506612915 04/15/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6659722

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMOL ASHOK AMBARDEKAR	01/25/2018
ALEKSANDAR TOMIC	01/26/2018
CHAD BALLING MCBRIDE	01/26/2018
GEORGE PETRE	01/25/2018
KENT D. CEDOLA	01/25/2018
LARRY MARVIN WALL	01/25/2018
BORIS BOBROV	01/26/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17232074

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: 888-785-1482

Email: usdocket@microsoft.com

Correspondent Name: NEWPORT IP, LLC
Address Line 1: 1400 112TH AVE SE

Address Line 2: SUITE 100

Address Line 4: BELLEVUE, WASHINGTON 98004

ATTORNEY DOCKET NUMBER:	MS1-9107USC1
NAME OF SUBMITTER:	NOEMI TOVAR
SIGNATURE:	/Noemi Tovar/
DATE SIGNED:	04/15/2021

506612915 PATENT REEL: 055937 FRAME: 0001

Total Attachments: 14

source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page1.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page2.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page3.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page5.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page5.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page6.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page8.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page9.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page10.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page11.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page12.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page13.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page13.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page13.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page13.tif source=403051-US-CNT-MS1-9107USC1-Parent-Assignments-as-filed-4-15-21#page13.tif

PATENT REEL: 055937 FRAME: 0002

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

I <u>Amol Ashok AMBARDEKAR</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>FLEXIBLE HARDWARE FOR HIGH THROUGHPUT VECTOR DEQUANTIZATION WITH DYNAMIC VECTOR LENGTH AND CODEBOOK SIZE</u>" ("APPLICATION"), which:

	ASSIGNEE'S legal in LLC., One Micro (ASSIGNEE'S LEGAL parentheses (filed No	representative, Mi osoft Way, Rei AL REPRESENTAT on January 26, 2 by the following nark Office"; this A	y authorizes, and requests, crosoft Technology Licensing, dmond, Washington 98052 FIVES), to insert here in 1018 and given Application ng Office "US – United States APPLICATION's Application No.,
	was filed on	ano	l was given Application
			owing Office " <u>US - United</u>
	States Patent and T		
right of prior patents deriv for the Uni DERIVATIVES	ity, in the INVENTIC ed therefrom, such ted States, its te '));	N and the APPLIC. as continuing apprinted and all	ghts, title and interest, including the ATION (and all other applications and plications, in whole or in part, in and I foreign countries ("APPLICATION requests, ASSIGNEE'S LEGAL
REPRESENTAT	TIVES to insert the	e Application No	., filing date, and Office into the after they are known;
Application N		Filing Date	Office

Client Docket No.: 403051-US-NP Attorney Docket No.: MSI-9107US

	1.	

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).

A・A・Ambardekar・ 01/25/2018
Inventor's Signature Date

Amol Ashok AMBARDEKAR 3ポープ チャーカー 3デース・
Printed Name in English Printed Name in Native Language (if other than English)

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

		Attorney Docket No.: MS1-91070
inventor of subject matter application entitled "FLE	er ("INVENTION") disclo XIBLE HARDWARE FO	riginal inventor or an original join osed and/or claimed in a pater OR HIGH THROUGHPUT VECTO LENGTH AND CODEBOOK SIZ
ASSIGNEE'S le LLC., One (ASSIGNEE'S parentheses (No. <u>15/881,51</u> <u>Patent and Tra</u>	gal representative, Micr Microsoft Way, Redn LEGAL REPRESENTATIV filed on <u>January 26, 201</u> 9 by the following	authorizes, and requests, rosoft Technology Licensing, mond, Washington 98052 VES), to insert here in 18 and given Application 9 Office "US – United States PLICATION's Application No.,
No	and v by the follow and Trademark Office";	
behalf of itself and its su desirous of acquiring, the e right of priority, in the INVE patents derived therefrom,	ccessors and assigns (entire and exclusive righ NTION and the APPLICAT such as continuing appl	ington limited liability company, o "ASSIGNEE"), is entitled to, and interest, including the TION (and all other applications an ications, in whole or in part, in an foreign countries ("APPLICATIO
ASSIGNOR hereby REPRESENTATIVES to inserfollowing table for any APPL	t the Application No.,	requests, ASSIGNEE'S LEGA filing date, and Office into th fter they are known:
Application No.	Filing Date	Office
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Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

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"));

I-26/2018	******
1 L 23 Cm 3 Cm	
Inventor's Signature Date	
Aleksandar TOMIC Aleksandar Tomić	
Printed Name in English Printed Name in Native Language	
(if other than English)	

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

I <u>Chad Bailing McBRIDE</u> ("ASS	SIGNOR") am the origin	al inventor or an original joint
inventor of subject matter ("INV	'ENTION") disclosed a	$\mathbf{a}nd/or$ claimed in a patent
application entitled "FLEXIBLE	HARDWARE FOR HI	GH THROUGHPUT VECTOR
DEQUANTIZATION WITH DYNAM	MIC VECTOR LENGT	<u>'H AND CODEBOOK SIZE"</u>
("APPLICATION"), which:		
oxtimes will be filed. ASS	SIGNOR hereby author	orizes, and requests,
ASSIGNEE'S legal rep	resentative, Microsoft	Technology Licensing,
LLC., One Microso	oft Way, Redmond,	Washington 98052
(ASSIGNEE'S LEGAL	REPRESENTATIVES),	to insert here in
parentheses (filed or	January 26, 2018	and given Application
No. <u>15/881,519</u>	by the following Offic	ce <u>"US – United States</u>
		TION's Application No.,
filing date, and Office	, when known;	
☐ was filed on	and was gi	ven Application
	by the following C	
States Patent and Trac		
Microsoft Technology Licens	ing, LLC, a Washingtor	n limited liability company, on
behalf of itself and its successor		• • • •
desirous of acquiring, the entire a	-	
right of priority, in the INVENTION	-	
patents derived therefrom, such as		• •
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DERIVATIVES"));	tories, and an rorer	gii countines (/ii/Lie/ti/oit
DERIVATIVES)),		
ASSIGNOR hereby auth	norizes, and requ	iests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert the	Application No., filing	g date, and Office into the
following table for any APPLICATIO	N DERIVATIVES after th	ey are known;
·	ing Date	Office
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Client Docket No.: 403051-US-NP Attorney Docket No.: MST-9107US

3		

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).

Chad Balling McBRIDE
Printed Name in English

(if other than English)

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

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• •			HIGH THROUGHPUT VECTOR
DEQUANTIZ	<u>ATION WITH D</u>	<u>YNAMIC VECTOR LEI</u>	<u>NGTH AND CODEBOOK SIZE</u>
("APPLICATIO	DN"), which:		
	ASSIGNEE'S lega LLC., One Mi (ASSIGNEE'S LE parentheses (file No. 15/881,519 Patent and Trade	l representative, Micros crosoft Way, Redmo GAL REPRESENTATIVE: ad on January 26, 2018 by the following C	uthorizes, and requests, oft Technology Licensing, nd, Washington 98052 S), to insert here in and given Application Office <u>"US – United States</u> ICATION's Application No.,
	was filed on	and wa	s given Application
		by the followin	
		Trademark Office";	
behalf of its desirous of a right of prior patents deriv	elf and its succe acquiring, the ent ity, in the INVENT red therefrom, sur ted States, its	essors and assigns ("A' ire and exclusive rights ION and the APPLICATIO ch as continuing applica	gton limited liability company, on SSIGNEE"), is entitled to, and is , title and interest, including the DN (and all other applications and itions, in whole or in part, in and preign countries ("APPLICATION
REPRESENTA [.]	TIVES to insert t		equests, ASSIGNEE'S LEGAL ling date, and Office into the r they are known;
Application N	lo.	Filing Date	Office
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Client Docket No.: 403051-US-NP Attorney Docket No.: MS3-9107US

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"));

5/Mu	1/25/2018
Inventor's Signature	Date
George PETRE	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

			original inventor or an	
			closed and/or claimed	
			<u>FOR HIGH THROUGHP</u>	
		DYNAMIC VECTOR	LENGTH AND CODE	<u>BOOK_SIZE</u> "
("APPLICATIO	DN"), which:			
لكا	will be filed.	ASSIGNOR hereb	y authorizes, and req	uests,
	ASSIGNEE'S leg	al representative, M	icrosoft Technology Lice	nsing,
	LLC., One M	Microsoft Way, Re	dmond, Washington !	98052
	(ASSIGNEE'S I	EGAL REPRESENTA	TIVES), to insert her	re in
			2018 and given Appli	
	No	by the followi	ng Office <u>"US - United</u>	<u>States</u>
	Patent and Train	<u>demark Office"</u> ; this <i>i</i>	APPLICATION's Applicatio	n No.,
	filing date, and	Office, when known;		
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			owing Office " <u>US – United</u>	ł.
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Micro	soft Technoloav	Licensing, LLC, a Wa	shington limited liability	company, on
			("ASSIGNEE"), is entitle	
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Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

Janes		

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"));

MALA	Jan 25, 20/2
Inventor's Signature	Date
Kent D. CEDOLA	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

I Larry Marvin WALL ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FLEXIBLE HARDWARE FOR HIGH THROUGHPUT VECTOR DEQUANTIZATION WITH DYNAMIC VECTOR LENGTH AND CODEBOOK SIZE" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC.. One Microsoft Way, Redmond, Washington REPRESENTATIVES), (ASSIGNEE'S LEGAL insert here in to **January 26, 2018** parentheses (filed on and given Application 15/881,519 by the following Office "US - United States Patent and Trademark Office"; this APPLICATION's Application No., filing date, and Office, when known; 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")); **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; Office Application No. Filing Date

Client Docket No.: 403051-US-NP Attorney Docket No.: MS1-9107US

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"));

Jany M Wall Inventor's Agnature	1/25/2018 Date
Larry Marvin WALL	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Client Docket No. 403051-US-NP Attorney Docket No. MS1-9107US

l <u>Bori</u> :	<u>s BOBROV</u> ("ASSIC	SNOR") am the original	inventor or an original joint
inventor of	subject matter ("INVENTION") disclosed	and/or claimed in a patent
application	entitled "FLEXIB	<u>E HARDWARE FOR H</u>	<u>IGH THROUGHPUT VECTOR</u>
DEQUANTIZA	TION WITH DY	NAMIC VECTOR LENGT	<u>TH AND CODEBOOK SIZE"</u>
("APPLICATIO	N"), which:		
	ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (file	ASSIGNOR hereby auth representative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), January 26, 2018	Technology Licensing, Washington 98052 to insert here in and given Application
		by the following Offi	
		<u>nark Office";</u> this APPLICA ffice, when known;	TION'S Application No.,
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	was filed on	and was g	iven Application
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	States Patent and	<u>Trademark Office</u> ":	
behalf of its desirous of a right of prior patents deriv	elf and its succe cquiring, the enti ity, in the INVENTI ed therefrom, suc ted States, its	ssors and assigns ("ASSI 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 as, in whole or in part, in and ign countries ("APPLICATION
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Client Docket No. 403051-US-NP Attorney Docket No.: MS1-9107US

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Inventof's Signature

Boris BOBROV

Printed Name in English

Date

Printed Nåme in Native Language

(if other than English)