

07-03-2003



PATENT

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Name	Execution Date		
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Mail documents to be recorded with required cover sheet(s) information to: Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 014221 FRAME: 0630

Correspondent Name and Address

Area Code and Telephone Number 617-248-7000

Name Patent Administrator

Address (line 1) Testa, Hurwitz & Thibault, LLP

Address (line 2) High Street Tower

Address (line 3) 125 High Street

Address (line 4) Boston, MA 02110

Pages Enter the total number of pages of the attached conveyance document including any attachments. 2

Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

Table with 6 columns for application and patent numbers. First cell contains '10/373,163'.

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned. PCT [ ] PCT [ ] PCT [ ] PCT [ ] PCT [ ] PCT [ ]

Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

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Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account) Deposit Account Number # 20-0531

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Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Jamie H. Rose

Name of Person Signing

Handwritten signature of Jamie H. Rose

Signature

June 30, 2003

Date

**ASSIGNMENT**

WHEREAS, I, Daniel Goodman, have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

**METHODS AND APPARATUS FOR CALIBRATION AND METROLOGY FOR AN INTEGRATED RF GENERATOR SYSTEM**

and identified by

Attorney Docket No. ASX-059, and/or executed by me on even date herewith and about to be filed in the United States Patent Office;

Serial No. 10/373,163 filed in the United States Patent Office on February 24, 2003; and

WHEREAS, Applied Science & Technology, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 90 Industrial Way, Wilmington, Massachusetts 01887-4610, desires to acquire an interest therein, in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal

representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, I hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, I hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of my execution of this assignment;

AND, I do hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

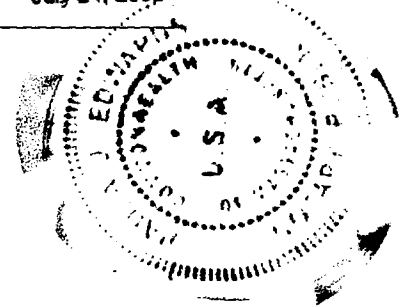
IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal on the date set forth below.

Inventor: *Daniel Goodman*  
Daniel Goodman

Commonwealth of Massachusetts )  
County of ) ss

Subscribed and sworn to before me, by the above-named Daniel Goodman this 14 day of February, 2003.

*Paula J. Edwards* Paula J. Edwards  
Notary Public Notary Public  
My Commission Expires July 24, 2009  
My Commission Expires: \_\_\_\_\_



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