506030632 04/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6077347

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JESSE MACDONALD SMITH	04/20/2020
ERIC CHARLES YOUNGSTROM	04/20/2020
JEREMY BRENT JACKSON	04/20/2020
NICHOLAS JAMES PAVLOVSKY	04/20/2020
JASON JOHN FIERST	04/20/2020
DANIEL TAYLOR ROSAS	04/20/2020
GEORGE OLIVER JOHNSTON	04/24/2020
TED TAI-YU CHEN	04/20/2020

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:	16857741

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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: 425-538-9035

Email: usdocket@microsoft.com
Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	408212-US-NP
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/VLADIMIR A. KOZYREV/

PATENT 506030632 REEL: 052489 FRAME: 0242

DATE SIGNED:	04/24/2020
Total Attachments: 16	
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page1.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page2.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page3.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page4.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page5.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page6.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page7.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page8.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page9.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page10.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page11.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page12.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page13.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page14.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page15.tif
source=2020-04-24 Executed Assignme	ents 408212-US-NP#page16.tif

PATENT REEL: 052489 FRAME: 0243

MS Docket No.: <u>408212-US-NP</u>

I <u>Jesse MacDonald SMITH</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>PROJECTING TELEMETRY DATA TO VISUALIZATION MODELS</u>" ("APPLICATION"), which:

\times	oxtimes will be filed. ASSIGNOR hereby autho	rizes, and requests,
	ASSIGNEE'S legal representative, Microsoft	Fechnology Licensing,
	LLC, One Microsoft Way, Redmond, Washingto	on 98052 (ASSIGNEE'S
	LEGAL REPRESENTATIVES), to insert here in pa	rentheses (filed on
	April 24, 2020 and given Application No	_{o.} <u>16/857,741</u> by
	the following Office <u>US - United States P</u>	atent and Trademark
	Office) this APPLICATION's Application No., f	iling date, and Office,
	when known;	
	\Box was filed on and was given A	pplication No
	by the following 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"));

Application No.	Filing Date	Office

Jun Madurdum Inventor's Signature	04/20/2020 Date		
Jesse MacDonald SMITH			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

MS Docket No.: <u>408212-US-NP</u>

I Eric Charles YOUNGSTROM ("ASSIGNOR") am the original inventor or an original
joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent
application entitled "PROJECTING TELEMETRY DATA TO VISUALIZATION MODELS"
("APPLICATION"), which:
V will be filed ACCIONOR benefit with a send an accionate

X	will	be	filed.	ASSIGNOR	hereby	authorizes,	and 1	equests,
	ASSI	GNE	E'S legal	representa	tive, Mic	rosoft Techn	ology L	icensing,
	LLC,	One	Microso	oft Way, Red	mond, Wa	ashington 98	052 (AS	SIGNEE'S
	LEGA	AL RE	EPRESEN ⁻	ΓΑΤΙVES), to	insert he	re in parenth	eses (fil	ed on
	Apr	il 24,	2020	and give	n Applica	ıtion No. <u>16/8</u>	57,741	by
	the	follo	wing Of	ffice <u>US –</u>	United St	tates Patent	and Tr	<u>ademark</u>
	<u>Offic</u>	<u>:e</u>) tł	nis APPLI	CATION's A	pplication	າ No., filing ເ	date, an	d Office,
	whe	n kn	own;					
	was	filed	on		and was	given Applica	tion No	
	by th	ne fo	llowing	_				".

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"));

Application No.	Filing Date	Office	

MS Docket No.: <u>408212-US-NP</u>

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	
Eric Charles YOUNGSTROM	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 408212-US-NP

Lloromy Pront IACKSON ("ASSICNOP") am the original inventor or an original joint

T <u>Jeremy Brent JACKSON</u> ("	ASSIGNOR") am the origina	al inventor or an original joint
inventor of subject matter ("I	NVENTION") disclosed a	nd/or claimed in a patent
application entitled "PROJECTIN	NG TELEMETRY DATA T	O VISUALIZATION MODELS"
("APPLICATION"), which:		
$oxtimes$ will be filed. $oldsymbol{\gamma}$	ASSIGNOR hereby autho	rizes, and requests,
ASSIGNEE'S legal r	epresentative, Microsoft	Technology Licensing,
LLC, One Microsoft	: Way, Redmond, Washingt	on 98052 (ASSIGNEE'S
LEGAL REPRESENTA	ATIVES), to insert here in pa	arentheses (filed on
April 24, 2020	_ and given Application N	o. <u>16/857,741</u> by
the following Office	<u> US – United States Patent</u>	and Trademark Office)
this APPLICATION's	s Application No., filing d	late, and Office, when
known;		
☐ was filed on	and was given A	pplication No
by the following Of	fice "	".
Microsoft Technology Lice	ensing, 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 exc	clusive rights, title and in	terest, including the right of
priority, in the INVENTION and the	ne APPLICATION (and all o	ther applications and patents
derived therefrom, such as cont	•	•
United States, its territories, and	all foreign countries ("APF	PLICATION DERIVATIVES"));
•	•	EE'S LEGAL REPRESENTATIVES
to insert the Application No., fi	-	the following table for any
APPLICATION DERIVATIVES after	they are known;	
Application No.	Filing Date	Office

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

Date

Jeremy Brent JACKSON

Printed Name in English

Printed Name in Native Language

(if other than English)

by the following Office "

·		VSKY ("ASSIGNOR") am the original inventor or an original
Joint invento	or of subject matt	er ("INVENTION") disclosed and/or claimed in a patent
application	entitled "PROJECT	<u> </u>
("APPLICATIO	N"), which:	
\boxtimes	will be filed.	ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal	representative, Microsoft Technology Licensing,
	LLC, One Microso	oft Way, Redmond, Washington 98052 (ASSIGNEE'S
	LEGAL REPRESENT	FATIVES), to insert here in parentheses (filed on
	April 24, 2020	and given Application No. <u>16/857,741</u> by
	the following Offi	ce <u>US – United States Patent and Trademark Office</u>)
	this APPLICATION	I's Application No., filing date, and Office, when
	known;	
	was filed on	and was given Application No

MS Docket No.: <u>408212-US-NP</u>

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"));

Application No.	Filing Date	Office

MS Docket No.: <u>408212-US-NP</u>

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"));

4/20/20
Dute
Printed Name in Native Language (if other than English)

MS Docket No.: 408212-US-NP

I Jason John FIERST ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROJECTING TELEMETRY DATA TO VISUALIZATION MODELS" ("APPLICATION"), which: \boxtimes 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 <u> April 24, 2020</u> and given Application No. <u>16/857,741</u> the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office. when known; was filed on _____ and was given Application No by the following 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. Office Filing Date

MS Docket No.: 408212-US-NP

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");

	4 /20 / 2020
Inventor's Signature	Date
Jason John FIERST	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Daniel Taylor ROSAS</u> ("ASSIGNOR") am the original inventor or an original joint

MS Docket No.: <u>408212-US-NP</u>

			•	/							_	,
inventor of	subject	matter	("INV	ENTION")	dis	closed	and	/or	claimed	in	a	patent
application	entitled	"PROJEC	TING	TELEMET	RY	DATA	TO	VIS	<u>UALIZATI</u>	<u> </u>	М	ODELS"
("APPLICATION	ON"), whi	ch:										

\times	will be	e filed.	ASSIGNOR	hereby	authorizes,	and r	equests
	ASSIGN	EE'S legal	l representat	tive, Micr	osoft Techno	ology Li	icensing
	LLC, Or	ne Microso	oft Way, Redi	nond, Wa	shington 980	052 (AS	SIGNEE'S
	LEGAL I	REPRESEN [®]	TATIVES), to	insert he	re in parenth	eses (fil	ed on
	April 2	4, 2020	and give	n Applica	tion No. <u>16/8</u>	57,741	by
	the fol	lowing O	ffice <u>US – l</u>	Jnited St	ates Patent	and Tr	<u>ademark</u>
	Office)	this APPL	ICATION's A	pplicatior	n No., filing o	late, an	d Office
	when k	nown;					
	was file	d on	;	and was o	given Applica	tion No	
		 following		•			". '

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"));

Application No.	Filing Date	Office

Inventor's Signature	14/20/20 Date
Daniel Taylor ROSAS	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: <u>408212-US-NP</u>

		·
joint inventor of subject matter application entitled "PROJECT" ("APPLICATION"), which: Will be filed. ASSIGNEE'S legal LLC, One Microsoft LEGAL REPRESENT April 24, 2020 the following Office	er ("INVENTION") disclose	orizes, and requests, Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. 16/857,741 by Patent and Trademark
by the following C Microsoft Technology Lie behalf of itself and its succe desirous of acquiring, the enti- right of priority, in the INVENTI patents derived therefrom, suc- for the United States, its to	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
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA Application No.	ne Application No., filin	
1		1

Royalin Johnst. Inventor's Signature	<u> 1/24/2020</u> Date
George Oliver JOHNSTON	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>T</u>	<u>ed</u>	Tai-Yu (CHEN ("A	ASSIGN	NOR") am	the	origina	al inv	/ent	or or a	an o	rigir	nal joint
inventor	of	subject	matter	("INV	ENTION")	dis	closed	and	/or	claime	ed i	n a	patent
applicatio	n	entitled	"PROJEC	TING	TELEMET	RY	DATA	ТО	VISI	JALIZA	ATIO	<u>N N</u>	иODELS"
("APPLICA	١TIC	N"), whic	ch:										

MS Docket No.: <u>408212-US-NP</u>

X	will	be	filed.	ASSIGN	NOR	hereby	auth	orizes,	and	reque	ests
	ASSI	GNE	E'S lega	l repres	entat	ive, Mi	crosoft	Techno	ology	Licens	ing.
	LLC,	One	Micros	oft Way,	Redr	nond, V	/ashing	gton 98	052 (4	ASSIGN	EE'S
	LEGA	AL RE	EPRESEN	TATIVES), to	insert h	ere in	parenth	eses (filed o	n
	Apr	il 24,	2020	and	givei	n Applic	ation I	No. <u>16/8</u>	57,74	1	_ by
	the	follo	wing C	ffice <u>US</u>	- l	Jnited S	<u>States</u>	Patent	and ⁻	<u>Trader</u>	<u>nark</u>
	<u>Offic</u>	<u>ce</u>) tł	nis APPL	ICATION	's A	oplicatio	n No.,	filing o	date, a	and Of	fice,
	whe	n kn	own;								
	was	filed	on		á	and was	given	Applica	tion N	lo	
				Office "			5			".	

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"));

Application No.	Filing Date	Office			

1	
	H/20/20
Inventor's Signature	Date
Ted Tai-Yu CHEN	
Printed Name in English	Printed Name in Native Language (if other than English)