PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Daniel A. Tazartes	08/14/2006
Kenneth D. Marino	09/25/2006

RECEIVING PARTY DATA

Name:	NORTHROP GRUMMAN CORPORATION
Street Address:	1840 Century Park East
City:	Los Angeles
State/Country:	CALIFORNIA
Postal Code:	90067

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11528133

CORRESPONDENCE DATA

Fax Number: (714)427-7799

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 2: Suite 1400

Address Line 4: Costa Mesa, CALIFORNIA 92626

ATTORNEY DOCKET NUMBER:	54261-2200
NAME OF SUBMITTER:	Albin H. Gess

Total Attachments: 2

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\$40.00

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Notary's Signature

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ASSIGNMENT		
WHEREAS, I, <u>Daniel A. Tazartes</u> together with Kenneth D. Marino	, hereinafter referred to as Assignor	
have jointly invented certain new and useful improvements in PHOTONIC	CRYSTAL BASED ROTATION SENSOR	
(authorization is given herewith to insert the application serial number and fillr as U.S. Serial No. 11/528,133 filed on 9/27/2006;	ng date when it becomes available)	
described in an application for United States Letters Patent, executed by me on	the date as stated below;	
WHEREAS, Northrop Grumman Corporation, a Delaware corporation, Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, in, to and under said Improvements and said application:	having its principal place of business at 1840 Century s desirous of acquiring the entire right, title and interest	
NOW, THEREFORE, in consideration of Assignor's obligations to No	orthrop Grumman Corporation, and for other good and	

valuable consideration, the receipt and sufficiency 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 which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which 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 which 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 relssues 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 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 or 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 Assignor 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,

AUGUST, 2006, and has executed the referenced patent	d and delivered this instrument this 14th day of application on the 4th day of August
0	Mariel A. Jesites
STATE OF LATIFORNIA	Daniel A: Tazartes
COUNTY OF LOS ANGELES 385	
On AUGUST MANS before me, LAURA- / E16H SAGE, 1	and the second s
satisfactory evidence to be the person(s) whose name(s) is/are subscrib executed the same in his/her/their authorized capacity(ies), and that by hor the entity upon behalf of which the person(s) acted, executed the instr	ed to this instrument and acknowledge to me that he/shether
WITNESS my hand and official seal	
Laver Leigh Sage	LAURA LEIGH SAGE Commission # 1 613872

PATENT REEL: 019315 FRAME: 0452

Motary Public - California Los Angeles County My Comm. Expires Oct 17, 200 (Seal)

IN WITNESS WHEREOF, the undersigned has executed the referenced pa 20_06.	cuted and delivered this instrument this day of tent application on the29th_ day of _August,
	Kennety D. Marino
STATE OF (CA) (CANON)	1
COUNTY OF (butter Clock 12) ss	
On Setular 2 306 before me, Renneth D. Marino satisfactory evidence to be the person(e) whose name(s) is/are sub executed the same in his/her/their authorized capacity(iee), and that or the entity upon behalf of which the person(s) acted, executed the	scribed to this instrument and acknowledge to me that he/she/they t by his/her/their signature(s) on the instrument to be the person(s),
WITNESS by harper and official seal	ROBERT STROBEL
Notary's Signature	Commission # 1622176 Notary Public - California Contra Costa County My Comm. Expires Nov 15, 2009 (Seal)

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RECORDED: 05/18/2007