

# 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 style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Philip W. Pagliara</td> <td>01/26/2010</td> </tr> <tr> <td>Michael A. Leal</td> <td>01/28/2010</td> </tr> <tr> <td>Justin C. Jenia</td> <td>01/28/2010</td> </tr> <tr> <td>Teryn Dalbello</td> <td>01/25/2010</td> </tr> <tr> <td>John M. Hitner</td> <td>01/27/2010</td> </tr> </tbody> </table>		Name	Execution Date	Philip W. Pagliara	01/26/2010	Michael A. Leal	01/28/2010	Justin C. Jenia	01/28/2010	Teryn Dalbello	01/25/2010	John M. Hitner	01/27/2010
Name	Execution Date												
Philip W. Pagliara	01/26/2010												
Michael A. Leal	01/28/2010												
Justin C. Jenia	01/28/2010												
Teryn Dalbello	01/25/2010												
John M. Hitner	01/27/2010												
<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>RAYTHEON COMPANY</td> </tr> <tr> <td><b>Street Address:</b></td> <td>870 Winter Street</td> </tr> <tr> <td><b>City:</b></td> <td>Waltham</td> </tr> <tr> <td><b>State/Country:</b></td> <td>MASSACHUSETTS</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>02451-1449</td> </tr> </table>		<b>Name:</b>	RAYTHEON COMPANY	<b>Street Address:</b>	870 Winter Street	<b>City:</b>	Waltham	<b>State/Country:</b>	MASSACHUSETTS	<b>Postal Code:</b>	02451-1449		
<b>Name:</b>	RAYTHEON COMPANY												
<b>Street Address:</b>	870 Winter Street												
<b>City:</b>	Waltham												
<b>State/Country:</b>	MASSACHUSETTS												
<b>Postal Code:</b>	02451-1449												
<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><b>Application Number:</b></td> <td>12696395</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	12696395								
Property Type	Number												
<b>Application Number:</b>	12696395												
<b>CORRESPONDENCE DATA</b>													
<p><b>Fax Number:</b> (480)385-5061  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p><b>Phone:</b> 480.385.5060</p> <p><b>Email:</b> scastillo@ifllaw.com</p> <p><b>Correspondent Name:</b> Ingrassia Fisher &amp; Lorenz, P.C.</p> <p><b>Address Line 1:</b> 7010 East Cochise Road</p> <p><b>Address Line 4:</b> Scottsdale, ARIZONA 85253-1406</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	085.0034 (09W102)												
<b>NAME OF SUBMITTER:</b>	Daniel R. Pote												

CH \$40.00 12696395

**501080241**

**PATENT**  
**REEL: 023873 FRAME: 0053**

Total Attachments: 4

source=20100129\_Assignment\_09W102#page1.tif

source=20100129\_Assignment\_09W102#page2.tif

source=20100129\_Assignment\_09W102#page3.tif

source=20100129\_Assignment\_09W102#page4.tif

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has/have invented:

**METHODS AND APPARATUS FOR A TANDEM DIVERT  
AND ATTITUDE CONTROL SYSTEM**

(hereinafter, "the invention") for which application for Letters Patent of the United States:

☒ [X] has been executed on even date herewith;

☐ [ ] was executed on \_\_\_\_\_;

☒ [X] was filed on January 29, 2010 and assigned U.S. Application Serial No. 12/696,395;

**AND WHEREAS**, Raytheon Company, 870 Winter Street, Waltham, MA 02451-1449 (hereinafter "ASSIGNEE"), and its successors, assigns, and legal representatives, is desirous of acquiring, and the ASSIGNOR is desirous of assigning and transferring the entire right, title, and interest therein;

**AND WHEREAS**, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, utility model, or like document;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in and to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international conventions, treaties and/or agreements to which the United States currently adheres and adheres to in the future and with all ancillary rights thereto, including the right to sue and recover for, and the right to profits or damages due or accrued, arising out of or in connection with, any and all past, present or future infringements of any such rights, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns, and legal representatives;

**AND ASSIGNOR** authorizes ASSIGNEE, its successors, assigns, and legal representatives, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of aforesaid application and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement;

**AND ASSIGNOR FURTHERMORE** authorizes ASSIGNEE, its successors, assigns, and legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained;

**AND ASSIGNOR HEREBY AGREES** to transfer, upon request of ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, a like interest in and to any related inventions and formal applications based thereon;

**AND ASSIGNOR AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the invention, any related inventions, any formal application based thereon, and any resulting patents, including executing any and all papers desired by ASSIGNEE for the filing and granting of formal applications, the perfecting of title in ASSIGNEE, and in enforcing any rights in the invention, any related inventions, and any formal application or patent based thereon.

This instrument is executed by, and shall be binding upon, ASSIGNOR, his heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE, its successors, assigns and legal representatives, or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

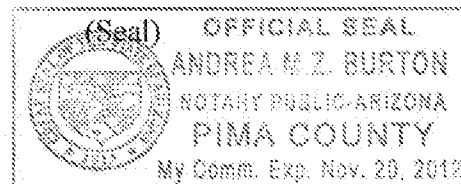
**EXECUTED** as of the date(s) written below by ASSIGNOR:

Philip W. Pagliara  
Philip W. Pagliara

Date: January 26, 2010

On this 26<sup>th</sup> day of JANUARY, 2009<sup>10</sup>, before me a notary public in and for the County of PIMA in the State of ARIZONA, appeared PHILIP W. PAGLIARA, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she signed, sealed and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Andrea M. Z. Burton  
My Commission Expires NOV. 20, 2012  
Notary Public

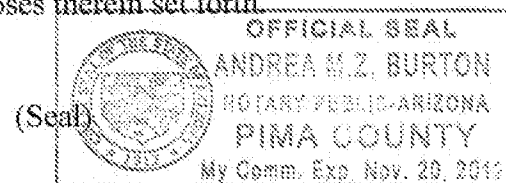


Michael A. Leal  
Michael A. Leal

Date: 1/28/10

On this 28<sup>th</sup> day of JANUARY, 2009<sup>10</sup>, before me a notary public in and for the County of PIMA in the State of ARIZONA, appeared MICHAEL A. LEAL, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Andrea M. Z. Burton  
My Commission Expires NOV. 20, 2012  
Notary Public

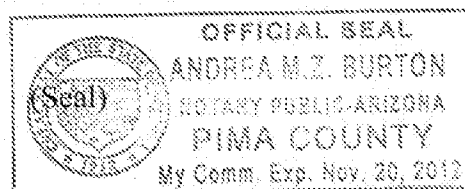


Justin C. Jenia  
Justin C. Jenia

Date: 1/28/10

On this 28<sup>th</sup> day of JANUARY, 2009<sup>10</sup>, before me a notary public in and for the County of PIMA in the State of ARIZONA, appeared JUSTIN C. JENIA, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Andrea M. Z. Burton  
My Commission Expires NOV. 20, 2012  
Notary Public

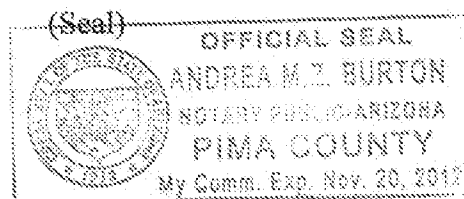


Teryn DalBello  
Teryn DalBello

Date: 1/25/2010

On this 25<sup>th</sup> day of JANUARY, 2009<sup>10</sup>, before me a notary public in and for the County of PIMA in the State of ARIZONA, appeared TERYN DALBELLO, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Andrea M. Z. Burton  
My Commission Expires NOV. 20, 2012  
Notary Public



John M. Hitner

John M. Hitner

Date: 27 JAN 2010

On this 27<sup>th</sup> day of JANUARY, 2009<sup>19</sup>, before me a notary public in and for the County of PIMA in the State of ARIZONA, appeared JOHN M. HITNER, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Andrea M. Z. Burton

My Commission Expires NOV. 20, 2012  
Notary Public

