

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5751748

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NORTHROP GRUMMAN SYSTEMS CORPORATION	09/24/2019
RECEIVING PARTY DATA	
Name:	MICROSOFT CORPORATION
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State/Country:	WASHINGTON
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16559874
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NAME OF SUBMITTER:	KATHERINE WILSON
SIGNATURE:	/Katherine Wilson/
DATE SIGNED:	10/03/2019
Total Attachments: 2	
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source=Assignment-NGC-MC#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>
16/269,739	United States	February 7, 2019	SUPERCONDUCTING CIRCUIT FOR PROCESSING INPUT SIGNALS
16/285,922	United States	February 26, 2019	USING A MAGNETIC JOSEPHSON JUNCTION DEVICE AS A PI INVERTER
16/509,020	United States	July 11, 2019	SYSTEMS FOR PROBING SUPERCONDUCTING CIRCUITS INCLUDING THE USE OF A NON-MAGNETIC CRYOGENIC HEATER
16/559,874	United States	September 4, 2019	SUPERCONDUCTING CIRCUIT WITH VIRTUAL TIMING ELEMENTS AND RELATED METHODS

(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.

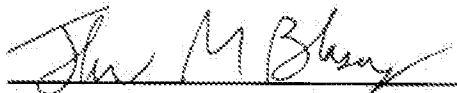
Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, 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 24 Sept., 2019.

ASSIGNOR:

Northrop Grumman Systems Corporation

By: 

Name: Thomas M. Blasey

Title: Authorized Officer