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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6047705

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY G. ESCOLIN	02/13/2020
YOUNG SOO KIM	02/19/2020
SCOTT SCHENONE	03/11/2020
PANOS COSTA PANAY	02/29/2020
RALF GROENE	02/14/2020
BYUNGKWAN MIN	02/20/2020

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:	29707907

CORRESPONDENCE DATA

Fax Number: (202)824-3001

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	013797.13982\US
NAME OF SUBMITTER:	JOHN M. FLEMING
SIGNATURE:	/John M. Fleming/
DATE SIGNED:	04/06/2020

Total Attachments: 6 source=13982 - Executed Assignments#page1.tif source=13982 - Executed Assignments#page2.tif

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I, Timothy G. ESCOLIN ('ASSIC inventor of subject matter ('INVENTION entitled 'COMPUTING DEVICE' ('APP	N') disclosed and/or claime	
will be filed. ASSIG legal representative Corporation, One Management of the Corporation	NOR hereby authorizes and es, of the Law and Corpora ficrosoft Way, Redmond, NTATIVES), to insert here and given Application No) this	
	019, and was given U.S. S and Trademark Office	Serial No. 29/707907
Microsoft Corporation, a Washi 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	to, and is desirous of acquight of priority, in the INVE derived therefrom, such a States, its territories, and a and requests, ASSIGNEE blication No., filing date, ar	niring, the entire and exclusive NTION and the APPLICATION as continuing applications, in all foreign countries
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ASSIGNOR agrees to execute and prosecution of the APPLICATION		
regarding letters patent derived therefr to the APPLICATION (and APPLICATION)	om, and for the purpose o	
Time L.	,	
Timothy G. ESCOLIN	02/13/20 Date	
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Timothy Escolin Printed Name in English	Drinted Name in N	Vativo Languago (non English)
Frinted Name in English	Frinted Name in I	Native Language (non-English)

	N') disclosed and/or claimed	inventor or an original joint inventor of in a patent application entitled
		orizes and requests, ASSIGNEE'S I Corporate Affairs Department, Microsoft
Corpora	ition, One Microsoft Way, Re REPRESENTATIVES), to ins	dmond, Washington 98052 (ASSIGNEE'S sert here in parentheses (filed on ion No by the following
Office _) this APPLICATION's Application No.,
filing da	te, and Office, when known;	
	d on 10/1/2019, and was give J.S. Patent and Trademark C	en U.S. Serial No. 29/707907 Office
and assigns ('ASSIGNEE'), rights, title and interest, inc (and all other applications a whole or in part, in and for ('APPLICATION DERIVATION ASSIGNOR hereby REPRESENTATIVES to instantional statements of the second statement of the second statements of the second stateme	is entitled to, and is desirous luding the right of priority, in t and patents derived therefron the United States, its territorie VES')); authorizes, and requests, AS	SSIGNEE'S LEGAL date, and Office into the following table
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and assigns ('ASSIGNEE'), is entitle rights, title and interest, including th (and all other applications and pate whole or in part, in and for the Unite ('APPLICATION DERIVATIVES'));	ed to, and is desirous of acque right of priority, in the INVE nts derived therefrom, such and States, its territories, and access, and requests, ASSIGNE Application No., filing date, a	ENTION and the APPLICATION as continuing applications, in all foreign countries E'S LEGAL
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Printed Name in English	Printed Name in	Native Language (non-English)

I, Raif GROENE ('ASSIGNOR') a subject matter ('INVENTION') disclosed 'COMPUTING DEVICE' ('APPLICATION	and/or claimed in a p	
will be filed. ASSIGN	OR hereby authorize:	s and requests, ASSIGNEE'S
legal representatives Corporation, One Mic LEGAL REPRESENT and Office	, of the Law and Corp crosoft Way, Redmon FATIVES), to insert he d given Application N	oorate Affairs Department, Microsoft d, Washington 98052 (ASSIGNEE'S ere in parentheses (filed on oby the following his APPLICATION's Application No.
filling date, and Office	, when known;	
was filed on 10/1/201 by the U.S. Patent a	9, and was given U.S nd Trademark Office	S. Serial No. 29/707907
and assigns ('ASSIGNEE'), is entitled to rights, title and interest, including the rigi (and all other applications and patents d whole or in part, in and for the United Statical ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorizes, a REPRESENTATIVES to insert the Applifor any APPLICATION DERIVATIVES at	, and is desirous of au ht of priority, in the IN erived therefrom, suc ates, its territories, an and requests, ASSIGN cation No., filing date	IVENTION and the APPLICATION the as continuing applications, in a land all foreign countries
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Printed Name in English	Printed Name	in Native Language (non-English)

I, Panos Costa PANAY ('ASSI inventor of subject matter ('INVENTIC entitled 'COMPUTING DEVICE' ('API	DN') disclosed and/or claime PLICATION'), which:	ed in a patent application
legal representativ Corporation, One LEGAL REPRESE Office filing date, and Of	Microsoft Way, Redmond, \ ENTATIVES), to insert here and given Application No) this fice, when known;	ate Affairs Department, Microsoft Washington 98052 (ASSIGNEE'S in parentheses (filed on by the following APPLICATION's Application No.,
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Microsoft Corporation, a Wash 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 authorized REPRESENTATIVES to insert the Application DERIVATIVES.	I to, and is desirous of acquiright of priority, in the INVE is derived therefrom, such a States, its territories, and a square, and requests, ASSIGNET oplication No., filing date, and	NTION and the APPLICATION is continuing applications, in all foreign countries E'S LEGAL
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Printed Name in English	Printed Name in	Native Language (non-English)

PATENT

REEL: 052317 FRAME: 0831

I, Byungkwan MIN ('ASSIGNOR') am subject matter ('INVENTION') disclosed and/o 'COMPUTING DEVICE' ('APPLICATION'), where the subject is a subject matter ('INVENTION') and the subject matter ('APPLICATION').	or claimed in a pate	r or an original joint inventor of int application entitled
will be filed. ASSIGNOR h	ereby authorizes a	nd requests, ASSIGNEE'S
legal representatives, of th Corporation, One Microsof LEGAL REPRESENTATIV	ie Law and Corpora ft Way, Redmond, \ /ES), to insert here	ate Affairs Department, Microsoft Washington 98052 (ASSIGNEE'S
Office) this	APPLICATION's Application No.,
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Microsoft Corporation, a Washington C and assigns ('ASSIGNEE'), is entitled to, and rights, title and interest, including the right of p (and all other applications and patents derived whole or in part, in and for the United States, ('APPLICATION DERIVATIVES')); ASSIGNOR hereby authorizes, and re	is desirous of acquoriority, in the INVE of the INVE	iring, the entire and exclusive NTION and the APPLICATION is continuing applications, in all foreign countries
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RECORDED: 04/06/2020

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