505995728 04/01/2020

EPAS ID: PAT6042438

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIANG LI	03/31/2020
DAVID MCCARTHY PEIXOTTO	03/31/2020
MICHAEL ALAN DOUGHERTY	03/31/2020

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:	16837590

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.

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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:	408232-US-NP
NAME OF SUBMITTER:	TIFFANY B. HEALY
SIGNATURE:	/Tiffany Healy, Reg.# 57912/
DATE SIGNED:	04/01/2020

Total Attachments: 6

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PATENT 505995728 REEL: 052287 FRAME: 0218

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PATENT REEL: 052287 FRAME: 0219

PATENT ASSIGNMENT

I Xiang LI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "COMPILER SUB EXPRESSION DIRECTED ACYCLIC GRAPH (DAG) REMAT FOR REGISTER PRESSURE" ("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 April 1, 2020 and given Application on No. 16/837,590 by 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.	Filing Date	Office

Page 1 of 2

PATENT ASSIGNMENT	MS Docket No.:	408232-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).

7900	03/31/2020
Inventor's Signature	Date
_Xiang LI	李翔
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>David McCarthy PEIXOTTO</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>COMPILER SUB EXPRESSION DIRECTED ACYCLIC GRAPH (DAG) REMAT FOR REGISTER PRESSURE</u>" ("APPLICATION"), which:

X	will	be	filed.	ASSIGNOR	hereby	autho	orizes,	and	req	uests,
	ASSI	GNEI	E'S legal	representa	tive, Micr	osoft	Techno	ology	Licei	nsing,
	LLC,	One	Microso	oft Way, Redi	mond, Wa	ashing	ton 980)52 (A	SSIG	NEE'S
	LEGA	AL R	EPRESEN	TATIVES), t	o insert	here	in pai	renthe	ses	(filed
	on		April 1, 2	2020	and		given	А	ppli	cation
	No.	16	<u>/837,590</u>	by the	following	g Offic	ce <u>US</u>	- Uni	ted :	<u>States</u>
	<u>Pate</u>	nt ar	<u>nd Trade</u>	mark Office) this AP	PLICAT	ΓΙΟΝ's <i>i</i>	Applic	ation	1 No.,
	filing	g dat	e, and O	ffice, when	known;					
	was	filed	on		and was 🤉	given A	Applicat	tion		
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	"				". 					

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"));

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Page 1 of 2

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DIMEH	3/31/2020
Inventor's Signature	Date
David McCarthy PEIXOTTO Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>Michael Alan DOUGHERTY</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>COMPILER SUB EXPRESSION DIRECTED ACYCLIC GRAPH (DAG) REMAT FOR REGISTER PRESSURE</u>" ("APPLICATION"), which:

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	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 April 1, 2020 and given Application
	No. 16/837,590 by the following Office US - United States
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	filing date, and Office, when known;
	was filed on and was given Application
	No by the following Office
	u n T

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Page 1 of 2

PATENT ASSIGNMENT			MS Docket No.:	408232-US-NP
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	3-81-2020
Inventor's Signature	Date
Michael Alan DOUGHERTY	
Printed Name in English	Printed Name in Native Language
	(if other than English)