

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NATHAN WIEBE	09/18/2014
MARTIN ROETTELER	09/18/2014
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<b>Postal Code:</b>	98052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15316500
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<b>ATTORNEY DOCKET NUMBER:</b>	3382-93053-05
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<b>DATE SIGNED:</b>	06/28/2017
<b>Total Attachments: 4</b>	
source=Assignment - Inventors to MC 3382-93053-05#page1.tif	
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source=Assignment - Inventors to MC 3382-93053-05#page4.tif	

### PATENT ASSIGNMENT

I, Nathan Wiebe ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "QUANTUM ALGORITHMS FOR ARITHMETIC AND FUNCTION SYNTHESIS" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Klarquist Sparkman, LLP, 121 SW Salmon Street, Suite 1600, Portland, OR 97204, who are associated with customer number 26119, (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on \_\_\_\_\_, and given Application No. \_\_\_\_\_ by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;

was filed on 62/009,066 and was given Application No. June 6, 2014 by the following Office "United States Patent and Trademark Office";


Microsoft Corporation, a Washington Corporation, 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>18/9/14</u>
Inventor's Signature	Date
<u>Nathan Wiebe</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

**PATENT ASSIGNMENT**

I, Martin Roetteler ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "QUANTUM ALGORITHMS FOR ARITHMETIC AND FUNCTION SYNTHESIS" ("APPLICATION"), which:

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Inventor's Signature	Date
Martin Roetteler	
Printed Name in English	Printed Name in Native Language (if other than English)