PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7382583

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YU ZHANG	09/05/2019
YING XU	08/29/2019
DARREN SHAUN FIRTH	09/05/2019
NANDA KISHORE SREERAMA	06/21/2019
AARON BRADY O'CALLAGHAN	06/06/2019
JAMES THOMAS GODISH	06/13/2019
ZACHARY THOMAS CAPEHART	09/03/2019

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:	17521832

CORRESPONDENCE DATA

Fax Number: (801)532-7543

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: 8015321500

Email: mspatent@rqn.com, usdocket@microsoft.com
Correspondent Name: RAY QUINNEY & NEBEKER - MICROSOFT

Address Line 1: 36 SOUTH STATE STREET

Address Line 2: SUITE 1400

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	406862-US-CNT
NAME OF SUBMITTER:	JAMES S. BULLOUGH
SIGNATURE:	/James S. Bullough/
DATE SIGNED:	06/14/2022

DATENT 507335659 REEL: 060197 FRAME: 0069

Total Attachments: 16 source=406862-US-CNT_2022-06-14_Assignment#page1.tif source=406862-US-CNT 2022-06-14 Assignment#page2.tif source=406862-US-CNT 2022-06-14 Assignment#page3.tif source=406862-US-CNT_2022-06-14_Assignment#page4.tif source=406862-US-CNT_2022-06-14_Assignment#page5.tif source=406862-US-CNT_2022-06-14_Assignment#page6.tif source=406862-US-CNT_2022-06-14_Assignment#page7.tif source=406862-US-CNT_2022-06-14_Assignment#page8.tif source=406862-US-CNT 2022-06-14 Assignment#page9.tif source=406862-US-CNT_2022-06-14_Assignment#page10.tif source=406862-US-CNT_2022-06-14_Assignment#page11.tif source=406862-US-CNT 2022-06-14 Assignment#page12.tif source=406862-US-CNT 2022-06-14 Assignment#page13.tif source=406862-US-CNT_2022-06-14_Assignment#page14.tif source=406862-US-CNT_2022-06-14_Assignment#page15.tif source=406862-US-CNT 2022-06-14 Assignment#page16.tif

PATENT REEL: 060197 FRAME: 0070

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5704227

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YU ZHANG	09/05/2019
YING XU	08/29/2019
DARREN SHAUN FIRTH	09/05/2019
NANDA KISHORE SREERAMA	06/21/2019
AARON BRADY O'CALLAGHAN	06/06/2019
JAMES THOMAS GODISH	06/13/2019
ZACHARY THOMAS CAPEHART	09/03/2019

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:	16562127

CORRESPONDENCE DATA

Fax Number: (801)532-7543

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: (801) 532-1500

Email: mspatent@rqn.com,usdocket@microsoft.com

Correspondent Name: RAY QUINNEY & NEBEKER Address Line 1: 36 SOUTH STATE STREET

Address Line 2: SUITE 1400

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	406862-US-NP
NAME OF SUBMITTER:	JAMES S. BULLOUGH
SIGNATURE:	/James S. Bullough, Reg.# 65352/
DATE SIGNED:	09/05/2019

505657422 PATENT REEL: 060197 FRAME: 0071

Total Attachments: 14 source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page1.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page2.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page3.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page4.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page5.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page6.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page7.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page8.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page9.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page10.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page11.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page12.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page13.tif source=406862-US-NP_2019-09-05_ExecutedAssignmentsALL#page13.tif

PATENT REEL: 060197 FRAME: 0072

I <u>Yu ZHANG</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>INGESTING AND PROCESSING CONTENT TYPES</u>" ("APPLICATION"), which:

	will	be	filed.	ASSIGNO	R her	eby	autho	orizes,	and	requ	uests,
	ASSI	GNE	E'S legal	represent	ative,	Micro	osoft	Techno	ology	Licer	nsing,
	LLC,	One	Microso	ft Way, Re	dmon	d, Wa	shing	ton 98	052 (A	'SSIG	NEE'S
	LEGA	AL R	EPRESEN	TATIVES),	to in	sert	here	in pa	renthe	ses	(filed
	on				_	and		given	А	pplic	ation
	No.					by		the		follo	owing
	Offic	:e _)	this	APPL	ICAT	ION's
	Appl	icati	on No., f	iling date,	and O	ffice,	, when	know	n;		
\times	was	filed	on <u>May</u>	<u>31, 2019</u> a	nd wa	ıs giv	en Ap	plicatio	on No.		
	62/8	355,7	799 by t	he followin	g Offi	ice " <u>U</u>	S – Ur	nited St	tates P	aten	t and

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
16/562,127	September 5, 2019	USPTO
17/521,832	November 8, 2021	USPTO

	,

Yan Yan	2019-09-05
Inventor's Signature	Date
Yu ZHANG	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Ying XU</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "INGESTING AND PROCESSING CONTENT TYPES" ("APPLICATION"), which:

Ш	will	be	filed.	ASSIGNOR	t h	ereby	autho	orizes,	and	requ	uests
	ASSI	GNE	E'S legal	representa	ative	, Micr	osoft	Techno	ology	Licer	nsing
	LLC,	One	Microso	ft Way, Rec	lmo	nd, Wa	shing	ton 98	052 (4	ASSIG	NEE'S
	LEG/	۹L R	EPRESEN	TATIVES),	to	insert	here	in pa	renthe	eses	(filed
	on					and		given	A	pplic	cation
	No.					by		the		follo	owing
	Offic	:e _)	this	APPL	.ICAT	ION's
	Appl	icati	on No., f	iling date, a	and	Office	, wher	ı know	n;		
\times	was	filed	on <u>May</u>	<u>31, 2019</u> a	nd v	vas giv	en Ap	plication	on No.	•	

62/855,799 by the following Office "US - United States Patent and

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
16/562,127	September 5, 2019	USPTO
17/521,832	November 8, 2021	USPTO

٥	A4444444444	·	***************************************
3			
3	<u> </u>		ì
ä	i i		£

*****	***************************************	
	Yirs Xu	08/29/2019
	Inventor's Šignature	Date
	Ying XU	徐莹
	Printed Name in English	Printed Name in Native Language
<u> </u>		(if other than English)

I <u>Darren Shaun FIRTH</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>INGESTING AND PROCESSING CONTENT TYPES</u> " ("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 this APPLICATION's Application No., filing date, and Office, when known;
 was filed on May 31, 2019 and was given Application No. 62/855,799 by the following Office "US – United States Patent and

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"));

Tollowing table for any full Elefation Belattiful Belat			
Application No.	Filing Date	Office	
16/562,127	September 5, 2019	USPTO	
17/521,832	November 8, 2021	USPTO	

PATENT ASSIGNMENT	S Docket No.: <u>406862-US-PS</u>

***************************************	Done Las	9/05/2019
************	Inventor's Signature	Date
***********	Darren Shaun FIRTH	
********	Printed Name in English	Printed Name in Native Language
*******		(if other than English)

I <u>Nanda Kishore SREERAMA</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>INGESTING AND PROCESSING CONTENT TYPES</u> " ("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) this APPLICATION's Application No., filing date, and Office, when known;
was filed on May 31, 2019 and was given Application No.
62/855,799 by the following Office "US - United States Patent and

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"));

Tollowing table for any fur Elefthort Bellit frittes after they are known,			
Filing Date	Office		
September 5, 2019	USPTO		
November 8, 2021	USPTO		
	Filing Date September 5, 2019		

PATENT ASSIGNMENT	Docket No.: <u>406862-US-PSI</u>

~ / ·	\$
Inventor's Signature	
Nanda Kishore SREERAMA Printed Name in English	<u>NAMPA KISIORG SREERAMA</u> Printed Name in Native Language (if other than English)

dy O'CALLA	<u>AGHAN</u> ("ASS	SIGNOR") ar	n the orig	ginal invento	r or an
tor of subje	ct matter ("IN	NVENTION")	disclosed	and/or clain	ned in a
entitled	"INGESTING	AND PR	<u>OCESSING</u>	CONTENT	TYPES"
nich:					
e filed.	ASSIGNOR I	nereby aut	horizes, a	and requests	5,
NEE'S legal	representativ	e, Microsof	t Technol	ogy Licensing] ,
ne Microso	ft Way, Redmo	ond, Washin	igton 9805	2 (ASSIGNEE	S
REPRESEN	TATIVES), to	insert her	e in pare	ntheses (file	d
		and	given	Applicatio	n
		by	the	followin	g
			_) this A	APPLICATION'	's
ation No., fi	ling date, and	d Office, wh	en known;		
ed on <u>May</u> 3	31, 2019 and	was given A	Application	No.	
5,799 by th	ne following C	Office " <u>US –</u>	United Sta	tes Patent and	<u>d</u>
<u>mark Office</u> '	·. ,				
	entitled entitled entitled entitled entitled entitled entitled. NEE'S legal ene Microsof REPRESENT ene Microsof entitled entitle	tor of subject matter ("IN entitled "INGESTING nich: The filed. ASSIGNOR has been supported by the support of	tor of subject matter ("INVENTION") entitled "INGESTING AND PRoich: e filed. ASSIGNOR hereby autometric autometric and by ation No., filing date, and Office, where and may 31, 2019 and was given A 5,799 by the following Office "US —	tor of subject matter ("INVENTION") disclosed entitled "INGESTING AND PROCESSING nich: De filed. ASSIGNOR hereby authorizes, and subject matter ("Ingesting and given by the authorizes), to insert here in pare and given by the ation No., filing date, and Office, when known; ed on May 31, 2019 and was given Application 5,799 by the following Office "US – United States	nich: De filed. ASSIGNOR hereby authorizes, and requests NEE'S legal representative, Microsoft Technology Licensing One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE' REPRESENTATIVES), to insert here in parentheses (file and given Applicatio by the followin by the followin ation No., filing date, and Office, when known; ed on May 31, 2019 and was given Application No. 5,799 by the following Office "US – United States Patent and

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"));

Tollowing table for any full Electricity Belutifit 1125 after they are known;			
Application No.	Filing Date	Office	
16/562,127	September 5, 2019	USPTO	
17/521,832	November 8, 2021	USPTO	

PATENT ASSIGNMENT	M	S Docket No.: <u>406862-US-PS</u>
parameter and the second secon		

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).

Aron Brady O'CALLAGHAN
Printed Name in English
Printed Name in English
Printed Name English
Printed Name English
Printed Name English

I <u>James Thomas GODISH</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>INGESTING AND PROCESSING CONTENT TYPES</u> " ("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
was filed on May 31, 2019 and was given Application No. 62/855,799 by the following Office "US – United States Patent and

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"));

Tollowing table for any far Elefation Belavitatives after they are known;			
Filing Date	Office		
September 5, 2019	USPTO		
November 8, 2021	USPTO		
	Filing Date September 5, 2019		

PATENT ASSIGNMENT	M	S Docket No.: <u>406862-US-PS</u>

Que Thomas DA	2019-6-13
fnventor's Signature	Date
James Thomas GODISH	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Zachary Thomas CAPEHART</u> ("ASSIGNOR") am the original inventor or an riginal joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a atent application entitled " <u>INGESTING AND PROCESSING CONTENT TYPES</u> "
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) this APPLICATION's
Application No., filing date, and Office, when known;
\boxtimes was filed on May 31, 2019 and was given Application No.
62/855,799 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"));

Tollowing table for any 7th Electricity Deliter titles are known,			
Application No.	Filing Date	Office	
16/562,127	September 5, 2019	USPTO	
17/521,832	November 8, 2021	USPTO	

PATENT ASSIGNMENT	M:	S Docket No.: 406862-US-PSP

····		maaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
		\

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).

Inversor's Signature Date

Zachary Thomas CAPEHART

Printed Name in English Printed Name in Native Language

(If other than English)