



102750673

PATENTS ONLY

COVER SHEET

RG

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Robert L. Galloway, Jr. **9.11.03**
 William C. Chapman
 James D. Stefans
 Alan J. Herline
 Michael I. Miga
 David M. Cash
 Tuhin K. Sinha

2. Name and address of receiving party(ies)

Vanderbilt University
 305 Kirkland Hall
 Nashville, Tennessee 37240
 United States of America

A Tennessee Corporation.

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other
 Correction of previously recorded document
 Reel Frame No.

Additional name(s) & address(es) attached? Yes No

Execution Date: September 3, 2003 (RLG);
May 9, 2003 (WCC); April 11, 2003 (JDS);
April 3, 2003 (AJH); April 3, 2003 (MIM);
April 4, 2003 (DMC); & April 16, 2003 (TKS).

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)
 10/418,187

B. Patent No.(s)

Additional numbers attached? Yes No

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

CLARK A. JABLON
 AKIN GUMP STRAUSS HAUER & FELD LLP
 One Commerce Square
 2005 Market Street, Suite 2200
 Philadelphia, PA 19103
 Direct Dial: (215) 965-1293
 E-mail: cjablon@akingump.com

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41).....\$40

Check enclosed
 Authorization to charge deficient fees or credit any overpayment to Deposit Account.

8. Deposit Account Number: 50-1017 (209823.0025)

(Attach duplicate copy of this page if paying by deposit account)

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.

CLARK A. JABLON Clark Jablon May 18, 2004
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 10



09-17-2003

Attorney Docket No.: 9823-18U1

SD



102553612

COVER SHEET

PATENTS ONLY

941-03

Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Robert L. Galloway, Jr. William C. Chapman James D. Stefansic Alan J. Herline Michael I. Miga David M. Cash Tuhin K. Sinha</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Vanderbilt University 305 Kirkland Hall Nashville, Tennessee 37240 United States of America</p> <p>(A Tennessee Corporation)</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other <input type="checkbox"/> Correction of previously recorded document Reel Frame No.</p> <p>Execution Date: <u>September 3, 2003 (RLG);</u> <u>May 9, 2003 (WCC); April 11, 2003 (JDS);</u> <u>April 3, 2003 (AJH); April 31, 2003 (MIM);</u> <u>April 4, 2003 (DMC); & April 16, 2003 (TKS).</u></p>	<p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

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:

<p>A. Patent Application No.(s) <u>10/418,187</u></p>	<p>B. Patent No.(s)</p>
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>CLARK A. JABLON AKIN GUMP STRAUSS HAUER & FELD LLP One Commerce Square 2005 Market Street, Suite 2200 Philadelphia, PA 19103 Direct Dial: (215) 965-1293 E-mail: cjablons@akingump.com</p>	<p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 CFR 3.41).....\$40</p> <p><input checked="" type="checkbox"/> Check enclosed <input checked="" type="checkbox"/> Authorization to charge deficient fees or credit any overpayment to Deposit Account.</p> <p>8. Deposit Account Number: 50-1017 (209823.0025)</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true copy of the original document.

<p><u>CLARK A. JABLON</u> Name of Person Signing</p>	<p><u>Clark Jablon</u> Signature</p>	<p><u>September 8, 2003</u> Date</p>
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Total number of pages including cover sheet, attachments, and documents: 10

Pat. Ref: 05/21/2004 NUMBER 007436300
NAME/NUMBER 1017-11687 \$40.00 CR
FI: 9204

09/16/2003 J7ALLAME 00000010 10418187

01 FC:002 5240872 v1 40.00 CP

Equivalent to Form PTO-1595

PATENT
REEL: 015345 FRAME: 0517

ASSIGNMENT

WHEREAS, we, Robert L. Galloway, Jr., William C. Chapman, James D. Stefansic, Alan J. Herline, Michael I. Miga, David M. Cash & Tuhin K. Sinha, with respective post office addresses and citizenships of:

1. 4509 Heath Road
Nashville, Tennessee 37221
Citizen of the United States of America;
2. 415 Ellendale Avenue
Nashville, Tennessee 37205
Citizen of the United States of America;
3. 2107 Acklen Avenue
Apartment 7
Nashville, Tennessee 37212-3528
Citizen of the United States of America;
4. 4922 Salem Drive
Nashville, Tennessee 37211
Citizen of the United States of America;
5. 3013 Helmsdale Lane
Franklin, Tennessee 37069
Citizen of the United States of America;
6. 2107 Acklen Avenue
Apartment 7
Nashville, Tennessee 37212
Citizen of the United States of America; and
7. 2008 Convent Place
Nashville, Tennessee 37212
Citizen of the United States of America,

hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

**METHOD AND APPARATUS FOR COLLECTING AND PROCESSING PHYSICAL
SPACE DATA FOR USE WHILE PERFORMING IMAGE-GUIDED SURGERY**

for which we have executed a United States patent application, Application No. 10/418,187, filed April 16, 2003,

ASSIGNORS authorize **ASSIGNEE** or **ASSIGNEE's** representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, Vanderbilt University, a Tennessee corporation having a place of business at 305 Kirkland Hall, Nashville, Tennessee 37240, hereinafter generally referred to as "**ASSIGNEE**", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned **ASSIGNORS**, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named **ASSIGNEE**, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

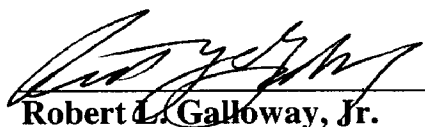
in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named **ASSIGNEE**, for **ASSIGNEE's** own use and benefit, and for **ASSIGNEE's** legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned **ASSIGNORS** had this assignment and sale not been made; and for the aforesaid consideration **ASSIGNORS** hereby covenant, agree and undertake to execute, whenever requested by the above-named **ASSIGNEE**, all patent applications, assignments, lawful oaths and any other papers which **ASSIGNEE** may deem necessary or desirable for securing to **ASSIGNEE** or for maintaining for **ASSIGNEE** all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned **ASSIGNORS**.

9/3/2003

(Date)


Robert L. Galloway, Jr.

(Date)

William C. Chapman

(Date)

James D. Stefansic

(Date)

Alan J. Herline

(Date)

Michael I. Miga

(Date)

David M. Cash

(Date)

Tuhin K. Sinha

STATE OF

:

: ss

COUNTY OF

:

Before me, a notary public in and for the State and County aforesaid, on this 3rd day of September, 2003, personally appeared **Robert L. Galloway, Jr.**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.


Notary Public
My Commission Expires SEPT. 30, 2000

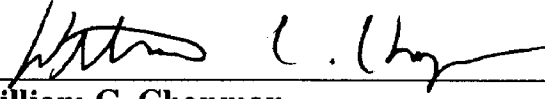
My Commission Expires:

(Date)

MAY 9, 2003

(Date)

Robert L. Galloway, Jr.



William C. Chapman

(Date)

James D. Stefansic

(Date)

Alan J. Herline

(Date)

Michael I. Miga

(Date)

David M. Cash

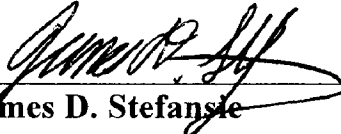
(Date)

Tuhin K. Sinha

(Date)

4/11/03

William C. Chapman



(Date)

4/3/2003

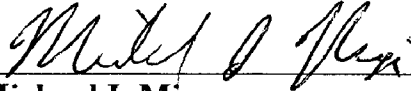
James D. Stefanski



(Date)

4/31 2003

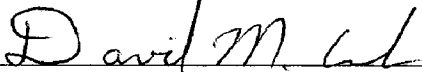
Alan J. Herline



(Date)

4/4/2003

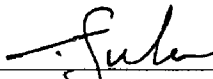
Michael I. Miga



(Date)

4/16/2003

David M. Cash



(Date)

Tuhin K. Sinha

STATE OF *Missouri* :
 : SS
COUNTY OF *St Louis* :

Before me, a notary public in and for the State and County aforesaid, on this 9th day of May, 2003, personally appeared **William C. Chapman**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Debi Swap
Notary Public

DEBI SWAP
Notary Public, State of Missouri
St. Louis
My Commission Expires Dec 14, 2004

My Commission Expires: 12/14/2004

STATE OF :
 : SS
COUNTY OF :

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2003, personally appeared **James D. Stefansic**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Public

My Commission Expires:

STATE OF

:
: SS

COUNTY OF

:

Before me, a notary public in and for the State and County aforesaid, on this _____ day of _____, 2003, personally appeared **William C. Chapman**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Notary Public

My Commission Expires:

STATE OF *Tennessee*

:
: SS

COUNTY OF *Davidson*

:

Before me, a notary public in and for the State and County aforesaid, on this *11* day of *April*, 2003, personally appeared **James D. Stefansic**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Michelle F. Richards
Notary Public

My Commission Expires: *May 30, 2004*

STATE OF *Tennessee*

:

COUNTY OF *Davidson*

: SS

:

Before me, a notary public in and for the State and County aforesaid, on this *3rd* day of *APRIL*, 2003, personally appeared **Alan J. Herline**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Michelle F. Richards

Notary Public

My Commission Expires: *May 30, 2004*

STATE OF *Tennessee*

:

COUNTY OF *Davidson*

: SS

:

Before me, a notary public in and for the State and County aforesaid, on this *3rd* day of *APRIL*, 2003, personally appeared **Michael I. Miga**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Michelle F. Richards

Notary Public

My Commission Expires: *May 30, 2004*

STATE OF *Tennessee*

:

: SS

COUNTY OF *Davidson*

:

Before me, a notary public in and for the State and County aforesaid, on this *4th* day of *APRIL*, 2003, personally appeared **David M. Cash**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Michelle F. Richards
Notary Public

My Commission Expires: *May 30, 2004*

STATE OF *Tennessee*

:

: SS

COUNTY OF *Davidson*

:

Before me, a notary public in and for the State and County aforesaid, on this *16th* day of *APRIL*, 2003, personally appeared **Tuhin K. Sinha**, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

Michelle F. Richards
Notary Public

My Commission Expires: *May 30, 2004*