PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
William P. Hull Jr.	07/30/2010
George F. Barson	07/27/2010
James S. Wilson	07/27/2010
James M. Irion II	07/29/2010

RECEIVING PARTY DATA

Name:	Raytheon Company
Street Address:	870 Winter Street
City:	Waltham
State/Country:	MASSACHUSETTS
Postal Code:	02451-1449

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12851174	

CORRESPONDENCE DATA

Fax Number: (214)661-4559

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 214-953-6500

Email: esmarie.garland@bakerbotts.com

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: 004578.2061

NAME OF SUBMITTER: Esmarie A. Garland

Total Attachments: 5

501254341

PATENT REEL: 024796 FRAME: 0718 40.00 128511

CH \$40.00

source=0045782061Asgn#page1.tif source=0045782061Asgn#page2.tif source=0045782061Asgn#page3.tif source=0045782061Asgn#page4.tif source=0045782061Asgn#page5.tif

> PATENT REEL: 024796 FRAME: 0719

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, 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 the 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.

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

1

ATTORNEY DOCKET NO. 004578.2061

Date Application executed:

PATENT ASSIGNMENT

Title:	MULTI-ORIENTATION PHASED ANTENN ARRAY AND ASSOCIATED METHOD	ΙA
Signature of Inventor:	William P Hull g	_
Inventor's Name:	William P. Hull, Jr.	
Residence (City, County, State)	Fairview, Collin County, Texas	
Date Assignment executed:	7/30/200	

ATTORNEY DOCKET NO. 004578.2061

PATENT ASSIGNMENT

Title:

MULTI-ORIENTATION PHASED ANTENNA

ARRAY AND ASSOCIATED METHOD

Signature of Inventor:

George F. Barson

Inventor's Name:

Plano, Collin County, Texas

Residence (City, County, State)

7/27/2010

Date Assignment executed:

Date Application executed:

7/27/2010

3

DAL01:1130961.1

PATENT REEL: 024796 FRAME: 0722

PATENT ASSIGNMENT

ATTORNEY DOCKET NO. 004578.2061

Date Application executed:

Title:	MULTI-ORIENTATION ARRAY AND ASSOCIAT	PHASED ED METHOD	ANTENNA
Signature of Inventor:	James		
Inventor's Name:	James S. Wilson		
Residence (City, County, State)	Hurst, Tarrant Coun	ty, Texas	
Date Assignment executed:	7/27/10		
Date Application executed:	7/27/10		

ATTORNEY DOCKET NO. 004578.2061

PATENT ASSIGNMENT

Title:	MULTI-ORIENTATION PHASED ANTENNA ARRAYAND ASSOCIATED METHOD
Signature of Inventor:	James In. chion IT
Inventor's Name:	James M. Irion, II
Residence (City, County, State)	Allen, Collin County, Texas
Date Assignment executed:	7/29/2010
Date Application executed:	7/29/2010

5

RECORDED: 08/05/2010