

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Henry C. Abbink	05/12/2006
Gabriel M. Kuhn	05/09/2006
Howard Ge	05/10/2006
Daryl Sakaida	05/09/2006
<b>RECEIVING PARTY DATA</b>	
Name:	NORTHROP GRUMMAN CORPORATION
Street Address:	1840 Century Park East
City:	Los Angeles
State/Country:	CALIFORNIA
Postal Code:	90067
<b>PROPERTY NUMBERS Total: 3</b>	
Property Type	Number
Application Number:	60684431
Application Number:	11914932
PCT Number:	US0620084
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(714)427-7799
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	714-427-7020
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Correspondent Name:	Albin H. Gess, SNELL & WILMER LLP
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Address Line 4:	Costa Mesa, CALIFORNIA 92626
ATTORNEY DOCKET NUMBER:	54261-1800

CH \$120.00 60684431

**500406582**

**PATENT**  
**REEL: 020167 FRAME: 0222**

NAME OF SUBMITTER:

Albin H. Gess

Total Attachments: 3

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## ASSIGNMENT

WHEREAS, I, Henry C. Abbink, hereinafter referred to as Assignor  
together with Gabriel M. Kuhn, Howard Ge, and Daryl Sakaida  
have jointly invented certain new and useful improvements in METHOD FOR OPTIMIZING DIRECT WAFER BOND LINE WIDTH  
FOR REDUCTION OF PARASITIC CAPACITANCE IN MEMS ACCELEROMETERS  
(authorization is given herewith to insert the application serial number and filing date when it becomes available)  
as U.S. Serial No. 11/914,932 filed on November 19, 2007; PCT Serial No. PCT/US06/20084 filed on May 24, 2006; and U.S. Serial  
No. 60/684,431 filed on May 25, 2005  
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, having its principal place of business at 1840 Century  
Park East, Los Angeles, California 90067, 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 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 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 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.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 12<sup>th</sup> day of MAY, 2006, and has executed the referenced patent application on the 12<sup>th</sup> day of MAY, 2006.

Henry C. Abbink  
Henry C. Abbink

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) ss

On MAY 12, 2006 before me, LAURA LEIGH SAGE, Notary Public, personally appeared HENRY C. ABBINK, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge 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.

WITNESS my hand and official seal

Laura Leigh Sage  
Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 9<sup>th</sup> day of MAY, 2006, and has executed the referenced patent application on the 9<sup>th</sup> day of MAY, 2006.

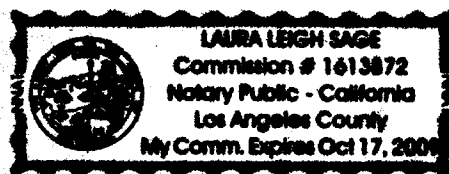
Gabriel M. Kuhn  
Gabriel M. Kuhn

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES ) ss

On MAY 9, 2006 before me, LAURA LEIGH SAGE, Notary Public, personally appeared \_\_\_\_\_, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge 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.


WITNESS my hand and official seal

Laura Leigh Sage  
Notary's Signature



(Seal)

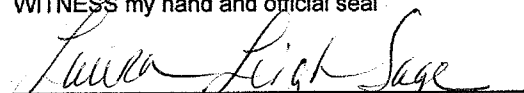
IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 10<sup>th</sup> day of MAY, 2006, and has executed the referenced patent application on the 10<sup>th</sup> day of MAY, 2006.

  
Howard Ge

STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES <sup>ss</sup>

On MAY 10, 2006 before me, LAURA LEIGH SAGE, Notary Public, personally appeared HOWARD GE, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge 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.

WITNESS my hand and official seal

  
Notary's Signature



(Seal)

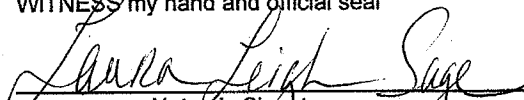
IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 9<sup>th</sup> day of MAY, 2006, and has executed the referenced patent application on the 9<sup>th</sup> day of MAY, 2006.

  
Daryl Sakaida

STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES <sup>ss</sup>

On MAY 9, 2006 before me, LAURA LEIGH SAGE, Notary Public, personally appeared DARYL SAKAIDA, personally known to me – or – proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledge 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.

WITNESS my hand and official seal

  
Notary's Signature



(Seal)