

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	RICHARD CLIVE IRELAND	11/27/2018
RECEIVING PARTY DATA		
Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	5600 148TH AVE NE	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16202697
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:	P.O. BOX 2938	
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402-0938	
ATTORNEY DOCKET NUMBER:	405069-US-NP/1777.A04US1	
NAME OF SUBMITTER:	TYLYN MOORE	
SIGNATURE:	/tylyn moore/	
DATE SIGNED:	11/29/2018	
Total Attachments: 3		
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Atty Ref/Docket No.: 405069-US-NP (1777.A04US1)

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):

Richard Clive Ireland

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

[] Yes [X] No

3. Nature of conveyance:

[X] Assignment

[] Merger

[] Security Agreement [] Change of Name

[] Other

Execution Date: November 27, 2018

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

Name: Microsoft Technology Licensing, LLC

Street Address: 5600 148th Ave NE

City: Redmond State: WA Zip: 98052

Country: United States of America

Additional name(s) & address(es) attached? [] Yes [X] 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. 16/202,697

Additional numbers attached? [] Yes [X] No

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

Name: Kenneth N. Nigon

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.

Kenneth N. Nigon/Reg. No. 31,549

Name of Person Signing



Signature

November 28, 2018

Date

Total number of pages including cover sheet: 3

Mail documents to be recorded with required cover sheet information to:

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PATENT
REEL: 047617 FRAME: 0047

I Richard Clive Ireland ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EFFICIENT METRIC CALCULATION WITH RECURSIVE DATA PROCESSING", 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 28 November 2018 and given Application No. 16/202,697 by the following Office United States Patent Office) this APPLICATION's Application No., filing date, and Office, when known:

☐ was filed on _____ and was given Application No. _____ by the following Office "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).

	<u>27/Nov/2018</u>
Inventor's Signature	Date
Richard Clive Ireland	
Printed Name in English	Printed Name in Native Language (if other than English)