Total Attachments: 8	
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T will be	filed. ASSIGNOR hereby	authorizes and requests, ASSIGNEE'S
legal r Corpo LEGA Office	representatives, of the Law ration, One Microsoft Way L REPRESENTATIVES), and given Ap	v and Corporate Affairs Department, Microsoft y, Redmond, Washington 98052 (ASSIGNEE'S to insert here in parentheses (filed on plication No by the following) this APPLICATION's Application No.,
	led on 4/4/2019, and was e U.S. Patent and Tradem	given U.S. Serial No. 29/686513 ark Office
and assigns ('ASSIGNEE rights, title and interest, ir (and all other applications whole or in part, in and fo ('APPLICATION DERIVA ASSIGNOR hereby REPRESENTATIVES to	(2), is entitled to, and is de- noteding the right of priority and patents derived ther or the United States, its ter TIVES')); (a) authorizes, and request	filing date, and Office into the following table
Application No.	Filing Date	Office
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the ASSIGNOR, the ASS ASSIGNOR's entire and a INVENTION and the APF such as continuing applic and all foreign countries (ASSIGNOR agree and prosecution of the AF regarding letters patent d	IGNOR hereby sells, assing exclusive rights, title and in PLICATION (and all other a lations, in whole or in part, "APPLICATION DERIVATION of execute all instrumer PPLICATION (and APPLICATION)	nts and documents required for the making CATION DERIVATIVES), for litigation the purpose of protecting and perfecting title
Elliott Hsu		
Printed Name in English	n Prin	ted Name in Native Language (non-English)

I, Tsitsi KOLAWOLE ('ASSIG of subject matter ('INVENTION') disc 'CONTROLLER' ('APPLICATION'),	closed and/or claimed in a p	ntor or an original joint inventor atent application entitled
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Microsoft Corporation, a Was and assigns ('ASSIGNEE'), is entitle rights, title and interest, including the (and all other applications and pater whole or in part, in and for the United ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorize	ed to, and is desirous of acqueright of priority, in the INVEnts derived therefrom, such a distates, its territories, and a	ENTION and the APPLICATION as continuing applications, in all foreign countries
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Tsitsi KOLAWOLE	Date	
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legal representative Corporation, One N LEGAL REPRESE	es, of the Law and Corpor dicrosoft Way, Redmond, NTATIVES), to insert here and given Application No.	ate Affairs Department, Microsoft Washington 98052 (ASSIGNEE'S in parentheses (filed on by the following
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and assigns ('ASSIGNEE'), is entitled rights, title and interest, including the ri (and all other applications and patents whole or in part, in and for the United S ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorizes, REPRESENTATIVES to insert the Application and APPLICATION DERIVATIVES	ght of priority, in the INVE derived therefrom, such a States, its territories, and a and requests, ASSIGNEI blication No., filing date, and	ENTION and the APPLICATION as continuing applications, in all foreign countries E'S LEGAL
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JUSHUA P. WAMER		
Printed Name in English	Printed Name in 1	Native Language (non-English)

	tter ('INVENTION')	disclosed and/or claim	ginal inventor or an original joint ed in a patent application
will leg.	be filed. ASSIGNC al representatives, rporation, One Micr GAL REPRESENTA and	OR hereby authorizes a of the Law and Corpor osoft Way, Redmond, ATIVES), to insert here given Application No.	and requests, ASSIGNEE'S ate Affairs Department, Microsoft Washington 98052 (ASSIGNEE'S in parentheses (filed on by the following APPLICATION's Application No.,
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the ASSIGNOR, the AASSIGNOR's entire ar INVENTION and the AASUCH such as continuing appeared all foreign countries. ASSIGNOR ago and prosecution of the regarding letters patent to the APPLICATION (Jonathan Shea ROB	SSIGNOR hereby sold exclusive rights, indexclusive rights, in PPLICATION (and plications, in whole es ('APPLICATION rees to execute all APPLICATION (art derived therefrom and APPLICATION (and APPLICATION)	sells, assigns and trans title and interest, include all other applications a or in part, in and for the DERIVATIVES')); instruments and docur and APPLICATION DER , and for the purpose of DERIVATIVES). Jan 25, 2 Date	in is hereby acknowledged by sfers to the ASSIGNEE, the ding the right of priority, in the and patents derived therefrom, are United States, its territories, ments required for the making SIVATIVES), for litigation of protecting and perfecting title
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i, Aaron SCHWITZ (ASSIGNO subject matter ('INVENTION') disclose CONTROLLER' ('APPLICATION'), w	ed and/or claimed in a pate	
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Microsoft Corporation, a Wash and assigns ('ASSIGNEE'), is entitled rights, title and interest, including the responsible of the applications and patents whole or in part, in and for the United ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorizes REPRESENTATIVES to insert the Apfor any APPLICATION DERIVATIVES	to, and is desirous of acquight of priority, in the INVE derived therefrom, such a States, its territories, and a , and requests, ASSIGNET plication No., filing date, ar	tiring, the entire and exclusive NTION and the APPLICATION as continuing applications, in all foreign countries
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	legal represent Corporation, O LEGAL REPRE	atives, of the Law ne Microsoft Way, ESENTATIVES), to	and Corpora Redmond, \ insert here lication No	ote Affairs Department, Microso Washington 98052 (ASSIGNEE in parentheses (filed on by the followin APPLICATION's Application N	≅′8
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I, Dustin TIFFANY ('ASSIGi subject matter ('INVENTION') discl 'CONTROLLER' ('APPLICATION')	osed and/or claimed in a pate	or or an original joint inventor of ent application entitled
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I, Gabriel Michael Rask GAS original joint inventor of subject mat application entitled 'CONTROLLER'	ter ('INVENTION') disclosed	
will be filed. ASSIGNOR hereby authorizes and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application No by the following Office) this APPLICATION's Application No.,		
filing date, and Office, when known; was filed on 4/4/2019, and was given U.S. Serial No. 29/686513 by the U.S. Patent and Trademark Office		
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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;		
Application No.	Filing Date	Office
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 ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ('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).		
10/15/19		
Gabriel Michael Rask GASSOWA	Υ ΄ ΄	Date
Printed Name in English	Printed Name in I	Native Language (non-English)

PATENT REEL: 051726 FRAME: 0581

RECORDED: 02/05/2020