

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3874679

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID A ALVEN	04/30/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AEROJET ROCKETDYNE, INC.
<b>Street Address:</b>	2001 AEROJET ROAD
<b>City:</b>	RANCHO CORDOVA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95742
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14195033
<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>Email:</b>	joel.landau@rocket.com
<b>Correspondent Name:</b>	JOEL G LANDAU
<b>Address Line 1:</b>	PO BOX 7922
<b>Address Line 2:</b>	RLB70
<b>Address Line 4:</b>	CANOGA PARK, CALIFORNIA 91304
<b>NAME OF SUBMITTER:</b>	JOEL G LANDAU
<b>SIGNATURE:</b>	/JGL/
<b>DATE SIGNED:</b>	05/16/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

WHEREAS, I, David A. Alven, residing at 3907 Wayland Boulevard, Johnson City, TN 37604; have invented certain new and useful improvements in Method for Producing a Fragment / Reactive Material Assembly for which I:

have filed a provisional application for Letters Patent of the United States on March 15, 2013 under Serial No. 61/788,608; and

WHEREAS, Aerojet Rocketdyne, Inc. organized under the laws of the State of Ohio, is desirous of obtaining the entire right, title, and interest in, to and under the improvements and the application;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Aerojet Rocketdyne, Inc., its successors, legal representatives, and assigns the entire right, title, and interest in, to and under the improvements, and the application and all divisions, renewals, and continuations thereof, and all Letters Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patents which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents 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 Patents for said improvements to Aerojet Rocketdyne, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

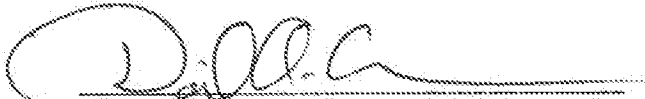
AND I HEREBY further covenant and agree that I will communicate to Aerojet

Rocketdyne, Inc., its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and generally do everything possible to aid Aerojet Rocketdyne, Inc. its successors, legal representatives and assigns to obtain and enforce proper patent protection for said improvements in all countries.

AND I HEREBY further assign and transfer to Aerojet Rocketdyne, Inc. all priority rights derived from such application therefore by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International convention and I do hereby assign and transfer to Aerojet Rocketdyne, Inc. the sole right to file further applications for patents under the patent laws of any country of the world based on any improvements disclosed in said application as fully and entirely as the same would have been held by me had this assignment not been made.

IN TESTIMONY WHEREOF, I hereunto set our hands and seals the day and year set opposite our respective signatures.

Date: 9/30/13

  
David A. Alven