

**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>William F. Dixon</td> <td>03/23/2007</td> </tr> <tr> <td>Troy D. Fuchser</td> <td>03/24/2007</td> </tr> <tr> <td>Abraham L. Craig</td> <td>03/23/2007</td> </tr> </tbody> </table>		Name	Execution Date	William F. Dixon	03/23/2007	Troy D. Fuchser	03/24/2007	Abraham L. Craig	03/23/2007
Name	Execution Date								
William F. Dixon	03/23/2007								
Troy D. Fuchser	03/24/2007								
Abraham L. Craig	03/23/2007								
<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>11693066</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11693066				
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Application Number:	11693066								
<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>	2166211113								
<b>Email:</b>	kfafrak@rennerotto.com								
<b>Correspondent Name:</b>	Kenneth W. Fafrak								
<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>	RAYTP0304US								
<b>NAME OF SUBMITTER:</b>	Kenneth W. Fafrak								

OP \$40.00 11693066

Total Attachments: 4  
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**PATENT  
 REEL: 019158 FRAME: 0519**

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**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, the undersigned:

William F. Dixon, 8678 North Silver Sand Place, Tucson, AZ 85743  
Troy D. Fuchser, 2700 North Pantano Road, Tucson, AZ 85715  
Abraham L. Craig, 6300 South Sunrise Valley Drive, Tucson, AZ 85706

hereby sell and assign to Raytheon Company, a corporation of Delaware, having a place of business at 870 Winter Street, Waltham, MA 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

**TEMPORAL CW NULLER**

for which application for United States Letters Patent has been filed on 03-29-07 under Serial No. 11 693,066, or was executed by the undersigned on the date below and is being filed concurrently herewith, or is a provisional patent application filed on \_\_\_\_\_ under Serial No. \_\_\_\_\_ or concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions 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

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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.

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:

Date:

William F. Dixon  
William F. Dixon

03-23-07

**CERTIFICATE OF ACKNOWLEDGMENT**

State of ARIZONA

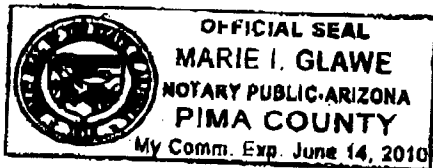
County of PIMA

On MARCH 23 2007 before me,  
MARIE I. GLAWE, Notary

Name and Title of Officer (e.g., "Jane Doe, Notary

Public) personally appeared  
WILLIAM F. DIXON  
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument



WITNESS my hand and official seal.

Marie I. Glawe  
Signature of Notary Public

Signed:

Troy D. Fuchser  
Troy D. Fuchser

Date:

3/24/2007

**CERTIFICATE OF ACKNOWLEDGMENT**

State of Arizona

County of Pima

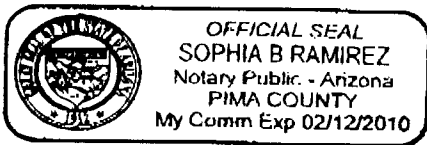
On March 24, 2007 before me, Sophia B Ramirez, Notary Public  
Troy D Fuchser

Name and Title of Officer (e.g., "Jane Doe, Notary

Public) personally appeared

Troy D Fuchser  
Name(s) of Signer(s)

personally known-to-me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Sophia B Ramirez  
Signature of Notary Public

Signed: Abraham L. Craig  
Abraham L. Craig

Date: 3/23/07

**CERTIFICATE OF ACKNOWLEDGMENT**

State of ARIZONA

County of PIMA

On MARCH 23 2007 before me,  
MARIE I. GLAWE, NOTARY

Name and Title of Officer (e.g. "Jane Doe, Notary

Public") personally appeared

ABRAHAM L. CRAIG  
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Marie I. Glawe  
Signature of Notary Public

