

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Delmar L. Barker</td> <td>01/22/2007</td> </tr> <tr> <td>Abram G. Young</td> <td>01/22/2007</td> </tr> <tr> <td>William R. Owens</td> <td>01/22/2007</td> </tr> </tbody> </table>		Name	Execution Date	Delmar L. Barker	01/22/2007	Abram G. Young	01/22/2007	William R. Owens	01/22/2007
Name	Execution Date								
Delmar L. Barker	01/22/2007								
Abram G. Young	01/22/2007								
William R. Owens	01/22/2007								
<b>RECEIVING PARTY DATA</b>									
<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>Application Number:</td> <td>11668600</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11668600				
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Application Number:	11668600								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(216)621-6165								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	216-621-1113								
<b>Email:</b>	cjacobs@rennerotto.com								
<b>Correspondent Name:</b>	Christopher B. Jacobs								
<b>Address Line 1:</b>	Renner, Otto, Boisselle & Sklar, LLP								
<b>Address Line 2:</b>	1621 Euclid Avenue, 19th Floor								
<b>Address Line 4:</b>	Cleveland, OHIO 44115								
<b>ATTORNEY DOCKET NUMBER:</b>	RAYTP0295US								
<b>NAME OF SUBMITTER:</b>	Christopher B. Jacobs								

Total Attachments: 2  
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OP \$40.00 11668600



**ASSIGNMENT**

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Delmar L. Barker, P.O. Box 85696, Tucson, AZ 85754  
Abram G. Young, 6765 N. Los Arboles Circle, AZ 85704  
William R. Owens, 9763 E. McAndrew Ct., Tucson, AZ 85748

hereby sell and assign to **RAYTHEON COMPANY**, a corporation of Delaware having a place of business at 870 Winter Street, Waltham, Massachusetts 02451-1449, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled:

**IMAGING SYSTEM AND METHOD USING A PHOTONIC BAND GAP ARRAY**

for which application for United States Letters Patent has been filed on 01/30/2007 under Serial No. 11/668,600, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in the United States and in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Attorney Docket No.: PD-05W220


I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this assignment document when that information becomes available.

Signed:

Dated:

  
Delmar L. Barker

1/22/07

  
Abram G. Young

1/22/07

  
William R. Owens

22 JAN 07