

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>Bradley O. Hansen</td> <td>03/08/2012</td> </tr> <tr> <td>Michael R. Beylor</td> <td>03/08/2012</td> </tr> <tr> <td>Daniel R. Bruns</td> <td>03/08/2012</td> </tr> <tr> <td>Lloyd Cox</td> <td>03/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Bradley O. Hansen	03/08/2012	Michael R. Beylor	03/08/2012	Daniel R. Bruns	03/08/2012	Lloyd Cox	03/08/2012
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Bradley O. Hansen	03/08/2012										
Michael R. Beylor	03/08/2012										
Daniel R. Bruns	03/08/2012										
Lloyd Cox	03/08/2012										
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"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13415989</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13415989						
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Application Number:	13415989										
CORRESPONDENCE DATA											
Fax Number:	(612)339-3061										
Phone:	612-373-6900										
Email:	rsaunders@slwip.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Schwegman, Lundberg & Woessner, P.A.										
Address Line 1:	P.O. Box 2938										
Address Line 4:	Minneapolis, MINNESOTA 55416										
ATTORNEY DOCKET NUMBER:	11-1551 (1547.201US1)										
NAME OF SUBMITTER:	Ryan B. Saunders										
Total Attachments: 6											

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ASSIGNMENT

we, the undersigned, Bradley O. Hansen of Vail, AZ and Michael R. Beylor of Vail, AZ and Daniel R. Bruns of Tucson, AZ and Lloyd Cox of Tucson, AZ ("Assignor(s)"), have made certain inventions or discoveries (or both) set forth in a patent application entitled, *HIGH-FREQUENCY, HIGH-SPEED PRECISION DIGITAL BI-PHASE MODULATOR AND METHOD FOR BI-PHASE MODULATION*, identified as *Attorney Docket No. 11-1551 (1547.201US1)*, which application was filed on March 9, 2012 and assigned Application No. 13/415,989. In the event that the execution date, filing date and/or Application No. are not entered or are incorrect at the time Assignor(s) executed this document, Assignor(s) hereby authorize and request an attorney of Assignee to insert the information or make the correction.

RAYTHEON COMPANY is a Delaware Corporation having a place of business at 870 Winter Street, Waltham, MA 02451-1449, and which, together with its successors and assigns ("Assignee"), is desirous of acquiring the title, rights, benefits and privileges hereinafter recited.

For valuable consideration furnished by Assignee to Assignor(s), receipt and sufficiency of which Assignor(s) hereby acknowledge, Assignor(s) 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, any and all other patent applications (including without limitation utility models, provisionals, designs, plants and any other such intellectual property) on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination 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 patent applications and said Letters Patent and all rights to claim or sue for prior damages;

2. Authorize Assignee to file said patent applications in any or all countries on any or all of said inventions and discoveries in the name of Assignor(s) or in the name of Assignee or otherwise as Assignee may deem advisable, under any international conventions, international treaties, 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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4. Confirm that Assignor(s) 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

5. Bind heirs, legal representatives and assigns of Assignor(s), as well as Assignor(s), to do, upon Assignee's request, all acts reasonable to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by Assignor(s) or heirs, legal representatives and assigns of Assignor(s) 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 Assignor(s) relating to said inventions and discoveries or the history thereof; and to furnish Assignee, upon request, with any and all relevant documents, photographs, models, samples and other physical exhibits in control of Assignor(s) or in the control of heirs, legal representatives or assigns of Assignor(s).

Assignor(s) accept the terms of this Assignment as indicated by their signature below.

[Signatures on following pages]

PATENT ASSIGNMENT
Attorney Docket No. 11-1551 (1547.201US1)

Accepted by:

Dated: 3/8/12

Bradley O. Hansen
Bradley O. Hansen

Witnessed by:

Dated: 3/8/12

Cheryl M. Brogan
Witness

Dated: 3/8/12

Randy W. Copleman
Witness

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Attorney Docket No. 11-1551 (1547.201US1)

Accepted by:

Dated: 3/8/12

Michael R. Baylor
Michael R. Baylor

Witnessed by:

Dated: 3/8/12

Cheeryl M. Baggio
Witness

Dated: 3/8/12

Tandy W. Caplan
Witness

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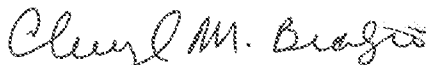
Accepted by:

Dated: 03/08/2012

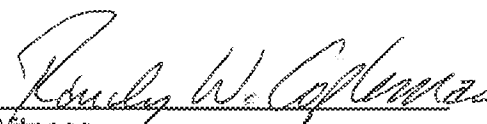

Daniel R. Bruns

Witnessed by:

Dated: 3/8/12


Witness

Dated: 3/8/12


Witness

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Attorney Docket No. 11-1551 (1547,201US1)

Accepted by:

Dated: 3/8/12

Lloyd Cox
Lloyd Cox

Witnessed by:

Dated: 3/8/12

Cleyst M. Brazier
Witness

Dated: 3/8/12

Randy W. Capleman
Witness