

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4334734

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CYRUS DHALLA	03/22/2017
JONATHAN KRAUSS	03/21/2017
SCOTT M. TAKAHASHI	03/21/2017
GERALD R. FISCHER	03/21/2017
DOUGLAS S. COCKFIELD	03/21/2017
AKOP GAZDZHIAN	03/21/2017
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:	15468198
CORRESPONDENCE DATA	
Fax Number:	(312)346-2810
<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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Correspondent Name:	PATTI & MALVONE LAW GROUP, LLC
Address Line 1:	ONE NORTH LASALLE ST., 44TH FLOOR
Address Line 4:	CHICAGO, ILLINOIS 60602
ATTORNEY DOCKET NUMBER:	NGC-487/008552-0030
NAME OF SUBMITTER:	CARMEN B. PATTI
SIGNATURE:	/Carmen B Patti/
DATE SIGNED:	03/24/2017
Total Attachments: 7	

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ASSIGNMENT

WHEREAS, I, Cyrus Dhalla, hereinafter referred to as Assignor together with Jonathan Krauss, Scott M. Takahashi, Gerald R. Fischer, Douglas S. Cockfield and Akop Gazdzhyan have jointly invented certain new and useful improvements in CLOCK AND FRAME SYNCHRONIZATION CARRIED AS A SINGLE COMPOSITE SIGNAL ALLOWS THE USE OF A SINGLE TRANSMISSION LINE WITH A NARROWER BANDWIDTH 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:

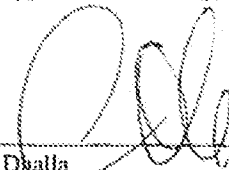
NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman Systems Corporation, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, 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 Assignee, 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.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 22 day of March, 2017, and has executed the referenced patent application on the 22 day of March, 2017.


Cyrus Dhalla

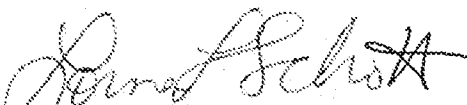
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

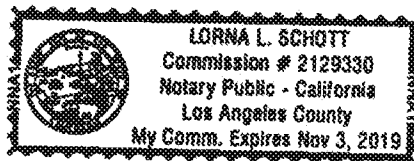
STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On March 22, 2017 before me, Lorna L. Schott, Notary Public, personally appeared Cyrus Dhalla proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

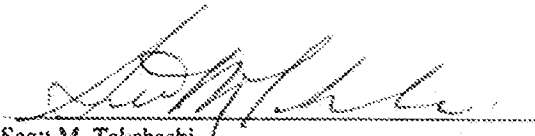
WITNESS my hand and official seal


Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 21 day of March, 2017, and has executed the referenced patent application on the 21 day of March, 2017.


Scott M. Takahashi

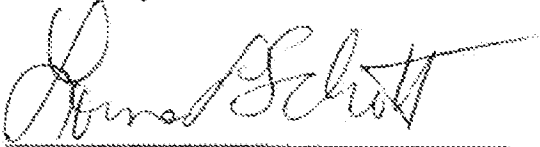
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STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

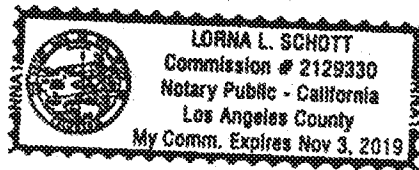
On March 21, 2017 before me, Lorna L. Schott, Notary Public, personally appeared Scott M. Takahashi, proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal



Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 21 day of March, 2017, and has executed the referenced patent application on the 21 day of March, 2017.

Akop Gazdzhyan
Akop Gazdzhyan

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

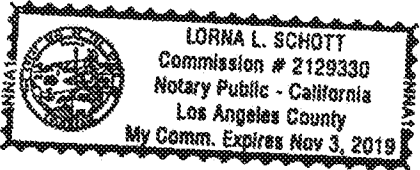
STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On March 21, 2017 before me, Lorna L. Schott, Notary Public, personally appeared Akop Gazdzhyan, proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/she/they executed the same in his/hers/their authorized capacity(ies), and that by his/hers/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

Lorna L. Schott
Notary's Signature



(Seal)