PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6907791

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YIFAN WU	01/10/2018
BENJAMIN YAN SUN	02/08/2018
ZIWEI HE	01/10/2018
XIAOLI LIU	02/08/2018
MINGYANG XIE	01/11/2018
ZHAOYANG LI	01/15/2017
WEIZHI LI	01/17/2018
QING TENG	01/16/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16955034

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.

Email: usdocket@microsoft.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: P.O. BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	403394-US-PCT 1777.881US1
NAME OF SUBMITTER:	JANINE HEITLAND
SIGNATURE:	/ Janine Heitland /
DATE SIGNED:	09/09/2021

PATENT REEL: 057428 FRAME: 0866

Total Attachments: 17 source=1777881US1ASSN#page1.tif source=1777881US1ASSN#page2.tif source=1777881US1ASSN#page3.tif source=1777881US1ASSN#page4.tif source=1777881US1ASSN#page5.tif source=1777881US1ASSN#page6.tif source=1777881US1ASSN#page7.tif source=1777881US1ASSN#page8.tif source=1777881US1ASSN#page9.tif source=1777881US1ASSN#page10.tif source=1777881US1ASSN#page11.tif source=1777881US1ASSN#page12.tif source=1777881US1ASSN#page13.tif source=1777881US1ASSN#page14.tif source=1777881US1ASSN#page15.tif source=1777881US1ASSN#page16.tif source=1777881US1ASSN#page17.tif

PATENT REEL: 057428 FRAME: 0867

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 403394-US-PCT (1777.881US1) Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Yifan Wu, Benjamin Yan Sun, Ziwei He, Xiaoli Liu, Name: Microsoft Technology Licensing, LLC Mingyang Xie, Zhaoyang Li, Weizhi Li, Qing Teng Street Address: One Microsoft Way Additional name(s) of conveying party(ies) attached? Redmond State: WA Zip: 98052 United States of America []Yes [X]No Country: 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment [] Merger [] Security Agreement[] Change of Name [] Other Execution Date: <u>January 10, 2018, February 8, 2018, January 10, 2018, February 8, 2018, January 11, 2018 January 15, 2017, January 17, 2018, January 16, 2018</u> 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 16/955,034 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Lea E. Westman [[Enclosed [Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743 Minneapolis, Minnesota 55402 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Lea West September 8, 2021 Lea E. Westman/Reg. No. 76,380 Name of Person Signing Date Total number of pages including cover sheet: 17

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450

Alexandria, VA 22313-1450

I <u>Yifan WU</u> ("ASSIGNOR") am the original inventor or an original joint inventor
of subject matter ("INVENTION") disclosed and/or claimed in a patent application
entitled "Processing a document through a plurality of input modalities"
("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
and allow Application
Office
Application No., filing date, and Office, when known;
was filed on <u>January 10, 2018</u> and was given Application
No 201810022965.9 by the following Office "State
Intellectual Property Office of the People's Republic of China
· · · · · · · · · · · · · · · · · · ·
(<u>RO/CN)</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
PCT/US2018/066105	December 18, 2018	PCT
16/955,034	June 17, 2020	USPTO

Page 1 of 2

PATENT ASSIGNMEN	NT MS Docket No.:	403394-CN-NP	_
	·····		

吴一凡	01/10/2018
nventor's Signature	Date
Yifan WU	吴一凡
Printed Name in English	Printed Name in Native Language
~	(If other than English)

inventor of	njamin Yan SUN ("ASSIGNOR") am the original inventor or an original joint subject matter ("INVENTION") disclosed and/or claimed in a patent entitled "Processing a document through a plurality of input modalities" ON"), 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 January 10, 2018 and was given Application No 201810022965.9 by the following Office "State Intellectual Property Office of the People's Republic of China (RO/CN) ";

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
PCT/US2018/066105	December 18, 2018	PCT
16,955,034	June 17, 2020	USPTO

Page 1 of 2

	PATENT ASSIGNMENT	MS Docket No.:	403394-CN-NP	
-		uusuliitiin oo		The section of the se
-				
Section of the last				فعطوه فالمختلفات والدويد
ı				

Selle he	2/8/206
nventor/s Signature	Date
Benjamin Yan SUN	孙焱
Printed Name in English	Printed Name in Native Language
-	(if other than English)

subject matte	i HE ("ASSIGNOR") am the original inventor or an original joint inventor of r ("INVENTION") disclosed and/or claimed in a patent application entitled a document through a plurality of input modalities" ("APPLICATION"),
	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 <u>lanuary 10, 2018</u> and was given Application No 201810022965.9 by the following Office " <u>State</u> Intellectual Property Office of the People's Republic of China

(RO/CN) ";

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
PCT/US2018/066105	December 18, 2018	PCT
16,955,034	June 17, 2020	USPTO

Page 1 of 2

PATENT ASSIGNMEN	IT MS Docket No.:	403394-CN-NP
	v	

何能做	2018-1-10
nventor's Signature	Date
Ziwei HE	何紫微
Printed Name in English	Printed Name in Native Language
	
	(if other than English)

I Xiaoli LIU ("ASSIGNOF of subject matter ("INVENTIOI entitled "Processing a doc ("APPLICATION"), which:	N") disclosed and/or cla	
LLC, One Microsof LEGAL REPRESEN' on No. Office	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washing TATIVES), to insert here and by	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed given Application the following) this APPLICATION's
No 20181002296	ry 10, 2018 and was give 55.9 by the following Offi the People's Republic of G	ce <u>" State Intellectual</u>
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 1 DERIVATIVES"));	ssors and assigns ("ASSI re and exclusive rights, to ON and the APPLICATION h as continuing application	itle and interest, including the (and all other applications and ons, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert t following table for any APPLICA	he Application No., filin	
Application No.	Filing Date	Office
PCT/US2018/066105	December 18, 2018	PCT
	June 17, 2020	USPTO
16/955,034	or various and a grant of the second	2-21-1-2

Page 1 of 2

PATENT ASSIGNME	ENT MS Docket No.:	403394-CN-NP	

シリナウ	2/8/2018
nventor's Signature	Date
Kiaoli LIU	刘小力
Printed Name in English	Printed Name in Native Language
	(if other than English)

inventor of	ngyang XIE ("ASSIGNOR") am the original inventor or an original joint subject matter ("INVENTION") disclosed and/or claimed in a patent entitled "Processing a document through a plurality of input modalities" DN"), 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 <u>January 10, 2018</u> and was given Application No <u>201810022965.9</u> by the following Office " <u>State</u> Intellectual Property Office of the People's Republic of China (RO/CN) ":

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"));

ASSIGNEE'S LEGAL authorizes, and requests, ASSIGNOR hereby 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	
PCT/US2018/066105	December 18, 2018	PCT	
16/955,034	June 17, 2020	USPTO	

***************************************			******

Page 1 of 2

REEL: 057428 FRAME: 0877

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"));

ate 明阳
क्षत्र संस
为四
inted Name in Native Language
other than English)
•

1	Zhaoyan	<u>g Ll</u> ("ASS	IGNOR") am	the origi	inal invento	or an	original joint
inventor	of subje	ect matter	("INVENTION	i") disclos	sed and/or	claimed	in a patent
	on entitle ATION"), v		ing a docum	ent throu	gh a pluralii	y of inp	ut modalities"
	٠, اسا	to filed	*CCICNOD	harabu	authorizes	and ro	rotocře

ASSIGNOR hereby authorizes, and requests, will be filed. ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed Application given and on following by the No.) this APPLICATION'S Office Application No., filing date, and Office, when known;

was filed on <u>January 10, 2018</u> and was given Application

No <u>201810022965.9</u> by the following Office "<u>State</u>

Intellectual Property Office of the People's Republic of China

(RO/CN) ";

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
PCT/US2018/066105	December 18, 2018	PCT
16/955,034	June 17, 2020	USPTO

Page 1 of 2

PATENT REEL: 057428 FRAME: 0879

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"));

李章和	2017 - 01-15
Inventor's Signature	Date
Zhaoyang Li	李肇阳
Printed Name in English	Printed Name in Native Language
	(if other than English)

Page 2 of 2

PATENT ASSIGNMENT	MS Docket No.:	403394-CN-NP

I <u>Weizhi LI</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Processing a document through a plurality of input modalities"
("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 January 10, 2018 and was given Application No 201810022965.9 by the following Office "State Intellectual Property Office of the People's Republic of China (RO/CN) ":
Microsoft Technology Licensing, LLC, a Washington limited liability company, on

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
PCT/US2018/066105	December 18, 2018	PCT
16/955,034	June 17, 2020	USPTO
10/933,034		

	PATENT ASSIGNA	MENI MPD	OCKELINO	40.5.594~C1Y=1N1	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***************************************	

参为简	1/17/2018
inventor's Signature	Date
Weizhi Li	李为智
Printed Name in English	Printed Name in Native Language (if other than English)
***************************************	Address of the second s

- 1	Qi	ng]	EN	J_ (*	ASS	IGN	IOR') ar	n ti	ne c	rig	ina	i in	ven	tor	or	an	or	gin	al j	oin	t in	ver	itor
of subj	ject	mat	ter	("II)	IVEN	M	"NC	di	sck)se(1 a	nd,	or'	cla	im	ed	in	ä	pa	tent	: aį	ilqe	cat	ion
entitled	ر" ا	Proc	essi	ng.	a	de	cur	nen	t	thro	ug	ħ.	a	pli	ıral	ity	_0	£_	ing)ut	_m	oda	aliti	ies"
("APPLII	CATI	ON"), w	hich	i:																			÷ 1.

] will be	filed.	ASSIGNO	R her	eby	autho	rizes,	and	reque	ests.
ASSIGN	EE'S legal	represent	ative,	Micro	osoft	Techn	ology	Licens	ing,
LLC, Or	ie Microso	ft Way, Re	dmone	i. Wa	shingt	on 98	052 (/	assion	EE'S
LEGAL	REPRESEN	TATIVES),	to in	sert	here	in pa	renth	eses (filed
on	AAA-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	12.000		and		given	,	Applica	ition
No.	***************************************			by		the		follov	ving
Office)	this	APPI	JCATIC)N's
Applica	tion No., f	iling date.	and O	iffice,	when	know	n;		

was filed on January 10, 2018 and was given Application

No 201810022965.9 by the following Office * State

Intellectual Property Office of the People's Republic of China

(RO/CN) *;

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
PCT/US2018/066105	December 18, 2018	PCT
16/955,034	June 17, 2020	USPTO

Page 1 of 2

-					000																																								
							Š	Š		ì		1																			*														
-		of the																1			8														37										

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).

藤晴	2018/1/16
nventor's Signature	Date
Qing TENG	聯聯
Printed Name in English	Printed Name in Native Language (if other than English)

Page 2 of 2

RECORDED: 09/09/2021