Form PTO-1595 (Rev. 03-09) OMB No. 0651-0027 (exp. 03/31/200 0.3 - 30	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office				
To the Director of the U.S. Pete 1035	ed documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)				
	Name: Applied Computational Technologies, LLC				
Richard Andrew Holland	Internal Address:				
Additional name(s) of conveying party(ies) attached?	s 🕅 No				
3. Nature of conveyance/Execution Date(s);	Street Address: 620 7th Street				
Execution Date(s)16, 2009					
Assignment Merger					
Security Agreement Change of Na	ame City: Windber				
Joint Research Agreement	State: PA				
Government Interest Assignment	Country: USA Zip: 15963				
Executive Order 9424, Confirmatory License					
Other	Additional name(s) & address(es) attached? Yes X No				
4. Application or patent number(s):	This document is being filed together with a new application. B. Patent No.(s)				
	D. Faterit NO.(S)				
	7,197,404				
	nbers attached? Yes No				
<ol><li>Name and address to whom correspondent concerning document should be mailed:</li></ol>	ce 6. Total number of applications and patents involved: 1				
Name: <u>McQuaide, Blasko, Fleming &amp; Faulkner, Inc.</u>					
Internal Address: Livinia N. Jones, Esquire	<b>7. Total fee</b> (37 CFR 1.21(h) & 3.41) \$40.00				
	X Authorized to be charged to deposit account				
Street Address: B11 University Drive					
	None required (government interest not affecting title)				
City: <u>State College</u>	8. Payment Information				
State: PA Zip: 16801					
Phone Number: <u>814-238-4926</u>					
Fax Number: <u>B14-234-5620</u>	Deposit Account Number 50-1740				
Email Address: Injones@mgblaw.com	Authorized User Name Livinia N. Jones				
9. Signature:					
Signatu	March 26, 2009 Date				
Livinia N. Jones, Esquire	Total number of pages including cover				
Name of Person Signing	sheet, attachments, and documents:				

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

03/27/2009 DBYRNE 00000055 501740 7197404 01 FC:8021 40.00 DA

PATENT REEL: 022473 FRAME: 0785

### INTELLECTUAL PROPERY ASSIGNMENTS

Docket No. <u>120478-1</u>

#### ASSIGNMENT

FOR VALUE RECEIVED, and in consideration of the sum of \$1.00 and other good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, I, Richard Andrew Holland sell, assign and transfer unto Applied Computational Technologies, LLC, as assignee, and its successors, assigns and legal representatives, the entire worldwide right, title and interest in and to all subject matter invented by me and disclosed or claimed in the invention entitled:

### "COMPUTATION OF RADIATING PARTICLE AND WAVE DISTRIBUTIONS USING A GENERALIZED DISCRETE FIELD CONSTRUCTED FROM REPRESENTATIVE RAY SETS"

and which is found in:

U.S. Patent No. 7,197,404 International Patent Application No. PCT/US05/05835 Australia Patent Application No. 2005220732 Canadian Patent Application No. 2,557,888 European Patent Application No. 05714004.8 Indian Patent Application No. 1175/MUMNP/2006 Japanese Patent Application No. 2007-501833 and any legal equivalents thereof in a foreign country, including the right to claim priority and

in and to any and all continuations, continuations-in-part, divisions, reissues, renewals, extensions, substitutions, additions or reexaminations of such applications and any U.S. or foreign patents issuing thereon; and in and to any and all corresponding international and foreign applications for Letters Patent and any foreign patents issuing thereon; and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter; together with all claims for damages by reason of future, present and past infringement, with the right to suc for and collect the same for assignee's use and on behalf of assignce's successors, assigns and legal representative.

L'request that any and all patents, registrations and similar protection for said inventions be issued to said assignce, its successors, assigns and legal representatives, or to such nominees as it may designate.

I agree that, when requested, I will, without charge to said assignce but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for said inventions in any and all countries and for vesting title thereto in said assignce, its successors, assigns and legal representatives or nominees.

I authorize and empower said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

{00960914;2}

PATENT REEL: 022473 FRAME: 0786 I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with said assignce, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Name: Richard Andrew Holland

Edu Jule - 1/10/09

Commonwealth of Pennsylvania County of <u>Appresent</u>

Before me this <u>16</u> the day of <u>berugge</u>, 2009, personally appeared the above named individual, to me known to be the person who is described in, and who executed the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes therein expressed.

His ncipal Simelan

COMMONWEALTH OF PENNSYLVANIA
Notarial Seel
Nancy A. Walker, Notary Public
Soro, Somerset County
Expires June 14, 2009
Mamper Second Interior

100960014:2 }

PATENT REEL: 022473 FRAME: 0787

# **MCQUAIDE BLASKO**

811 University Drive, State College, Pennsylvania 16801-6699 Additional Offices in Hershey and Hollidayaburg

## **FACSIMILE TRANSMITTAL**

To:	Assignment Recordation Services U.S. Patent and Trademark Office	s Fax: Phone:	703-308-7124
From: Client-Matter:	Livinia N. Jones, Esquire 120478-120478	Date: No. of Pages: (incl. cover)	March 26, 2009 4
In Re:	Recordation of Assignment U.S. Patent No. 7,197,404		
	Original will not fo	ollow	

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