

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XINDI ZHANG	08/21/2019
BORIS SHULMAN	08/20/2019
ALEXANDER ALPEROVICH	08/20/2019
PATRICK CHUNG	09/11/2019
RECEIVING PARTY DATA	
Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
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Internal Address:	C/O MICROSOFT CORPORATION
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16547399
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<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>	
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Correspondent Name:	MICROSOFT CORPORATION
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Address Line 4:	REDMOND, WASHINGTON 98052
ATTORNEY DOCKET NUMBER:	407050-US-NP
NAME OF SUBMITTER:	JEFFREY R. SADLOWSKI
SIGNATURE:	/Jeffrey R. Sadlowski/
DATE SIGNED:	09/11/2019
Total Attachments: 8	
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source=407050-US-NP-Assignment-MTL-SHULMAN-Signed-#page1.tif
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source=407050-US-NP-Assignment-MTL-ZHANG-Signed-#page1.tif
source=407050-US-NP-Assignment-MTL-ZHANG-Signed-#page2.tif

I Alexander ALPEROVICH ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Dynamic Scaling for Data Processing Streaming System" ("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 August 21, 2019 and given Application No. 16/547,399 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

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>2013-08-20</u>
Inventor's Signature	Date
Alexander ALPEROVICH	
Printed Name in English	Printed Name in Native Language (if other than English)

I Patrick CHUNG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Dynamic Scaling for Data Processing Streaming System" ("APPLICATION"), which:

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Application No.	Filing Date	Office

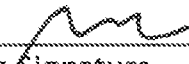
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	9/11/2019
Inventor's Signature	Date
Patrick CHUNG	
Printed Name in English	Printed Name in Native Language (if other than English)


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 Inventor's Signature	<u>8/20/2013</u> Date
Boris SHULMAN Printed Name in English	 Printed Name in Native Language (if other than English)

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	Aug 21st, 2019
Inventor's Signature	Date
Xindi ZHANG	张·V· ^W · ^K · ^H
Printed Name in English	Printed Name in Native Language (if other than English)