PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

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CONVEYING PARTY DATA

Name	Execution Date
Michael G. Adlerstein	12/16/2010

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:	12971211

CORRESPONDENCE DATA

Fax Number: (781)401-9966

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

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 7814019988

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 mhw@dc-m.com

Correspondent Name: Daly, Crowley, Mofford & Durkee, LLP

Address Line 1: 354A Turnpike Street

Address Line 2: Suite 301A

Address Line 4: Canton, MASSACHUSETTS 02021-2714

ATTORNEY DOCKET NUMBER:	RTN2-231PUS
NAME OF SUBMITTER:	Donald F. Mofford

Total Attachments: 3

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> PATENT REEL: 025524 FRAME: 0833

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ASSIGNMENT

Whereas I, the undersigned, Michael G. Adlerstein, hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled Embedded Optical Waveguide Feed Structure For Radio Frequency Antenna Arrays, identified as Attorney Docket No. RTN2-231PUS and Client Case No. 10-1010-US-NP-DGM, which application was executed on December 16, 2010 and filed on December 17, 2010 and assigned Application No. 12/971,211. In the event that the execution date, filing date and/or Application No. are not entered above or are incorrect at the time I executed this document, and if such information is deemed necessary, I hereby authorize and request my attorneys request the attorneys at Daly, Crowley, Mofford & Durkee, LLP, 354A Turnpike Street, Suite 301A, Canton, MA 02021-2714, to insert above the filing date and/or Application No. of said application.

Whereas, Raytheon Company, a Delaware Corporation, having a place of business at 870 Winter Street, Waltham, Massachusetts 02451-1449, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation:

- 1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, reexamination and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent and any provisional applications from which priority is claimed in said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

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Atty. Dckt. No.: RTN2-231PUS Client Case No.: 10-1010-US-NP-DGM

4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

PATENT ASSIGNMENT Atty. Dckt. No.: RTN2-231PUS

Client Case No.: 10-1010-US-NP-DGM

In testimony of which we have each executed this Assignment as an instrument on the date indicated next to our name.

Dated: 12/16/2010

Michael G. Adlerstein

On this day of Dec., 2010, before me appeared Michael G. Adlerstein, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

First Witness Signature

R. MALLAVARP V

First Witness Printed Name

On this day of Dec., 2010, before me appeared Michael G. Adlerstein, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Robert Hallack

Second Witness Signature

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