PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7142465

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ISHANI CHAKRABORTY	09/21/2020
JONATHAN C. HANZELKA	09/21/2020
LU YUAN	09/21/2020
PEDRO URBINA ESCOS	09/22/2020
THOMAS M. SOEMO	09/21/2020

RECEIVING PARTY DATA

Name:	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:	17585053

CORRESPONDENCE DATA

Fax Number:

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: 3143021451
Email: docket@bjfip.com

Correspondent Name: BARTA JONES & FOLEY P.C. (PATENT GROUP

Address Line 1: 3308 PRESTON ROAD

Address Line 2: #350-161

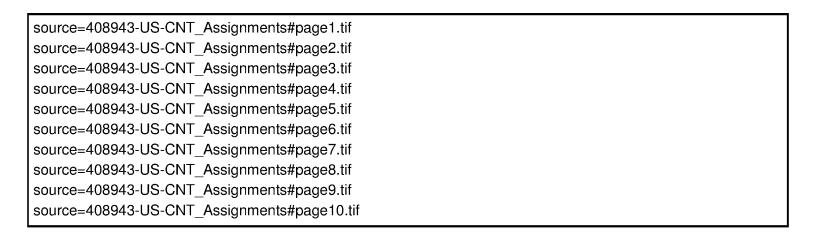
Address Line 4: PLANO, TEXAS 75093

ATTORNEY DOCKET NUMBER:	408943-US-CNT
NAME OF SUBMITTER: HOLLI L. TEMPLETON	
SIGNATURE:	/Holli L. Templeton/
DATE SIGNED: 01/26/2022	

Total Attachments: 10

PATENT REEL: 058780 FRAME: 0401

507095627



PATENT REEL: 058780 FRAME: 0402

I Ishani CHAKRABORTY ("ASSIGNOR") am the original inventor or an original joint
inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent
application entitled " <u>TRAINING MULTI-OBJECT TRACKING MODELS USING SIMULATION</u> '
("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests,
ASSIGNEE'S logal representative Microsoft Tachnology Licensing

MS Docket No.: 408943-US-NP

will	be	filed.	ASSIGNOR	hereby	authorize	es, and	requests,
ASSIC	GNE	E'S legal	representat	ive, Micr	osoft Tec	hnology	Licensing,
LLC.,	One	e Micros	oft Way, Redı	nond, Wa	ashington	98052 (ASSIGNEE'S
LEGA	L R	EPRESEN	NTATIVES), to	o insert	here in	parenth	eses (filed
on _			and giv	⁄en Appli	cation No.		by
the 1	follo	wing O	ffice <u>"US – l</u>	Jnited St	tates Pate	nt and	<u>Trademark</u>
<u>Offic</u>	<u>e"</u> ; t	his APPL	ICATION's A	pplicatio	n No., filir	ıg date,	and Office,
wher	ı kno	own;					

was filed on <u>September 18, 2020</u> and was given Application

No <u>17/026,084</u> by the following Office "<u>US – United States Patent</u>

<u>and Trademark Office</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"));

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
17/585,053	January 26, 2022	United States Patent & Trademark

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"));

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	Sept 21, 2020 Date
Ishani CHAKRABORTY Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Jonathan C. HANZELKA</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>TRAINING MULTI-OBJECT TRACKING MODELS USING SIMULATION</u>" ("APPLICATION"), which:

MS Docket No.: 408943-US-NP

will	be	filed.	ASSIGNOR	hereby	authoriz	zes, and	requests,
ASSI	GNE	E'S lega	l representat	ive, Micr	osoft Te	chnology	Licensing,
LLC.	, One	e Micros	oft Way, Red	mond, Wa	ashingtor	n 98052 (ASSIGNEE'S
LEGA	AL R	REPRESEN	NTATIVES), t	o insert	here in	parenth	eses (filed
on_			and giv	ven Appli	cation No	o	by
the	follo	wing O	ffice <u>"US – l</u>	Jnited St	tates Pat	ent and	<u>Trademark</u>
<u>Offic</u>	<u>:e"</u> ; t	his APPI	LICATION's A	pplicatio	n No., fil	ing date,	and Office,
whe	n kn	own;					

was filed on <u>September 18, 2020</u> and was given Application
No <u>17/026,084</u> by the following Office "<u>US - United States Patent</u>
and <u>Trademark Office</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"));

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
17/585,053	January 26, 2022	United States Patent & Trademark

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"));

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	9-21-20 Date
Jonathan C. HANZELKA	
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Lu YUAN</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>TRAINING MULTI-OBJECT TRACKING MODELS USING SIMULATION</u>" ("APPLICATION"), which:

MS Docket No.: 408943-US-NP

will	be	filed.	ASSIGNOR	hereby	authori	zes, and	requests,
ASSI	GNE	E'S lega	l representat	ive, Micr	osoft Te	echnology	Licensing,
LLC.	, On	e Micros	oft Way, Redi	mond, Wa	ashingto	n 98052 (ASSIGNEE'S
LEGA	AL R	REPRESEN	NTATIVES), to	o insert	here ir	n parenth	eses (filed
on_			and giv	ven Appli	cation N	o	by
the	follo	wing O	ffice <u>"US – l</u>	Jnited St	tates Pa	tent and	<u>Trademark</u>
<u>Offic</u>	<u>ce"</u> ; t	his APPL	ICATION's A	pplicatio	n No., fil	ling date,	and Office,
whe	n kn	own;					

was filed on <u>September 18, 2020</u> and was given Application
No <u>17/026,084</u> by the following Office "<u>US – United States Patent</u>
and <u>Trademark Office</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"));

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
17/585,053	January 26, 2022	United States Patent & Trademark

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"));

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).

In Ynan	9/21/2020		
Inventor's Signature	Date		
Lu Yuan	袁路		
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

of acquiring priority, in to derived ther United State ASSIG to insert the	he INVENTION an efrom, such as cs, its territories, and inverse authorized and inverse afrom No.	ontinuing applications, and all foreign countries orizes, and requests, A	d all other applications and pater in whole or in part, in and for the s ("APPLICATION DERIVATIVES")); SSIGNEE'S LEGAL REPRESENTATIV ce into the following table for a Office United States Patent & Trademark				
of acquiring priority, in to derived ther United State ASSIC to insert the APPLICATION	he INVENTION an efrom, such as cs, its territories, and inverse authors and DERIVATIVES af	ontinuing applications, and all foreign countries orizes, and requests, All, filing date, and Offic ter they are known;	in whole or in part, in and for the second section of the second section of the second				
of acquiring priority, in t derived ther United State ASSIC	he INVENTION an efrom, such as c s, its territories, a iNOR hereby auth	ontinuing applications, and all foreign countries orizes, and requests, A	in whole or in part, in and for the state of				
of acquiring priority, in t derived ther United State	he INVENTION an efrom, such as c s, its territories, a	ontinuing applications, and all foreign countries	in whole or in part, in and for the state of				
of acquiring priority, in t derived ther	he INVENTION an efrom, such as c	ontinuing applications,	in whole or in part, in and for the				
of acquiring priority, in t	he INVENTION an		• *				
of acquiring							
behalf of itse		exclusive rights, title a	and interest, including the right				
Micro			ington limited liability company, (INEE"), is entitled to, and is desiro				
	and Hademark	Onne ,					
No <u>17/026,084</u> by the following Office " <u>US - United States Patent</u> <u>and Trademark Office</u> ";							
\boxtimes	was filed on <u>September 18, 2020</u> and was given Application						
	when known;						
	the following Office <u>"US – United States Patent and Trademark</u> Office": this APPLICATION's Application No., filing date, and Office,						
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application No by						
LJ			authorizes, and requests, osoft Technology Licensing,				
("APPLICATION		NA PROBLEM SOUTH	SUITO INDUCES OSIITO SIINOESIIO				
			sed_and/or_claimed_in_a_pate <u> </u>				
			riginal inventor or an original joi				
I Pad			MS Docket No.: 408943-US-				

Page 1 of 2

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"));

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).

	9/22/2020
Inventor's Signature	Date
Pedro Urbina ESCOS	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 408943-US-NP

I <u>Thomas M. SOEMO</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>TRAINING MULTI-OBJECT TRACKING MODELS USING SIMULATION</u>" ("APPLICATION"), which:

\square	will be filed	i. ASSIGNO	R hereby	authorize	es, and	requests,
	ASSIGNEE'S I	egal represen	tative, Mic	rosoft Tec	hnology	Licensing,
	LLC., One Mic	rosoft Way, Re	edmond, W	ashington	98052 (/	ASSIGNEE'S
	LEGAL REPRE	SENTATIVES),	to insert	here in	parenthe	eses (filed
	0n	and	given Appl	ication No.		by
	the following	Office <u>"US</u>	- United S	tates Pate	nt and	<u>Trademark</u>
	Office"; this A	(PPLICATION's	Applicatio	n No., filin	ig date, a	and Office,
	when known;					

was filed on <u>September 18, 2020</u> and was given Application

No <u>17/026,084</u> by the following Office "<u>US - United States Patent</u>

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	Office
17/585,053	January 26, 2022	United States Patent & Trademark

Page 1 of 2

MS Docket No.: 408943-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")):

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

Oate

Thomas M. SOEMO

Printed Name in English

Printed Name in Native Language

(if other than English)