504101115 11/17/2016

PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER F. KIRBY	11/10/2016
MICHAEL RENNIE	11/10/2016
DANIEL J. O'DONNELL	11/10/2016

RECEIVING PARTY DATA

Name:	NORTHROP GRUMMAN SYSTEMS CORPORATION
Street Address:	2980 FAIRVIEW PARK DRIVE
City:	FALLS CHURCH
State/Country:	VIRGINIA
Postal Code:	22042-4511

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15351755

CORRESPONDENCE DATA

Fax Number: (216)621-4072

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.

Phone: 216.621.2234
Email: rkline@tarolli.com

Correspondent Name: CHRISTOPHER P. HARRIS

Address Line 1: TAROLLI, SUNDHEIM, COVELL & TUMMINO, LLP

Address Line 2: 1300 EAST NINTH STREET, SUITE 1700

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER: NG(ES)025983 US PRI

NAME OF SUBMITTER: CHRISTOPHER P. HARRIS

SIGNATURE: /Christopher P Harris/

DATE SIGNED: 11/17/2016

Total Attachments: 2

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PATENT 504101115 REEL: 040360 FRAME: 0826

ASSIGNMENT

WHEREAS, I, Christopher F. Kirby, together with Michael Rennie and Daniel J. O'Donnell, hereinafter referred to as Assignor have jointly invented certain new and useful improvements in A METHOD OF MAKING A SUPERCONDUCTOR DEVICE, described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Systems Corporation, a Delaware corporation, having its principal place of business at 2980 Fairview Park Drive, Falls Church, VA 22042-4511, United States of America, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman Systems Corporation, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged. Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters patent that may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent that may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent that may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignce, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Grumman Systems Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same right could have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignee with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

	WHEREOF, the									<u> </u>	day c	of
November, 2016,	and has executed	the referenced	pate	nt applicati	ion on	164 10T	[™] day	of	<u>vetbex</u>	, 20	16.	
					Market and the second	A CONTRACT OF STREET	<u> </u>	<u> </u>	Alexander,			
					CHR	STOPHER	F. KIR	BY ,)			

A notary public or other officer completing this certificate verifies only the identity of to which this certificate is attached, and not the truthfulness, accuracy, or validity of that	
STATE OF Karyland	
COUNTY OF Oxle Oriendel	
On KOVEMBER 10, 2016 The before me, Young G. Share E. F. KIRBY, proved to me on the basis of satisfication evidence to be the person(s) whose and acknowledged to me that he/she/they executed the same in his/her/their authorisignature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s).	name(s) is/are subscribed to this instrument ized capacity(ies), and that by his/her/their
I certify under PENALTY OF PERJURY under the laws of the State of YKLLY 40 and correct.	10d—that the foregoing paragraph is true
WITNESS my hand and official seal.	
WARY JUSTANLEY	

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Signature ARROLL COUN

MY COMMISSION EXPIRES AUGUST 9, 2018

PATENT REEL: 040360 FRAME: 0827

IN WITNESS WHEREOF, the undersigned has executed and delivered this November 2016, and has executed the referenced patent application on the 1018 defined the referenced th	instrument this <u>12.74</u> day of ay of
A notary public or other officer completing this certificate verifies only the identity of the to which this certificate is attached, and not the truthfulness, accuracy, or validity of that doc	
COUNTY OF COUNCE COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNCE COUNTY OF CO	s) is/are subscribed to this instrument and ics), and that by his/her/their signature(s)
I certify under PENALTY OF PERJURY under the laws of the State of Waky Carand correct.	<u>≻C</u> that the foregoing paragraph is true
WITNESS my hand and official seal.	
MASTAL SEANLEY Neary & Signaroll Coundy MARYLAND MY COMMISSION EXPIRES AUGUST 9, 2018	(SEAL)
IN WITNESS WHEREOF, the undersigned has executed and delivered this Markett has 2016, and has executed the referenced patent application on the 104k delivered. DANIEL LOTOONN	ny of <u>Novembor</u> , 2016.
A notary public or other officer completing this certificate verifies only the identity of the to which this certificate is attached, and not the truthfulness, accuracy, or validity of that doc	e individual who signed the document cument.
COUNTY OF COUNTY	
his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of instrument.	
I certify under PENALTY OF PERJURY under the laws of the State of May and correct.	22-that the foregoing paragraph is true
WITNESS my hand and official seal.	
CHARTLE CONTROL OF THE CONTROL OF TH	(SEAL)
MY COMMISSION EXPIRES AUGUST 9, 2018	PATENT

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RECORDED: 11/17/2016

PATENT REEL: 040360 FRAME: 0828