

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Joshua S. Mehling</td><td>03/09/2010</td></tr><tr><td>Robert O. Ambrose</td><td>07/23/2010</td></tr><tr><td>Lucien Q. Junkin</td><td>06/21/2010</td></tr><tr><td>Bryan Kristian Griffith</td><td>03/11/2010</td></tr><tr><td>Nicolaus A. Radford</td><td>03/11/2010</td></tr></tbody></table>		Name	Execution Date	Joshua S. Mehling	03/09/2010	Robert O. Ambrose	07/23/2010	Lucien Q. Junkin	06/21/2010	Bryan Kristian Griffith	03/11/2010	Nicolaus A. Radford	03/11/2010
Name	Execution Date												
Joshua S. Mehling	03/09/2010												
Robert O. Ambrose	07/23/2010												
Lucien Q. Junkin	06/21/2010												
Bryan Kristian Griffith	03/11/2010												
Nicolaus A. Radford	03/11/2010												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>United States of America as represented by the Administrator of the National Aeronautics and Space Administration</td></tr><tr><td>Street Address:</td><td>300 E Street, S.W.</td></tr><tr><td>City:</td><td>Washington</td></tr><tr><td>State/Country:</td><td>DISTRICT OF COLUMBIA</td></tr><tr><td>Postal Code:</td><td>20546</td></tr></table>		Name:	United States of America as represented by the Administrator of the National Aeronautics and Space Administration	Street Address:	300 E Street, S.W.	City:	Washington	State/Country:	DISTRICT OF COLUMBIA	Postal Code:	20546		
Name:	United States of America as represented by the Administrator of the National Aeronautics and Space Administration												
Street Address:	300 E Street, S.W.												
City:	Washington												
State/Country:	DISTRICT OF COLUMBIA												
Postal Code:	20546												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12564090</td></tr></tbody></table>		Property Type	Number	Application Number:	12564090								
Property Type	Number												
Application Number:	12564090												
CORRESPONDENCE DATA													
Fax Number: (281)483-6936 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 281-483-1013													
Email: jsc-patentof@mail.nasa.gov													
Correspondent Name: JSC Office of Patent Counsel													
Address Line 1: 2101 NASA Parkway													
Address Line 2: Mailcode AL													
Address Line 4: Houston, TEXAS 77058													
ATTORNEY DOCKET NUMBER:	MSC-24736-1												

501255854

PATENT  
REEL: 024803 FRAME: 0897

CH \$40.00 12564090

NAME OF SUBMITTER:

Kurt G. Hammerle

Total Attachments: 2

source=MSC-24736-1\_exec 430#page1.tif

source=MSC-24736-1\_exec 430#page2.tif



## Assignment to the Government (by Government Employee)

Title of Invention: ROTARY SERIES ELASTIC ACTUATOR

Inventor(s): Chris A. Ihrke, Donald R. Davis, Joshua S. Mehling,  
Robert O. Ambrose, Lucien Q. Junkin, Bryan Kristian Griffith,  
Nicolaus A. Radford, Adam H. Parsons, and Frank Noble Permenter.

NASA Case No.: MSC-24736-1 Application No.\*: 12/564090 Filing Date\*: 09/22/2009

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

\*4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

Joshua S. Mehling  
(Signature of Inventor)

3-9-10  
(Date Assignment Executed)

08/11/2009  
(Date Application Executed)

Joshua S. Mehling  
(Inventor's Typed Name)

2112 Goldfinch Lane, League City, TX 77573  
(Mailing Address - Including Country)

Robert O. Ambrose  
(Signature of Inventor)

7/23/2010  
(Date Assignment Executed)

08/12/2009  
(Date Application Executed)

Robert O. Ambrose  
(Inventor's Typed Name)

4023 N. Dawn Cypress Ct., Houston, TX 77059 USA  
(Mailing Address - Including Country)

Lucien Q. Junkin  
(Signature of Inventor)

6/21/2010  
(Date Assignment Executed)

08/12/2009  
(Date Application Executed)

Lucien Q. Junkin  
(Inventor's Typed Name)

8827 Camberbrook Court, Houston, TX 77089 USA  
(Mailing Address - Including Country)



National  
Aeronautics and  
Space  
Administration

Patent Application

## Assignment to the Government (by Government Employee)

Title of Invention: ROTARY SERIES ELASTIC ACTUATOR

Inventor(s): Chris A. Ihrke, Donald R. Davis, Joshua S. Mehling,  
Robert O. Ambrose, Lucien Q. Junkin, Bryan Kristian Griffith,  
Nicolaus A. Radford, Adam H. Parsons, and Frank Noble Permenter.

NASA Case No.: MSC-24736-1 Application No.\*: 12/564090 Filing Date\*: 09/22/2009

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

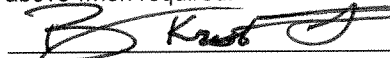
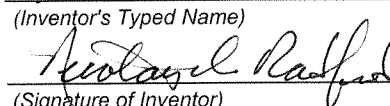
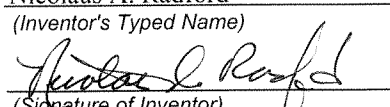
NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

\*4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

	3/11/2010	08/13/2009
(Signature of Inventor)	(Date Assignment Executed)	(Date Application Executed)
Bryan Kristian Griffith	855 FALLING SPRINGS LN, LEAGUE CITY, TX 77573	77573
(Inventor's Typed Name)	501 N. Sarah Deel No. 713, Webster, TX 77598 USA	36 3/11/10
	(Mailing Address - Including Country)	
	3/11/2010	08/11/2009
(Signature of Inventor)	(Date Assignment Executed)	(Date Application Executed)
Nicolaus A. Radford	4502 Avery Hollow Court, League City, TX 77573	
(Inventor's Typed Name)	(Mailing Address - Including Country)	
	3722 West Pine Brook Way, Webster, TX 77599 NR 3/11/10	
(Signature of Inventor)	(Date Assignment Executed)	(Date Application Executed)
	(Mailing Address - Including Country)	

NASA FORM 430 DEC 2000 PREVIOUS EDITIONS ARE OBSOLETE. (continued)

Page 2 of 2

PATENT

RECORDED: 08/06/2010

REEL: 024803 FRAME: 0900