| RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the new suddress(e) below. 1. Name of conveying party(ies) JOHN M. KELLEY Additional name(s) of conveying party(ies) attached? Yes No Name: The United States of America as Represented by the Internal Address; Secretary of the Navy Office of Counsel Alth: Code OOCCIP | Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) | U.S. DEPARTMENT OF COMMERCE United States Paterit and Trademark Offi |
|--|---|--|
| To the Director of the U.S. Patent and Trademark Office: Please record the attached decuments or the new address(es) below. 1. Name of conveying party(ies) JOHN M. KKILEY Additional name(s) of conveying party(ies) attached? Yes Name: The United States of America as Represented by the Internal Address: Secretary of the Navy Office of Counsel Office of Counsel Office of Counsel | RECORDATION FORM COVER SHEET | |
| 1. Name of conveying party(ies) JOHN M. KELLEY Additional name(s) of conveying party(ies) attached? Yes Name: The United States of America as Represented by the Internal Address: Secretary of the Navy Office of Counsel Attr: Code OOCCIP | PATEN1 | rs only ។ ୬,୬୯୬ |
| Name: The United States of America as Represented by the Internal Address: Secretary of the Navy Office of Counsel Attn: Code OOCCIP | To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. | |
| Internal Address; Secretary of the Navy | 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) |
| Additional name(s) of conveying party(ies) attached? Ves \ No Nature of conveyance/Execution Date(s): Execution Date(s) | JOHN M. KELLEY | Name: The United States of America as Represented by the |
| Additional name(s) of conveyance/Execution Date(s): Execution Date(s). 9/3/2008 Assignment | | Internal Address: Secretary of the Navy |
| Street Address: Ballston Tower One | | Office of Counsel Attn: Code OOCCIP |
| Execution Date(s)9/3/2008 | | -1 |
| Assignment | - , | |
| State: Virginia State: Vir | <u> </u> | 800 North Quincy Street |
| Government Interest Assignment Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? very No B. Patent No.(s) 12/284,476 Additional numbers attached? very No 5. Name and address to whom correspondence concerning document should be mailed: Name: | Security Agreement Change of Name | City: Arlington |
| Country: United States | Joint Research Agreement | State: Virginia |
| Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? Yes | Government Interest Assignment | Country: United States 7in: 22217-5660 |
| 4. Application or patent number(s): A. Patent Application No.(s) 12/284,476 Additional numbers attached? Yes \(\subseteq \) No 5. Name and address to whom correspondence concerning document should be mailed: Name: \(\text{Department of the Navy} \) Internal Address: \(\text{Office of Counsel} \) Street Address: \(\text{3824 Strauss Ave Suite 103} \) Street Address: \(\text{3824 Strauss Ave Suite 103} \) State: \(\text{Maryland} \) State: \(\text{Maryland} \) State: \(\text{Maryland} \) State: \(\text{Maryland} \) State: \(\text{301-744-5603} \) Fax Number: \(\text{301-744-4423} \) Email Address: \(\text{fredric zimmerman@navy.mil} \) 9. Signature: This document is being filed together with a new application on the self-state of the New application of the self-state of the No.(s) Additional numbers attached? Yes \(\subseteq \) No Additional number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \(\subseteq \text{4.0.00} \) Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman Date Color Reg. 20 8 Date Total number of pages including cover 3 | Executive Order 9424, Confirmatory License | Zip. 22217-3335 |
| A. Patent Application No.(s) 12/284,476 Additional numbers attached? Yes Yes | Other | Additional name(s) & address(es) attached? Yes V |
| Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: Name: Department of the Navy Internal Address: Office of Counsel Street Address: 3824 Strauss Ave Suite 103 City: Indian Head State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric zimmerman@navy.mil 9. Signature: Additional numbers attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman Authorized User Name Fredric J. Zimmerman Signature Fredric J. Zimmerman, Reg. No. 48,747 Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed Deposit Account Numbers Expiration Date Date Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman Date | 4. Application or patent number(s): | document is being filed together with a new application |
| Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: Name: Department of the Navy Internal Address: Office of Counsel Street Address: 3824 Strauss Ave Sulte 103 City: Indian Head State: Maryland State: Maryland Fax Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil Additional numbers attached? Yes No. 48,747 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman 18 October 208 Signature Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged by credit card Description Date 18 October 208 Signature Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized User Numbers 18 Payment Information 19 Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman 18 October 208 Total number of applications and patents 19 Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman | A. Patent Application No.(s) | B. Patent No.(s) |
| 5. Name and address to whom correspondence concerning document should be mailed: Name:Department of the Navy | 12/284,476 | |
| 5. Name and address to whom correspondence concerning document should be mailed: Name:Department of the Navy | | |
| Involved: _1 Inv | Additional numbers at | I tached? |
| Internal Address: Office of Counsel Street Address: 3824 Strauss Ave Suite 103 City: Indian Head State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric zimmerman@navy.mil P. Total ree (37 CFR 1.21(ft) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman Oate Fredric J. Zimmerman, Reg. No. 48,747 Total number of pages including cover | - | • |
| Internal Address: Office of Counsel Street Address: 3824 Strauss Ave Suite 103 City: Indian Head State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric zimmerman@navy.mil 9. Signature: Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman Oate Fredric J. Zimmerman, Reg. No. 48,747 Total number of pages including cover 3 | Name: Department of the Navy | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 |
| Street Address: 3824 Strauss Ave Suite 103 City: Indian Head State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil 9. Signature: Fredric J. Zimmerman, Reg. No. 48,747 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 50-1114 Authorized User Name Fredric J. Zimmerman October 2008 Date | Internal Address: Office of Counsel | I — · · · · · · · · · · · · · · · · · · |
| Street Address: 3824 Strauss Ave Suite 103 Enclosed None required (government interest not affecting title) State: Indian Head State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric zimmerman@navy.mil Signature: | | 1 <u> </u> |
| None required (government interest not affecting title) State: Indian Head | Street Address: 3824 Strauss Ave Suite 103 | l — |
| State: Maryland Zip: 20640-5152 Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil 9. Signature: Signature Signature Color | | None required (government interest not affecting title) |
| Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil 9. Signature: Signature Signature Date | City: Indian Head | 8. Payment Information |
| Phone Number: 301-744-5603 Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil 9. Signature: / October 2008 Signature Fredric J. Zimmerman, Reg. No. 48,747 Total number of pages including cover 3 | State: Maryland Zip: 20640-5152 | |
| Fax Number: 301-744-4423 Email Address: fredric.zimmerman@navy.mil 9. Signature: Signature Signature | Phone Number: 301-744-5603 | · |
| Authorized User Name Fredric J. Zimmerman 9. Signature: Signature Authorized User Name Fredric J. Zimmerman | | b. Deposit Account Number 50-1114 |
| Signature Date Fredric J. Zimmerman, Reg. No. 48,747 Total number of pages including cover 3 | | Authorized User Name <u>Fredric J. Zimmerman</u> |
| Signature Date Fredric J. Zimmerman, Reg. No. 48,747 Total number of pages including cover 3 | 9. Signature: Aveda. Zaasa salaa | - 10 O-tolo 2008 |
| 1 Todalo 8: Zaminorman, registros: 40,1-41 | 4. Over 1000 000 over | |
| | | |

Documents to be recorded (Including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 021666 FRAME: 0968

ASSIGNMENT OF INVENTION

WHEREAS I, John M. Kelley of Owings, Md., while employed by the Government of the United States of America, hereinafter referred to as the Government, have made an invention entitled HIGH-PERFORMANCE SOLID-ROCKET PROPELLANTS AND METHODS OF UTILIZING THEM, identified as Navy Case No. 98,808 and described in application for Letters Patent of the United States of America as executed by myself on 9,2008; and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights; and

WHEREAS, the Government desires to obtain the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, the Government desires an option to obtain the foreign rights in and to the invention;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title, and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by myself had this assignment not been made.

I do hereby also grant to the Government, the option to take the entire right, title, and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to myself within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention; and that the rights in the foreign countries not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements or other instruments that may be necessary in the prosecution of the application and any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hands and affixed my seals.

<u>9/3/08</u>
Date

RECORDED: 10/10/2008

Signature: JOHN M. KELLEY

PATENT REEL: 021666 FRAME: 0969