

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<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>Richard W. Nichols</td> <td>04/20/2008</td> </tr> <tr> <td>Gilbert M. Shows</td> <td>04/14/2008</td> </tr> <tr> <td>Joel C. Roper</td> <td>04/14/2008</td> </tr> </tbody> </table>		Name	Execution Date	Richard W. Nichols	04/20/2008	Gilbert M. Shows	04/14/2008	Joel C. Roper	04/14/2008
Name	Execution Date								
Richard W. Nichols	04/20/2008								
Gilbert M. Shows	04/14/2008								
Joel C. Roper	04/14/2008								
RECEIVING PARTY DATA									
Name:	Raytheon Company								
Street Address:	870 Winter Street								
City:	Waltham								
State/Country:	MASSACHUSETTS								
Postal Code:	02451-1449								
PROPERTY NUMBERS Total: 1									
<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>12017916</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12017916				
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Application Number:	12017916								
CORRESPONDENCE DATA									
Fax Number:	(214)661-4559								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	214-953-6500								
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Correspondent Name:	BAKER BOTTS LLP								
Address Line 1:	2001 ROSS AVENUE								
Address Line 2:	6TH FLOOR								
Address Line 4:	DALLAS, TEXAS 75201-2980								
ATTORNEY DOCKET NUMBER:	004578.1629								
NAME OF SUBMITTER:	Angela L. Wilson								

Total Attachments: 4
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PATENT
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ASSIGNMENT

WHEREAS, I, the undersigned inventor, of residence as listed (or one of the undersigned joint inventors), having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Raytheon Company (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 870 Winter Street, Waltham, Massachusetts 02451-1449, desires to acquire my entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

ATTORNEY DOCKET NO.
004578.1629 (PD 07E007)

ASSIGNMENT

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title: **METHOD AND SYSTEM FOR
CONTROLLING THE DIRECTION OF AN
ANTENNA BEAM**

Signature of Joint Inventor: 
Inventor's Name: Richard W. Nichols

Residence (City, County, State) Manhattan Bch, Los Angeles County, CA

Date: 20 APRIL 2008

Date Application Executed: 04/20/2008

DAL01:993442

ATTORNEY DOCKET NO.
004578.1629 (PD 07E007)

ASSIGNMENT

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Title:

**METHOD AND SYSTEM FOR
CONTROLLING THE DIRECTION OF AN
ANTENNA BEAM**

Signature of Joint Inventor:
Inventor's Name:

Gilbert M. Shows
Gilbert M. Shows

Residence (City, County, State)

Plano, Collin County, Texas

Date:

4/14/2008

Date Application Executed:

04/14/2008

DAL01:993442

PATENT
REEL: 020860 FRAME: 0050

ATTORNEY DOCKET NO.
004578.1629 (PD 07E007)

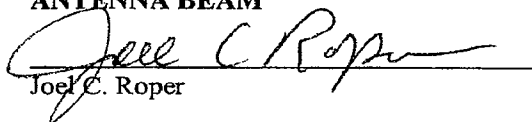
ASSIGNMENT

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Title:

**METHOD AND SYSTEM FOR
CONTROLLING THE DIRECTION OF AN
ANTENNA BEAM**

Signature of Joint Inventor:
Inventor's Name:


Joel C. Roper

Residence (City, County, State)

Plano, Collin County, TX

Date:

4-14-08

Date Application Executed:

04/14/2008

DAL01:993442