

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5318399

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	NEIL H. ORR	08/17/2017
<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>
	Application Number:	16316703
<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>	AR200073; 67397-548PUS1	
<b>NAME OF SUBMITTER:</b>	MATTHEW L. KOZIARZ	
<b>SIGNATURE:</b>	/Matthew L. Koziarz/	
<b>DATE SIGNED:</b>	01/10/2019	
<b>Total Attachments: 1</b>		
source=Signed_Assignment#page1.tif		

**ASSIGNMENT**  
**(Single Inventor)**

WHEREAS, I, Neil H. Orr (hereinafter referred to as Assignor), residing at, Simi Valley, California have invented new and useful improvements in:

**LIQUID PROPELLANT ROCKET ENGINE TURBOPUMP DRAIN**


which is a National application of PCT/US2017/043895 filed July 26, 2017, which claims priority to United States Provisional Application No. 62/368,480 filed July 29, 2016, which is set forth in an application in the United States executed on even date herewith:

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 Assignor 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 Assignor had this Assignment and sale not been made.

AND the Assignor hereby covenants and agrees that the Assignor 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 Assignor hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the said Assignee in accordance with this Agreement.

Dated: 8-17-2017

  
Neil H. Orr