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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RODRIGO ANDRES VARAS SILVA	01/22/2018
KESAVAN SHANMUGAM	01/12/2018
CHARLES ERIC LANTZ	01/12/2018
JONATHAN PRESTON CARTER	01/20/2018
SIMON CALVERT	01/12/2018
ERICH GAMMA	01/15/2018
ANDRE WEINAND	01/12/2018

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number					
Application Number:	15879266					

CORRESPONDENCE DATA

Fax Number: (801)328-1707

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: 8015339800

Email:usdocket@microsoft.com,dso@wnlaw.comCorrespondent Name:WORKMAN NYDEGGER/MICROSOFTAddress Line 1:60 E. SOUTH TEMPLE, SUITE 1000Address Line 4:SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	13768.3416.3
NAME OF SUBMITTER:	ADRIAN J. LEE
SIGNATURE:	/Adrian J. Lee, Reg.# 42785/
DATE SIGNED:	01/27/2018

PATENT REEL: 044749 FRAME: 0606

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Total Attachments: 14 source=13768-3416-3_Assignment#page1.tif source=13768-3416-3_Assignment#page2.tif source=13768-3416-3_Assignment#page3.tif source=13768-3416-3_Assignment#page4.tif source=13768-3416-3_Assignment#page5.tif source=13768-3416-3_Assignment#page6.tif source=13768-3416-3_Assignment#page7.tif source=13768-3416-3_Assignment#page8.tif source=13768-3416-3_Assignment#page9.tif source=13768-3416-3_Assignment#page10.tif source=13768-3416-3_Assignment#page11.tif source=13768-3416-3_Assignment#page12.tif source=13768-3416-3_Assignment#page12.tif source=13768-3416-3_Assignment#page13.tif source=13768-3416-3_Assignment#page14.tif

PATENT REEL: 044749 FRAME: 0607

WN Docket No.:	13768.3416

			WN Docket No.: 13768.3416
original join	t inventor of subjection cation entitled " <u>M</u>	ect matter ("INVENTION")	the original inventor or and disclosed and/or claimed in a LLABORATION ENVIRONMENT'
	ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (filed No	ASSIGNOR hereby authorepresentative, Microsoft rosoft way, Redmond, GAL REPRESENTATIVES), don by the following Offimark Office) this APPLICA ffice, when known;	Technology Licensing, Washington 98052 to insert here in and given Application ice <u>US – United States</u> TION's Application No.,
		the following Office " <u>US – I</u>	
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti rity, in the INVENTI yed therefrom, suc ited States, its t	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
	TIVES to insert t	•	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application N		Filing Date	Office

WN Docket No.: 13768.3416

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, 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"));

-	
	1/22/2018
Inventor's Signature	Date
Rodrigo Andres Varas SILVA	
Printed Name in English	Printed Name in Native Language (if other than English)

WN Docket No.: 13768.3416 I Kesavan SHANMUGAM ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MULTI-FILE REAL-TIME COLLABORATION ENVIRONMENT" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., 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 <u>US - United States</u> Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on November 14, 2017 and was given Application No 62/585,988 by the following Office "US - United States Patent and Trademark Office"; Microsoft Technology Licensing, LLC, a Washington limited liability company, 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

WN Docket No.: 13768.3416

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, 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"));

Inventor's Signature	1/12/2018 Date
Kesavan SHANMUGAM	
Printed Name in English	Printed Name in Native Language (if other than English)

WN Docket No.:	13768.3416
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I <u>Cha</u>	<u>rles Eric L</u>	<u>ANTZ</u> ("ASSIGN	IOR") am the	original inven	tor or ar	origina	al joint
inventor of	subject i	matter ("INVEN	NTION") discl	osed and/or	claimed	in a	patent
application	entitled	"MULTI-FILE	REAL-TIME	COLLABORA	TION E	NVIRON	MENT"
("APPLICATIC	N"), which	n:					

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<u>Pate</u>	nt aı	<u>nd Tr</u>	<u>adema</u>	ark O	ffice)	thi	s AP	PLICA [*]	TION	's Appl	catio	n N	o.,
filing	g dat	e, an	d Offi	ce, w	hen k	no۱	٧n;						

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WN Docket No.: 13768.3416

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(Mathem)	1/12/2018
Inventor's Signature	Date
Charles Eric LANTZ	
Printed Name in English	Printed Name in Native Language (if other than English)

A	VN Doc	ket No	.: <u>137</u>	<u>68.341</u>	<u>6</u>
riginal	invent	tor or	an c	origina	ıl
				_	

I <u>Jonathan Preston CARTER</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>MULTI-FILE REAL-TIME COLLABORATION ENVIRONMENT</u>" ("APPLICATION"), which:

will	be	filed	i. A	SSIG	NOR	here	eby	auth	orize	s, an	d r	eque:	sts,
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filing	g dat	e, an	d Offic	e, w	hen k	nowi	n;						

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WN Docket No.: 13768.3416

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Inullino Callo	1/20/18		
Inventor's Signature	Date		
Jonathan Preston CARTER			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

WN Docket No.: <u>13768.341</u>
I <u>Simon CALVERT</u> ("ASSIGNOR") am the original inventor or an original joir
inventor of subject matter ("INVENTION") disclosed and/or claimed in a pater
application entitled "MULTI-FILE REAL-TIME COLLABORATION ENVIRONMENT
("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests,
ASSIGNEE'S legal representative, Microsoft Technology Licensing,
LLC., 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 <u>US – United States</u>
Patent and Trademark Office) this APPLICATION's Application No.,
filing date, and Office, when known;
oxtimes was filed on November 14, 2017 and was given Application No
62/585,988 by the following Office " <u>US – United States Patent</u>
and Trademark Office";
Microsoft Technology Licensing, LLC, a Washington limited liability company, o
behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and i
desirous of acquiring, the entire and exclusive rights, title and interest, including the
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patents derived therefrom, such as continuing applications, in whole or in part, in an
for the United States, its territories, and all foreign countries ("APPLICATION
DERIVATIVES"));
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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
Application No.

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WN Docket No.: 13768.3416

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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).

Inventor's Signature

Simon CALVERT

Printed Name in English

1-12-18

Date

SIMON CALVERT.

Printed Name in Native Language

(if other than English)

WN Docket No.: <u>13768.34</u>
I <u>Erich GAMMA</u> ("ASSIGNOR") am the original inventor or an original join
inventor of subject matter ("INVENTION") disclosed and/or claimed in a pater
application entitled "MULTI-FILE REAL-TIME COLLABORATION ENVIRONMENT
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62/585,988 by the following Office " <u>US – United States Patent</u>
and Trademark Office";
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Microsoft Technology Licensing, LLC, a Washington limited liability company, o
behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and independent of agraviting the angle of agraviting the agraviting the agravitance of agravita
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Inventor's Signature	1/15/2018 Date
Erich GAMMA	
Printed Name in English	Printed Name in Native Language (if other than English)

WN Docket No.: <u>13768.3416</u>

I <u>Andı</u>	ré WEINA	<u>ND</u> ("ASSIGNOI	R") am the	original inver	tor or an	original	l joint
inventor of	subject	matter ("INVEN	NTION") dis	closed and/o	r claimed	in a p	patent
application	entitled	"MULTI-FILE	REAL-TIME	COLLABOR	ATION E	<u>NVIRONI</u>	MENT"
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Inventor's Signature

André WEINAND

Printed Name in English

Date

Printed Name in Native Language

(if other than English)