

FORM PTO-1595  
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UPN-3102

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

100665995

To The Honorable Commissioner of Patent  
thereof.

Attached original documents or copy

MAR 3-9-98

1. Name of conveying party(ies):

Oded Gonen, Gadi Goelman, John S. Leigh and  
Lizann Bolinger

Additional name(s) of conveying party(ies)  
attached? ( ) YES (X) NO

3. Nature of Conveyance:

- Assignment ( ) Merger
- Security Agreement
- Change of Name
- Other:

Execution Date: July 31, 1997 and August 1, 5 and  
22, 1997

2. Name and address of receiving party(ies):

Name: The Trustees of the University of Pennsylvania  
Internal Address:  
3700 Market Street  
Philadelphia, PA 19104

Street Address:  
3700 Market Street

City Philadelphia

State PA ZIP 19104

Additional name(s) & address attached? ( ) YES (X) NO

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 08/843,030; filed 4/11/97

B. Patent No.(s)

Additional numbers attached? ( ) YES (X) NO

5. Name and address of party to whom correspondence  
concerning documents should be mailed:

Name: Michael P. Dunnam, Esq.  
Internal Address: WOODCOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP  
One Liberty Place - 46th Floor  
Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP  
One Liberty Place - 46th Floor  
1650 Market Street

Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved:

One (1)

7. Total fee (37 CFR 3.41):.....\$40.00

- Enclosed
- Authorized to be charged to Deposit Account  
Number 23-3050

8. Please charge any deficiency or credit any  
overpayment to Deposit Account Number 23-3050

DO NOT USE THIS SPACE

9. 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.

Michael P. Dunnam/32,611  
Name of Person Signing/Reg. No.

*Michael P. Dunnam*  
Signature

March 6, 1998  
Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

PATENT

REEL: 9058 FRAME: 0369

PATENT  
Joint Inventors

DOCKET NO.: UPN-3102

(Pending Application;  
Serial No. Known)

A S S I G N M E N T

WHEREAS, we Oded Gonen, Gadi Goelman, John S. Leigh and Lizann Bolinger, hereinafter referred to as the assignors, residing respectively at 7605 Oak Lane Road, Cheltenham, PA 19012, 56 Kinor Street, Rosh Haain, Israel, 345 East Gowen Avenue, Philadelphia, PA 19119 and 8138 Germantown Avenue, Philadelphia, PA 19118 are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. 08/843,030, filed April 11, 1997, entitled THREE-DIMENSIONAL LOCALIZED PROTON NMR SPECTROSCOPY USING A HYBRID OF ONE-DIMENSIONAL HADAMARD WITH TWO-DIMENSIONAL CHEMICAL SHIFT IMAGING; and

WHEREAS, The Trustees of the University of Pennsylvania, hereinafter referred to as the assignee, of Philadelphia, Pennsylvania, a non-profit corporation of Pennsylvania, U.S.A., is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as

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**Joint Inventors**

may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Oded Gonen (L.S.)  
Oded Gonen

Gadi Gochman G 132 (L.S.)  
Gadi Gochman

J. S. Leigh (L.S.)  
John S. Leigh

Lizann Bolinger (L.S.)  
Lizann Bolinger

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Joint Inventors

WHERE ALL INVENTORS SIGN BEFORE THE SAME NOTARY:]

\_\_\_\_\_  
: SS  
COUNTY OF \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came the above named \_\_\_\_\_ to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

[WHERE INVENTORS SIGN BEFORE SEPARATE NOTARIES:]

NOTARIAL SEAL HOLLY J. SIBURKIS, Notary Public City of Philadelphia, Philadelphia County My Commission Expires May 21, 2001	:
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COUNTY OF \_\_\_\_\_: SS

On this 26 day of July, 1997, before me personally came the above named Oded Gonen to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Holly J. Siburkis  
\_\_\_\_\_  
Notary Public

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Pennsylvania :  
COUNTY OF Philadelphia: SS

On this 1st day of August, 1997, before me personally came the above named John S. Leigh to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Delecia Williams  
Notary Public

Pennsylvania :  
COUNTY OF Philadelphia: SS

On this 5th day of August, 1997, before me personally came the above named Lizann Bolinger to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Delecia Williams  
Notary Public

Pennsylvania :  
COUNTY OF Philadelphia: SS

On this 22nd day of August, 1997, before me personally came the above named Gadi Goelman to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Delecia Williams  
Notary Public

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