

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William S. Brown</td> <td>07/18/2008</td> </tr> <tr> <td>Thomas M. Walczuk</td> <td>07/18/2008</td> </tr> <tr> <td>Rodney Noble</td> <td>07/18/2008</td> </tr> <tr> <td>Frederick Dodd</td> <td>07/18/2008</td> </tr> </tbody> </table>		Name	Execution Date	William S. Brown	07/18/2008	Thomas M. Walczuk	07/18/2008	Rodney Noble	07/18/2008	Frederick Dodd	07/18/2008
Name	Execution Date										
William S. Brown	07/18/2008										
Thomas M. Walczuk	07/18/2008										
Rodney Noble	07/18/2008										
Frederick Dodd	07/18/2008										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	Pratt & Whitney Rocketdyne, Inc.										
<b>Street Address:</b>	6633 Canoga Avenue										
<b>City:</b>	Canoga Park										
<b>State/Country:</b>	CALIFORNIA										
<b>Postal Code:</b>	91309										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12193679</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12193679						
Property Type	Number										
Application Number:	12193679										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(248)988-8363										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	248-988-8360										
<b>Email:</b>	bbeard@cgolaw.com										
<b>Correspondent Name:</b>	David L. Wisz										
<b>Address Line 1:</b>	400 West Maple Road, Suite 350										
<b>Address Line 4:</b>	Birmingham, MICHIGAN 48009										
<b>ATTORNEY DOCKET NUMBER:</b>	PA0008469U;67397-099PUS1										
<b>NAME OF SUBMITTER:</b>	David L. Wisz										

Total Attachments: 2  
 source=Signed\_assignment#page1.tif

**500623863**

**PATENT  
 REEL: 021405 FRAME: 0123**

**CH \$40.00 12193679**



Docket No. 67397-099PUS1;PA-0008469U

**ASSIGNMENT**  
**(Joint Inventors)**

WHEREAS, We **William S. Brown** residing at **640 Wilshire Place, Newbury Park, CA 91320**; **Thomas M. Walczuk** residing at **5621 Foxwood Dr., #G, Oak Park, CA 91377**; **Rodney Noble** residing at **15705 Newmont Avenue, Lancaster, CA 93535-7010** and **Frederick Dodd** residing at **6502 Joshua St., Oak Park, CA 91377-1308**, (hereinafter referred to as Assignors), have invented new and useful improvements in:

**LOW VELOCITY INJECTOR MANIFOLD FOR HYPERGOLIC ROCKET ENGINE**

which is set forth in an application in the United States executed on even date herewith:


AND WHEREAS, **Pratt & Whitney Rocketdyne, Inc.** (hereinafter referred to as Assignee), of **6633 Canoga Avenue, Canoga Park, CA 91309**, 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.

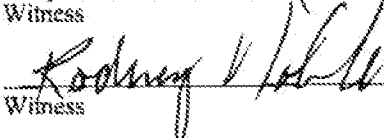
AND the Assignor hereby covenants and agrees that the Assignor will at any time upon the request and at the expense of the Assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, 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.

Docket No. 67397-099PUS1;PA-0008469U

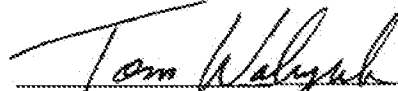
Dated: 7/18/2008

  
William S. Brown

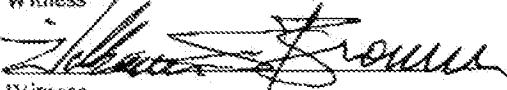
  
Witness

  
Witness

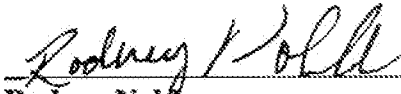
Dated: 7/18/2008


  
Thomas M. Walczuk

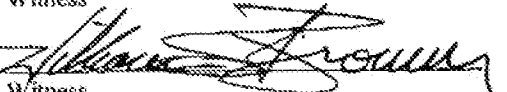
  
Witness

  
Witness

Dated: 7/18/2008


  
Rodney Noble

  
Witness

  
Witness

Dated: 7/18/08

  
Frederick Dodd

  
Witness

  
Witness

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

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