

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5006427

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GANESH ANANTHANARAYANAN	12/16/2017
MATTHAI PHILIPOSE	02/21/2018
PETER BODIK	01/17/2018
CHIEN-CHUN HUNG	05/18/2018
PARAMVIR BAHL	03/27/2018
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:	15844278
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	usdocket@microsoft.com
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER P.A.
Address Line 1:	PO BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402-0938
ATTORNEY DOCKET NUMBER:	402854-US-NP 1777.336US1
NAME OF SUBMITTER:	JACQUELINE PENNINGTON
SIGNATURE:	/ Jacqueline Pennington /
DATE SIGNED:	06/14/2018
Total Attachments: 11	
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 402854-US-NP (1777.336US1)

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):

Ganesh Ananthanarayanan, Matthai Philipose, Peter Bodik, Chien-Chun Hung, Paramvir Bahl

Additional name(s) of conveying party(ies) attached?

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: ~~December 16, 2017, February 21, 2018, January 17, 2018, May 18, 2018, March 27, 2018~~

2. Name and address of receiving party(ies):

Name: Microsoft Technology Licensing, LLC

Street Address: One Microsoft Way

City: Redmond State: WA Zip: 98052

Country: United States of America

Additional name(s) & address(es) attached? Yes No

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. 15/844,278

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joshua E. Garfield

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

Enclosed

Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. 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.

Joshua E. Garfield/Reg. No. 58,416

Name of Person Signing

/Joshua E. Garfield/

Signature

June 13, 2018

Date

Total number of pages including cover sheet: 11

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

PATENT
REEL: 046085 FRAME: 0543

I Ganesh Ananthanarayanan (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “PROCESSING LIVE VIDEO STREAMS OVER HIERARCHICAL CLUSTERS”, 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 December 15, 2017 and was given Application No 15/844,278 by the following Office “US Patent 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).

	16 th Dec 2017
_____ Inventor's Signature	_____ Date
_____ Ganesh Ananthanarayanan	_____
Printed Name in English	Printed Name in Native Language (if other than English)

I Matthal Philipose ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROCESSING LIVE VIDEO STREAMS OVER HIERARCHICAL CLUSTERS", which:

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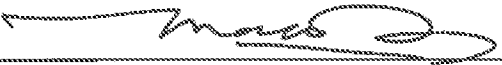
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	2 / 21 / 2018
Inventor's Signature	Date
Matthai Philipose	
Printed Name in English	Printed Name in Native Language (if other than English)

I Peter Bodik ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROCESSING LIVE VIDEO STREAMS OVER HIERARCHICAL CLUSTERS", which:

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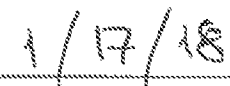
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_____ Inventor's Signature	_____ Date
 Peter Bodik	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Chien-Chun Hung ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROCESSING LIVE VIDEO STREAMS OVER HIERARCHICAL CLUSTERS", which:

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	5/18/2018
Inventor's Signature	Date
Chien-Chun Hung	洪健淳
Printed Name in English	Printed Name in Native Language (if other than English)

I Paramvir Bahl ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROCESSING LIVE VIDEO STREAMS OVER HIERARCHICAL CLUSTERS", 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;

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	March 27, 2018
_____ Inventor's Signature	_____ Date
Paramvir Bahl	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)