

02-05-2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

101604711

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☐ Resubmission (Non-Recordation)  
 Document ID #   
☐ Correction of PTO Error  
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## Conveyance Type

- ☒ Assignment ☐ Security Agreement  
☐ License ☐ Change of Name  
☐ Merger ☐ Other

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- ☐ Departmental File ☐ Secret File

## Conveying Party(ies)

- ☒ Mark if additional names of conveying parties attached

Name (line 1) John D. G. Rather

 Execution Date  
 Month Day Year  
 11 16 00
Name (line 2) 

## Second Party

Name (line 1) H. John Caulfield

 Execution Date  
 Month Day Year  
 11 16 00
Name (line 2) 

## Receiving Party

- ☐ Mark if additional names of receiving parties attached

Name (line 1) Barbara Ann Karmanos Cancer Institute

- ☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) 

Address (line 1) Wertz Clinical Cancer Center

Address (line 2) 4100 John R

Address (line 3) Detroit

MI

48201

City

State/Country

Zip Code

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) 

## FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:

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01/31/2001 MMARMOL 00000063 201430 09650306

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PATENT  
REEL: 011478 FRAME: 0170

**Correspondent Name and Address**

Area Code and Telephone Number

(303) 571-4000

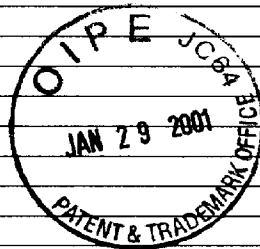
Name Patrick M. Boucher (Reg. No. 44,037)

Address (line 1) Townsend and Townsend and Crew LLP

Address (line 2) Two Embarcadero Center - 8th Floor

Address (line 3) San Francisco, CA 94111-3834

Address (line 4)



**Pages**

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

# 9

**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)**

09/650,306

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

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

PCT

PCT

PCT

PCT

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**Number of Properties**

Enter the total number of properties involved.

# One

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed ☐

Deposit Account ☒

**Deposit Account**

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 20-1430

Authorization to charge additional fees:

Yes ☒

No ☐

**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.*

Patrick M. Boucher (Reg. No. 44,037)

January 25, 2001

**Name of Person Signing**

**Signature**

**Date**

**RECORDATION FORM COVER SHEET  
CONTINUATION  
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U.S. Department of Commerce  
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**PATENT**

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

**Enter additional Conveying Parties**

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)



**Receiving Party(ies)**

☐ Mark if additional names of receiving parties attached

**Enter additional Receiving Party(ies)**

Name (line 1)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

**Application Number(s) or Patent Number(s)**

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

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**Patent Number(s)**

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**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, John D.G. Rather, of 330 Lincoln Road, Grosse Pointe, MI, 48230, H. John Caulfield, of 4626 Delina Road, Cornersville, TN 37047, Richard D. Doolittle, of 6691 MacArthur Boulevard, Bethesda, MD 20816, Glenn W. Zeiders, of 2803 Downing Court, Huntsville, AL 35801, and Gregory W. Auner, of 16284 Aldrich Court, Livonia, MI 48154, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: REAL-TIME THREE-DIMENSIONAL  
ACOUSTOELECTRONIC IMAGING AND  
CHARACTERIZATION OF OBJECTS

Date of execution of Declaration:	John D.G. Rather	November 16, 2000
	H. John Caulfield	November 16, 2000
	Richard D. Doolittle	November 16, 2000
	Glenn W. Zeiders	November 16, 2000
	Gregory W. Auner	January 25, 2001

Filing Date: August 29, 2000

Application No.: 09/650,306; and

WHEREAS, Barbara Ann Karmanos Cancer Institute, Wertz Clinical Cancer Center, 4100 John R, Detroit, MI 48201, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

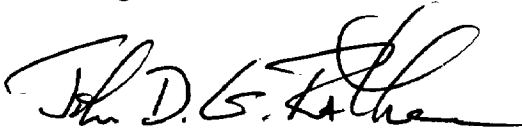
For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 11-16-2000



John D.G. Rather

STATE OF Michigan )  
COUNTY OF Wayne )

ss.



On Nov. 16, 2000, before me, Leslie Trimble,  
personally appeared John D.G. Rather, personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

**LESLIE M. TRIMBLE**  
Notary Public, Oakland County, MI  
My Commission Expires July 8, 2002

  
NOTARY PUBLIC

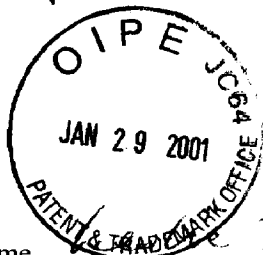
My Commission Expires: 07-08-02

Dated: 16 Nov 00

H. John Caulfield  
H. John Caulfield

STATE OF Michigan )  
COUNTY OF Wayne )

ss.



On Nov. 16, 2000, before me, Leslie M. Trumble,  
personally appeared H. John Caulfield, personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

LESLIE M. TRUMBLE  
Notary Public, Oakland County, MI  
My Commission Expires July 8, 2002

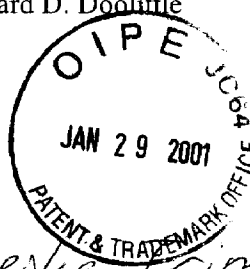
Leslie M. Trumble  
NOTARY PUBLIC

My Commission Expires: 07-08-02

Dated: 11/16/00

  
Richard D. Doolittle

STATE OF Michigan )  
COUNTY OF Wayne ) ss.



On Nov. 16, 2000, before me, Leslie M. Trimble,  
personally appeared Richard D. Doolittle, personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.


WITNESS my hand and official seal.

**LESLIE M. TRIMBLE**  
Notary Public, Oakland County, MI  
My Commission Expires July 8, 2002

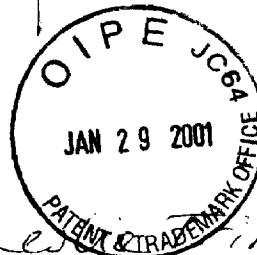
  
NOTARY PUBLIC

My Commission Expires: 07-08-02

Dated: 11/16/00

  
\_\_\_\_\_  
Glenn W. Zeiders

STATE OF Michigan )  
COUNTY OF Washtenaw ) ss.



On Nov. 16, 2000, before me, Leslie M. Trimble,  
personally appeared Glenn W. Zeiders, personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

**LESLIE M. TRIMBLE**  
Notary Public, Oakland County, MI  
My Commission Expires July 8, 2002

  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: 07-08-02



Assignment  
Attorney Docket No.: 20222-000300US  
Page 6

Dated: 0/25/01  
Gregory W. Auner

STATE OF Michigan )  
COUNTY OF Wayne ) ss.

On January 25, 2001, before me, Carol S. Heckmann  
personally appeared Gregory W. Auner, personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
NOTARY PUBLICMy Commission Expires: May 1, 2002

DE 7026759 v1

CAROL S. HECKMANN  
NOTARY PUBLIC - MICHIGAN  
MY COMMISSION EXPIRES 05/01/2002