

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4048573

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NICHOLAS MCGUIRE	03/20/2015
RODERICK DAEBELLIEHN	03/19/2015
GREGORY MARTIN	03/20/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AEROJET ROCKETDYNE, INC.
<b>Street Address:</b>	P.O. BOX 13222
<b>City:</b>	SACRAMENTO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95813-6000
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15125591
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	818-586-1377
<b>Email:</b>	joel.landau@rocket.com
<b>Correspondent Name:</b>	JOEL G LANDAU AEROJET ROCKETDYNE
<b>Address Line 1:</b>	PO BOX 7922
<b>Address Line 2:</b>	RLB70
<b>Address Line 4:</b>	CANOGA PARK, CALIFORNIA 91304
<b>ATTORNEY DOCKET NUMBER:</b>	AR100049; 67397-501PUS1
<b>NAME OF SUBMITTER:</b>	MATTHEW L. KOZIARZ
<b>SIGNATURE:</b>	/Matthew L. Koziarz/
<b>DATE SIGNED:</b>	09/13/2016
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**  
**(Joint Inventors)**

WHEREAS, we, **Nicholas McGuire** of P.O. Box 13222, Sacramento, CA 95813-6000; **Roderick Daebelliehn** of P.O. Box 13222, Sacramento, CA 95813-6000; and **Gregory Martin** of P.O. Box 13222, Sacramento, CA 95813-6000, (hereinafter referred to as Assignors), have invented new and useful improvements in:

**LIGHTWEIGHT MUNITION**

which is set forth in an application in the United States executed on even date herewith, which claims priority to U.S. Provisional Patent Application No. 61/968,092, filed March 20, 2014:

AND WHEREAS, **Aerojet Rocketdyne, Inc.**, (hereinafter referred to as Assignee), of **P.O. Box 13222, Sacramento, CA 95813-6000**, is desirous of acquiring the entire right, title and interest in and to said invention and said Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:


NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have assigned, sold and set over, and by these presents assign, sell and set over unto the Assignee, its successors, legal representatives and assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest in and to said invention, said application for Letters Patent, including the right to file foreign patent applications corresponding to said application, and the right to claim the priority date of said United States patent application and any legal equivalents thereof, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and to any and all divisions, continuations, and continuations-in-part of said application, or re-issues or extensions of said Letters Patent or Patents prepared and executed by the Assignors on even date herewith, the same to be held and enjoyed by the Assignee, as fully and entirely as the same would have been held by the Assignors had this Assignment and sale not been made.

AND the Assignor hereby covenants and agrees that the Assignors will at any time upon the request and at the expense of the Assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and the Assignors hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to the said Assignee in accordance with this Agreement.

The undersigned hereby authorize(s) the assignee to insert the application number and filing date of the above-noted international patent application into the following spaces, when known:

Int'l. Application No. PCT/US2015/021368 Int'l. Filing Date: March 19, 2015


Dated: 03/20/15

  
Nicholas McGuire

Dated: 19 MARCH 2015

  
Roderick Daebelliehn

Dated: 03-20-15

  
Gregory Martin

Please address all correspondence and telephone calls and, upon recordation, please return this document to:

CARLSON, GASKEY & OLDS, P.C.  
400 W. Maple, Suite 350  
Birmingham, MI 48009  
(248) 988-8360

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

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 )

County of Sacramento )

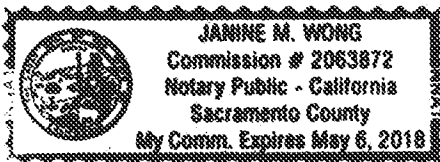
On 3/20/2015 before me, Janine M Wong Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Nicholas McGuire  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within 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.

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.



Signature [Signature]  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

Title or Type of Document: Assignment AR100049, 67397-501 PCT Document Date: \_\_\_\_\_

Number of Pages: 2 Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_

- ☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: [Signature]

Signer's Name: \_\_\_\_\_

- ☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

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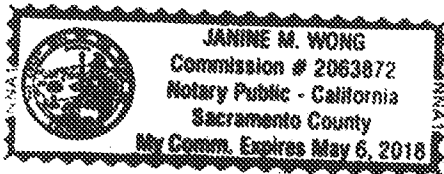
On 3/19/2015 before me, Janine M Wong Notary Public  
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personally appeared Roderick Daebelliehn  
Name(s) of Signer(s)

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☐ Partner — ☐ Limited ☐ General  
☒ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_  
Signer Is Representing: Self

Signer's Name: \_\_\_\_\_  
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☐ Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

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County of Sacramento

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Date

Here Insert Name and Title of the Officer

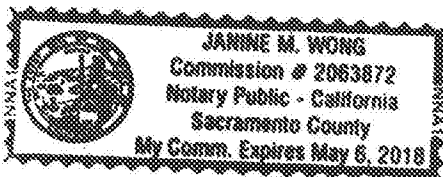
personally appeared Gregory Martin

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within 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.

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- ☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☒ Other: SUP

Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

- ☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

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