

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6659722

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSOFT TECHNOLOGY LICENSING, LLC
<b>Street Address:</b>	ONE MICROSOFT WAY
<b>City:</b>	REMOND
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17232074
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	888-785-1482
<b>Email:</b>	usdoCKET@microsoft.com
<b>Correspondent Name:</b>	NEWPORT IP, LLC
<b>Address Line 1:</b>	1400 112TH AVE SE
<b>Address Line 2:</b>	SUITE 100
<b>Address Line 4:</b>	BELLEVUE, WASHINGTON 98004
<b>ATTORNEY DOCKET NUMBER:</b>	MS1-9107USC1
<b>NAME OF SUBMITTER:</b>	NOEMI TOVAR
<b>SIGNATURE:</b>	/Noemi Tovar/
<b>DATE SIGNED:</b>	04/15/2021

PATENT

**Total Attachments: 14**

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PATENT ASSIGNMENT

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

I Amol Ashok AMBARDEKAR ("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 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on January 26, 2018 and given Application No. 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;

was filed on \_\_\_\_\_ and was given Application No. \_\_\_\_\_ 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;

Application No.	Filing Date	Office

PATENT ASSIGNMENT

Client Docket No.: 403051-US-NP  
Attorney Docket No.: MSI-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"));

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).

<u>A.A. Ambardekar.</u> Inventor's Signature	<u>01/25/2018</u> Date
<u>Amol Ashok AMBARDEKAR</u> Printed Name in English	<u>अमोल अशोक आंबर्डेकर.</u> Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

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

I Aleksandar TOMIC ("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:

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


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<u><i>Tomic</i></u> Inventor's Signature	<u>1/26/2018</u> Date
<u>Aleksandar TOMIC</u> Printed Name in English	<u>Aleksandar Tomic</u> Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

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

I **Chad Balling McBRIDE** (“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:

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


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 Inventor's Signature	<u>1/26/18</u> Date
<u>Chad Balling McBRIDE</u> Printed Name in English	 Printed Name in Native Language (if other than English)



PATENT ASSIGNMENT

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

I George PETRE ("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:

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Attorney Docket No.: MSI-9107US


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<u><i>gpetre</i></u> Inventor's Signature	<u>1/25/2018</u> Date
<u>George PETRE</u> Printed Name in English	<u></u> Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

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

I Kent D. CEDOLA ("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:

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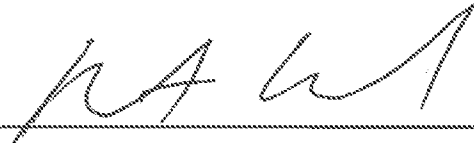
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Client Docket No.: 403051-US-NP  
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	<u>Jan 25, 2012</u>
Inventor's Signature	Date
<u>Kent D. CEDOLA</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

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:

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 _____ Inventor's Signature	<u>1/25/2018</u> _____ Date
<u>Larry Marvin WALL</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

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

I Boris BOBROV ("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:

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	<u>01/26/2018</u>
Inventor's Signature	Date
<u>Boris BOBROV</u>	<u>Борис Бобров</u>
Printed Name in English	Printed Name in Native Language (if other than English)