

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NORTHROP GRUMMAN SYSTEMS CORPORATION	04/04/2017
RECEIVING PARTY DATA	
Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
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State/Country:	WASHINGTON
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PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	15425966
Application Number:	15424832
Application Number:	15425989
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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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NAME OF SUBMITTER:	KATHERINE WILSON
SIGNATURE:	/Katherine Wilson/
DATE SIGNED:	04/11/2017
Total Attachments: 2	
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source=NG-to-MS-Assignment#page2.tif	

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the acceptance of which is hereby acknowledged by Northrop Grumman Systems Corporation, a Delaware corporation, having its principal place of business at 2980 Fairview Park Drive, Falls Church, VA 22042-4511 ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Microsoft Corporation, having an office at One Microsoft Way, Redmond, Washington 98052 ("**Assignee**"), all of Assignor's right, title, and interest in and to the following (collectively, the "**Assigned Patent Rights**");

(a) the patent applications listed in the table below (the "**Patent Applications**");

<u>Patent Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent Application</u>
15/425,966	United States	February 6, 2017	Josephson transmission line for superconducting devices
15/424,832	United States	February 4, 2017	Superconducting circuits based devices and methods
15/425,989	United States	February 6, 2017	Superconducting devices with enforced directionality

(b) any and all reissues, reexaminations, extensions, continuations, continuing prosecution application, patents and applications claiming priority to or from the Patent Applications, requests for continuing examinations, divisions, and registrations of any of the Patent Applications, and any foreign counterparts to any of the foregoing; and

(c) causes of action and enforcement rights of any kind under, or on account of, any patents issuing from the Patent Applications, including, without limitation, all causes of action, enforcement rights and all other rights to seek and obtain any other remedies of any kind for past, current and future infringement.

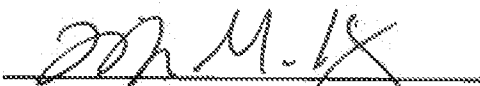
Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the Assignee to the entire interest therein. This Assignment of Patent Rights will inure for the benefit of any permitted successors or assigns of Assignee.

Assignor will, at the reasonable request of Assignee, do all things necessary and proper, to confirm the assignment to Assignee of the Assigned Patent Rights pursuant to this Assignment of Patent Rights, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining and perfecting the Assigned Patent Rights.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed on April 4, 2017.

ASSIGNOR:

Northrop Grumman Systems Corporation

By: 

Name: Tiffany M. King

Title: Assistant Secretary