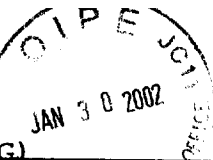


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Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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RECORDATION FORM CO  
PATENTS CCOMMERCE  
Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

- 1. David A. Luippold
- 2. Mark D. Brown
- 3. John W. Tully

1-30-02

## 2. Name and address of receiving party(ies)

Name: Northrop Grumman CorporationInternal Address: 1840 Century Park EastLos Angeles, CA90067-2199Street Address: See aboveCity Los Angeles State: CA Zip 90067-  
2199Additional name(s) & address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other \_\_\_\_\_

Luippold and Brown: 12/19/2001;  
Execution Date: Tully 11/19/2001.

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

09/952,069

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Northrop Grumman CorporationInternal Address: 1840 Century Park EastLos Angeles, CA 90067-2199Street Address: See above.6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

14-1325

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Marlene Klein

Name of Person Signing

Marlene Klein

Signature

01/04/2002

Date

Total number of pages including cover sheet, attachments, and documents: 7Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 012548 FRAME: 0096

Whereas, I, David Arthur Luippold, hereinafter referred to as Assignor  
together with John Wilbur Tully and Mark David Brown

have jointly invented certain new and useful improvements in HIGHLY CONDUCTIVE THERMOPLASTIC  
ELASTOMER (TPE) GAP FILLER.

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 principle 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, 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 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 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 might 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 19th day of December, 2001, and has executed the referenced patent application on the 19th day of December, 2001.

David Arthur Luippold  
(Assignor) David Arthur Luippold

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On December 19, 2001 before me,  
Evelyn Snyder, Notary Public personally appeared  
David Arthur Luippold, ~~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 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 the person ~~(s)~~ or the entity upon behalf of which the person ~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal



Signature Evelyn Snyder  
(Seal)

Whereas, I, Mark David Brown, hereinafter referred to as Assignor  
together with David Arthur Luippold and John Wilbur Tully  
have jointly invented certain new and useful improvements in HIGHLY CONDUCTIVE THERMOPLASTIC  
ELASTOMER (TPE) GAP FILLER.

described in an application for United States Letters Patent, executed by me on the date as stated below;

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NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, 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 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 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 might 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.

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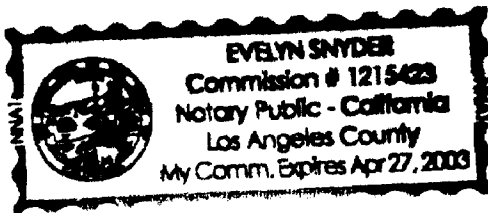
Mark D. Brown

(Assignor) Mark David Brown

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On December 19, 2001 before me,  
EVELYN SNYDER, NOTARY PUBLIC personally appeared  
Mark David Brown, ~~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 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 the person~~s~~, or the entity upon behalf of which the person~~s~~ acted, executed the instrument.

WITNESS my hand and official seal



Signature Evelyn Snyder  
(Seal)

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together with David Arthur Luippold and Mark David Brown  
have jointly invented certain new and useful improvements in HIGHLY CONDUCTIVE THERMOPLASTIC  
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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 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 might or could have been held and enjoyed by Assignor had this assignment not been made.

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IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 19 day of November, 2001, and has executed the referenced patent application on the 19 day of November, 2001

John Wilbur Tully  
(Assignor) John Willard Tully  
WILBUR QUD.

STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES) ss

On NOVEMBER 19, 2001 before me,  
STEVEN C. SHINN JR. personally appeared  
John Willard Tully, 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 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 the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature Steven C. Shinn Jr.  
(Seal)

